



**Hewlett Packard**  
Enterprise

# SUSE Linux 12.5 Supplement for Service Pack for ProLiant 2019.12.0 Release Notes

Published  
January 2020  
[Initial Version](#)

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### Document History:

Released	Description
January 2020	Initial Version

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# Overview

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A Service Pack for ProLiant (SPP) Supplement is a bundle containing software and/or firmware components with SUM as the deployment tool. It may include support for a new operating system update or functionality that is not included in the SPP but works with the components in the SPP. The software and firmware included in the Supplement will provide support for functionality that is required outside a normal SPP release cycle. Supplements allow HP to deliver support when it is needed so customers do not have to wait on a full SPP's availability.

Each SPP Supplement's version number will match the version of its corresponding SPP. Supplement Release Notes will be available and will include information on the components in the bundle. If the Supplement's contents include Linux components, the components will also be available on the Linux Software Delivery Repository (SDR). Once released, the functionality of the SPP Supplement contents is included in the next available SPP.

Hot Fixes associated with an SPP may work with an SPP Supplement. You must review the Hot Fix to verify if it has support for the operating system that is supported in the Supplement. For more information on SPP Hot Fixes, please see the SPP Release Notes located on the [SPP Information Library page](#).

This Supplement is the SUSE Linux 12.5 Supplement for Service Pack for ProLiant 2019.12.0 and provides SUSE LINUX 12.5 support for HPE ProLiant products. It is a SUSE LINUX 12.5 only release and is designed to work with SPP 2019.12.0.

For more information on which servers are supported with SUSE LINUX 12.5, please visit our OS Support Site at: <http://www.hpe.com/servers/ossupport>.

Product Name	Comment
<b>SUSE Linux 12.5 Supplement for Service Pack for ProLiant 2019.12.0</b>	<b>Bundle containing software components Filename: supspp-2019.12.sles12.5.en.tar.gz</b>

## Update recommendation

Optional - Users should update to this version if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced functionality provided by this version.

## Alignment

Service Pack for ProLiant 2019.12.0

# Summary of Changes

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## Important Notes

When the terms, Supplement, Service Pack for ProLiant or SPP are used throughout this document, they refer to all of the deliverables in the Table in the Overview Section unless explicitly stated.

**⚠ Before deploying any components to a system, be sure that a recent backup of the system is available in the event the deployment procedure fails.**

## Release Summary

The summary of this SUSE Linux 12.5 Supplement for Service Pack for ProLiant release is:

Added support for SUSE Linux 12.5.

You may choose to use the drivers delivered with the SUSE LINUX 12.5 distribution instead of those found in this Supplement. The initial release of the distribution drivers may not contain all of the HPE value added features at this time. These features will be added in a future release.

## Compatibility

This Supplement corresponds with SPP 2019.12.0.

SUM and all components delivered in this Supplement to the Service Pack for ProLiant (SPP) are tested together and meet the dependencies of the other components in the Service Pack for ProLiant.

Systems using software and firmware components delivered with the following products should be able to easily migrate to the components in this SPP:

Product	Version
<b>Service Pack for ProLiant</b>	<b>2019.12.0</b>
	<b>2019.09.0</b>
	<b>2019.03.0</b>

## Support


HPE supports each SPP version for 12 months. Customers may choose to update their SPP from an earlier version to this version as long as the earlier version is within its 12 month support period. This means that customers may directly update their SPP by skipping intermediate releases within the 12 month support period. See the table in the Compatibility section for details on the components contained in earlier SPPs that can migrate to this SPP.

The support period for this Supplement aligns with the support period with its corresponding SPP 2019.12.0.

## Prerequisites

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### Running SUM on Linux

** Before deploying software updates on a target system, be sure that a recent backup of the target system is available in the event the deployment procedure fails.**

To successfully deploy SUM on remote target systems based on a Linux operating system, the following must be available:

- libcrypt.so
- libcrypt.so.1
- /usr/lib/libqtsdm.so
- /usr/lib64/libqtsdm-x86\_64.so
- /lib/cim/libqtsdm.so
- /usr/lib/libemsdm.so
- /usr/lib64/libemsdm.so
- /lib/cim/libemsdm.so
- /usr/lib/bfahbaapi.so
- /usr/lib64/bfahbaapi.so
- /lib/cim/bfahbaapi.so
- linux-vdso.so.1
- /lib64/libcrypt.so.1
- /lib64/libpthread.so.0
- /lib64/libz.so.1
- /lib64/libdl.so.2
- /lib64/librt.so.1
- /usr/lib64/libstdc++.so.6
- /lib64/libm.so.6
- /lib64/libgcc\_s.so.1
- /lib64/libc.so.6
- /lib64/ld-linux-x86-64.so.2

# Deployment Instructions

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The Supplement is designed for use after the operating system is installed. This enables the updating of drivers, and the installation of HPE utilities (such as Health and iLO drivers), and agents (Server, NIC, and Storage).

Using the SPP Supplement and its corresponding SPP on a supported Linux operating system. Enables the choice of either standard Linux installation tools (YUM/Zypper) or HPE management tools (SUM/OneView) to do the following:

- Use the software and firmware provided in the Supplement and the SPP.
- Use the firmware provided in the SPP and get the software from the Software Delivery Repository at <http://downloads.linux.hpe.com/SDR>.
- Use the firmware and software utilities provided in the SPP and get the drivers from the operating system distro.

When appropriate for any given deployment, components can be combined into a single ISO using SUM custom baseline or applied as separate packages.

## Component Release Notes

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[Driver - Storage Controller](#)

[Software - Lights-Out Management](#)

[Software - Network](#)

[Software - Storage Fibre Channel HBA](#)

[Software - System Management](#)

### **Driver - Storage Controller**

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HPE Dynamic Smart Array B140i SATA RAID Controller Driver for SUSE LINUX Enterprise Server 12 (64-bit)

Version: 1.2.10-176 **(Recommended)**

Filename: hpdsa-kmp-default-1.2.10-176.sles12sp4.x86\_64.compsig; hpdsa-kmp-default-1.2.10-176.sles12sp4.x86\_64.rpm; hpdsa-kmp-default-1.2.10-176.sles12sp5.x86\_64.compsig; hpdsa-kmp-default-1.2.10-176.sles12sp5.x86\_64.rpm

### **Fixes**

Add support for SuSE Linux Enterprise Server 12 SP5

### **Supported Devices and Features**

SUPPORTED KERNELS:

The kernels of SUSE LINUX Enterprise Server 12 (64-bit) supported by this binary rpm are:

4.4.21-69-default - SUSE LINUX Enterprise Server 12 (64-bit) SP2 plus future errata.

- SUSE LINUX Enterprise Server 12 (64-bit) SP3 plus future errata.

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HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for SUSE LINUX Enterprise Server 12 (64-bit)

Version: 1.2.10-027 **(Recommended)**

Filename: smartpqi-kmp-default-1.2.10-027.sles12sp4.x86\_64.compsig; smartpqi-kmp-default-1.2.10-027.sles12sp4.x86\_64.rpm; smartpqi-kmp-default-1.2.10-027.sles12sp5.x86\_64.compsig; smartpqi-kmp-default-1.2.10-027.sles12sp5.x86\_64.rpm

### **Important Note!**

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### **Fixes**

Add support for SuSE Linux Enterprise Server 12 SP5

### **Supported Devices and Features**

SUPPORTED KERNELS:

4.12.14-94.41.1 - SUSE LINUX Enterprise Server 12 (64-bit) SP4 plus future errata.

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HPE ProLiant Smart Array Controller (64-bit) Driver for SUSE LINUX Enterprise Server 12 (64-bit)

Version: 3.4.20-188 **(Recommended)**

Filename: hpsa-kmp-default-3.4.20-188.sles12sp4.x86\_64.compsig; hpsa-kmp-default-3.4.20-188.sles12sp4.x86\_64.rpm; hpsa-kmp-default-3.4.20-188.sles12sp5.x86\_64.compsig; hpsa-kmp-default-3.4.20-188.sles12sp5.x86\_64.rpm

### **Fixes**

Add support for SuSE Linux Enterprise Server 12 SP5

### **Supported Devices and Features**

SUPPORTED KERNELS:

The kernels of SUSE LINUX Enterprise Server 12 (64-bit) supported by this binary rpm are:

4.4.21-69-default - SUSE LINUX Enterprise Server 12 (64-bit) SP2 plus future errata.

4.4.73-5.1 - SUSE LINUX Enterprise Server 12 (64-bit) SP3 plus future errata.

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### **Software - Lights-Out Management**

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HP Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)

Version: 5.5.0-0 **(Recommended)**

Filename: hponcfg-5.5.0-0.x86\_64.compsig; hponcfg-5.5.0-0.x86\_64.rpm

### **Prerequisites**

This utility requires the following minimum firmware revisions:

- o Integrated Lights-Out 3 firmware v1.00 or later
- o Integrated Lights-Out 4 firmware v1.00 or later
- o Integrated Lights-Out 5 firmware v1.20 or later

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

For iLO 5, openssl v1.0.x or later is required in addition to above packages.

Customers who manually compile and install openssl or intentionally relocate /usr/bin/openssl, need to set PATH environment variable to direct HPONCFG to the right/intended openssl.

### **Fixes**



Updated the OpenSSL API calls to support Host's OpenSSL FIPS mode.

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## **Software - Network**

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Intel Active Health System Agent for HPE ProLiant Network Adapters for Linux x86\_64

Version: 1.1.83.0-1 (B) **(Optional)**

Filename: hp-ocsbbd-1.1.83.0-1.x86\_64.compsig; hp-ocsbbd-1.1.83.0-1.x86\_64.rpm; hp-ocsbbd-1.1.83.0-1.x86\_64.txt

### **Fixes**

SUM no longer attempts to install this product on Gen10 servers, which this product does not support.

### **Supported Devices and Features**

This software supports the following Intel 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 2-port 364i Adapter
- HP Ethernet 1Gb 4-port 366FLR Adapter
- HP Ethernet 1Gb 4-port 366M Adapter
- HP Ethernet 1Gb 4-port 366T Adapter
- HP Ethernet 10Gb 2-port 560FLB Adapter
- HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- HP Ethernet 10Gb 2-port 560M Adapter
- HP Ethernet 10Gb 2-port 560SFP+ Adapter
- HP Ethernet 10Gb 2-port 561FLR-T Adapter
- HP Ethernet 10Gb 2-port 561T Adapter

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## **Software - Storage Fibre Channel HBA**

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Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -SuSE Linux Enterprise Server(SLES)

Version: 4.1-1 (b) **(Optional)**

Filename: fibreutils-4.1-1\_sles.x86\_64.compsig; fibreutils-4.1-1\_sles.x86\_64.rpm

### **Prerequisites**

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

### **Fixes**

Fixed adapter\_info code to display correct Vendor name instead of Unknown

### **Enhancements**

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

### **Supported Devices and Features**

Supports the following:

- HP LPe1205A 8Gb Fibre Channel Host Bus Adapter
- HP LPe1605 16Gb Fibre Channel Host Bus Adapter

- HP QMH2672 16GB FC HBA for c-Class BladeSystem
- HP QMH2572 8Gb Fibre Channel Host Bus Adapter
- HP FlexFabric 20Gb 2-port 650M Adapter
- HP FlexFabric 20Gb 2-port 650FLB Adapter
- HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter
- HPE FlexFabric 10Gb 2-port 556FLR-T Adapter
- HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter
- HPE StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter
- HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter
- HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter
- HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter
- HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter
- HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter
- HP SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1610Q 32Gb 2P FC HBA
- HPE SN1610Q 32Gb 1P FC HBA
- HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter
- HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric CN1200E-T 10GBASE-T Converged Network Adapter
- HP StoreFabric CN1200E 10Gb Converged Network Adapter

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HPE Emulex Smart SAN Enablement Kit for Linux

Version: 1.0.0.0-4 (e) **(Optional)**

Filename: hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86\_64.compsig; hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86\_64.rpm

### **Important Note!**

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

To obtain the 3PAR Smart SAN User Guide to go the Storage Information Library at the following link:

[Storage Information Library](#)

(<http://www.hpe.com/info/storage/docs/>)

By default, **HP 3PAR Storage** is selected under

**Products and Solutions.**

### **Prerequisites**

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at [www.hpe.com](http://www.hpe.com).

Linux FC Driver Kit for HPE Branded Emulex FC HBAs and mezz cards, version 11.1.183.21 (minimum version supported) for RedHat 7, RedHat 8 and Novell SUSE 12, SUSE 15

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

### **Enhancements**

Added support to SLES15SP1

Updated to version 1.0.0.0-4

### **Supported Devices and Features**

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

#### **8Gb FC:**

- HP 81E 8Gb Single Port PCIe Fibre Channel Host Bus Adapter
- HP 82E 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HP StoreFabric 84E 4-Port Fibre Channel Host Bus Adapter

#### **LPe16000 (16Gb) FC:**

- HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1000E 16Gb Single Port Fibre Channel Host Bus Adapter
- HP Fibre Channel 16Gb LPe1605 Mezz
- HP SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HP SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100E 4P 16Gb Fibre Channel Host Bus Adapter

#### **LPe31000/32000 (16Gb/32Gb) FC:**

- HPE StoreFabric SN1200E 16Gb 2P FC HBA
- HPE StoreFabric SN1200E 16Gb 1P FC HBA
- HPE StoreFabric SN1600E 32Gb 2p FC HBA
- HPE StoreFabric SN1600E 32Gb 1p FC HBA

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HPE QLogic Fibre Channel Enablement Kit for Linux

Version: 6.0.0.0-11 (b) **(Optional)**

Filename: HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-11.noarch.compsig; HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-11.noarch.rpm

### **Important Note!**

Release Notes:

[HPE StoreFabric QLogic Adapters Release Notes](#)

## **Prerequisites**

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

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

## **Fixes**

Fixed the following:

- Non Volatile Memory Express (NVME) targets not seen when Non Volatile Memory Express (NVME) Id and Subsys Id are different
- Apps initialization delay seen with N\_Port ID Virtualization (NPIV) ports
- Apps issues seen with Non Volatile Memory Express (NVME) target in Red Hat Enterprise Linux (RHEL)
- Apps issues seen with Non Volatile Memory Express (NVME) target in N\_Port ID Virtualization (NPIV) configuration
- BSG interface fails if /tmp is mounted with tmpfs on shared memory

## **Enhancements**

Updated the kit to version 6.0.0.0-11

Added support for the following :

- Red Hat Enterprise Linux 8 (RHEL 8) and SuSE Linux Enterprise Server 15 Service Pack 1 (SLES15SP1)
- Allow SDGetActiveRegions Application Interface (API) for Gen 6 Fibre Channel Host Bus Adapters
- Restrict application features for Non Volatile Memory Express (NVME) targets
- Add Non Volatile Random Access Memory (NVRAM) parameter to select Fibre Channel Protocol (FCP) or Non Volatile Memory Express (NVME) targets

## **Supported Devices and Features**

This version of the enablement kit supports the following devices:

### **Gen 4 Fibre Channel Host Bus Adapter:**

- HPE 81Q PCIe Fibre Channel Host Bus Adapter
- HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

### **Gen 5 Fibre Channel Host Bus Adapter:**

- HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

#### **Gen 6 Fibre Channel Host Bus Adapter:**

- HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

#### **Gen 7 Fibre Channel Host Bus Adapter:**

- HPE SN1610Q 32Gb 2P FC HBA
- HPE SN1610Q 32Gb 1P FC HBA

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HPE QLogic Smart SAN enablement kit for Linux

Version: 3.3-3 (h) **(Optional)**

Filename: hpe-qlogic-smartsan-enablement-kit-3.3-3.x86\_64.compsig; hpe-qlogic-smartsan-enablement-kit-3.3-3.x86\_64.rpm

#### **Important Note!**

To obtain the 3PAR Smart SAN User Guide to go the Storage Information Library at the following link:

[Storage Information Library](#)

(<http://www.hpe.com/info/storage/docs/>)

By default, **HP 3PAR Storage** is selected under

**Products and Solutions.**

#### **Prerequisites**

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at [www.hpe.com](http://www.hpe.com).

- Red Hat Enterprise Linux 6 Server (x86-64) FCoE/FC Driver Kit for HPE Qlogic CNAs, HBAs and mezzanine HBAs, version 8.07.00.42.06.0-k1
- Red Hat Enterprise Linux 7 Server FCoE/FC Driver Kit for HPE QLogic CNAs, HBAs and mezzanine HBAs and CNAs, version 8.07.00.42.07.0-k1
- SUSE Linux Enterprise Server 11 (AMD64/EM64T) FCoE/FC Driver Kit for HPE Qlogic CNAs, HBAs and mezzanine HBAs, version 8.07.00.42.11.3-k
- SUSE Linux Enterprise Server 12 FCoE/FC Driver Kit for HPE QLogic CNAs, HBAs and mezzanine HBAs and CNAs version 8.07.00.42.12.0-k1

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

#### **Enhancements**

Added Support to RHEL8 and SLES15SP1

Updated to version 3.3-3

### **Supported Devices and Features**

This enablement kit is supported on the following HPE adapters:

#### **Gen 4 Fibre Channel Host Bus Adapter:**

- HPE 81Q PCIe Fibre Channel Host Bus Adapter
- HPE 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- HPE QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

#### **Gen 5 Fibre Channel Host Bus Adapter:**

- HPE QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter

#### **Gen 6 Fibre Channel Host Bus Adapter:**

- HPE StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

#### **Gen 7 Fibre Channel Host Bus Adapter:**

- HPE SN1610Q 32Gb 2P FC HBA
- HPE SN1610Q 32Gb 1P FC HBA

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### **Software - System Management**

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Agentless Management Service (iLO 5) for SUSE Linux Enterprise Server 12

Version: 2.1.0 **(Optional)**

Filename: amsd-2.1.0-1406.76.sles12.x86\_64.compsig; amsd-2.1.0-1406.76.sles12.x86\_64.rpm

### **Prerequisites**

- **amsd only supported on HPE Gen10 Servers.**
- **amsd provides information to the iLO 5 service providing SNMP support.**
- **Requirements:**
  - Minimum iLO 5 Firmware Version = 1.1
  - Minimum supported OS Versions = SUSE Linux Enterprise Server 12 SP2

### **Fixes**

Fixed the following items:

- Addressed memory leaks
- Corrected segfaults reported in ahslog

- Improved synchronization between iLO and amsd

### **Enhancements**

New features enabled with this release:

- All storage sub-agents are now independent services
- Added support for new network controllers

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HPE ProLiant Agentless Management Service for SUSE LINUX Enterprise Server 12

Version: 2.9.1 **(Optional)**

Filename: hp-ams-2.9.1-843.16.sles12.x86\_64.rpm

### **Prerequisites**

- **hp-ams supported on HP ProLiant Gen8 and Gen9 Servers.**
- **hp-ams provides information to the HP iLO 4 service providing SNMP support.**
- **SNMP PASS-THRU on the HP iLO 4 MUST be disabled, and SNMP should be configured on the HP iLO 4. The HP iLO 4 may need to be reset after changing these settings.**
- **Requirements:**
  - Minimum HP iLO 4 Firmware Version = 1.05
  - Minimum supported OS Versions = Red Hat Enterprise Linux 5.6, Red Hat Enterprise Linux 6.0, Red Hat Enterprise Linux 7.0, Red Hat Enterprise Linux 8.0, SUSE Linux Enterprise Server 10 SP4, SUSE Linux Enterprise Server 11 SP1, SUSE Linux Enterprise Server 12, SUSE Linux Enterprise Server 15

### **Fixes**

Fixed the following issues:

- amsHelper no longer segfaults when a NIC virtual function is created
- addressed an occasional segfault/system hang/NMI with amsHelper
- added support for the HPE Smart Array P824i-p storage controller in MRSA and Storcli

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HPE Smart Storage Administrator (HPE SSA) CLI for Linux 64-bit

Version: 4.15.6.0 **(Optional)**

Filename: ssacli-4.15-6.0.x86\_64.compsig; ssacli-4.15-6.0.x86\_64.rpm; ssacli-4.15-6.0.x86\_64.txt

### **Important Note!**

HPE SSACLI will allow you to configure and manage your storage as before, but now with additional features, abilities, and supported devices. Existing ACUCLI scripts should only need to make minimal changes such as calling the appropriate binary or executable in order to maintain compatibility.

### **Enhancements**

- Added support to enable SmartCache on volumes greater than 256TB

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HPE Smart Storage Administrator (HPE SSA) for Linux 64-bit

Version: 4.15.6.0 **(Optional)**

Filename: ssa-4.15-6.0.x86\_64.compsig; ssa-4.15-6.0.x86\_64.rpm

### **Important Note!**

HPE SSA replaces the existing HP Array Configuration Utility, or ACU, with an updated design and will deliver new features and functionality for various Smart Storage initiatives as they come online. HPE Smart Array Advanced Pack 1.0 and 2.0 features are now part of the baseline features of HPE SSA, with the appropriate firmware.

HPE SSA will allow you to configure and manage your storage as before, but now with additional features, abilities, and supported devices. Existing ACU scripts should only need to make minimal changes such as calling the appropriate binary or executable in order to maintain compatibility.

### **Prerequisites**

The HPE Smart Storage Administrator for Linux requires the HPE System Management Homepage software to be installed on the server. If the HPE System Management Homepage software is not already installed on your server, please download it from HPE.com and install it before installing the HPE Smart Storage Administrator for Linux.

**IMPORTANT UPDATE:** HPE SSA (GUI) for Linux can now be run without requiring the HPE System Management Homepage. HPE SSA now supports a Local Application Mode for Linux. The HPE System Management Homepage is still supported, but no longer required to run the HPE SSA GUI.

To invoke, enter the following at the command prompt:

```
ssa -local
```

The command will start HP SSA in a new Firefox browser window. When the browser window is closed, HP SSA will automatically stop. This is only valid for the loopback interface, and not visible to external network connections.

### **Enhancements**

- o Added support to enable SmartCache on volumes greater than 256TB

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HPE Smart Storage Administrator Diagnostic Utility (HPE SSADU) CLI for Linux 64-bit

Version: 4.15.6.0 **(Optional)**

Filename: ssaducli-4.15-6.0.x86\_64.compsig; ssaducli-4.15-6.0.x86\_64.rpm; ssaducli-4.15-6.0.x86\_64.txt

### **Important Note!**

This stand alone version of the HPE Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use HPE Smart Storage Administrator (HPE SSA).

### **Enhancements**

- o Added support to enable SmartCache on volumes greater than 256TB

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HPE SNMP Agents for SUSE LINUX Enterprise Server 12

Version: 10.9.0 **(Optional)**

Filename: hp-snmpp-agents-10.90-2995.10.sles12.x86\_64.rpm



## **Prerequisites**

The hp-health and hp-snmp-agents run as 32 bit applications in the x86\_64 environment. The Linux kernel 32 bit compatibility must be enabled (usual default for Linux) and the 32 bit compatibility libraries must be present.

To get the list of all dependency files for hp-snmp-agents type:

```
rpm -qp --requires hp-snmp-agents-<version>.rpm
```

## **Fixes**

Fixed the following items:

- o OS version values corrected
- o Incorrect OS names for new OS releases addressed

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HPE System Health Application and Command Line Utilities for SUSE LINUX Enterprise Server 12

Version: 10.9.0 **(Optional)**

Filename: hp-health-10.90-1873.3.sles12.x86\_64.rpm

## **Prerequisites**

The hp-health and hp-snmp-agents run as 32 bit applications in the x86\_64 environment. The Linux kernel 32 bit compatibility must be enabled (usual default for Linux) and the 32 bit compatibility libraries must be present.

To get the list of all dependency files for hp-health, type:

```
rpm -qp --requires hp-health-< version >.rpm
```

## **Fixes**

Fixed the following items:

- o Modified the loop initial values in hpsasmcli from 2 to 0.
- o Modifications to check the read and write variables to match RBSU in Legacy and UEFI mode
- o Updated the hpsasmcli check string to correctly report the impitool information.
- o Remove the redundant serial embedded and com ports
- o Addressed IML message size limitation from 36 to 212 bytes
- o Support for hp-health in OS security boot
- o Added supporting "quote mark" in SET NAME command
- o Enabled to set PXE as boot first

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HPE System Management Homepage for Linux (AMD64/EM64T)

Version: 7.6.5-3 **(Recommended)**

Filename: hpsmh-7.6.5-3.x86\_64.rpm

## **Important Note!**

SMH 7.6.0 & later versions, will support only Gen8 and Gen9 servers. Any future patch releases could be available, only on SMH web page. Please refer to HPE SMH [Release Notes](#)

Precautions for the user on Linux OS:

- Do not provide login access to the “hpsmh” user (created during installation) by editing the /etc/passwd file or any other means
- Do not add any user to the “hpsmh” group (created during installation)

### **Prerequisites**

Before installing the SMH software, the RPM verifies that the required versions of Linux library dependencies are present. If any dependencies are not present, then a list of the missing dependencies is provided. The user must manually install all missing dependencies to satisfy the prerequisites before proceeding with the RPM installation.

### **Fixes**

New OS Support

- RHEL 8
- SLES15 SP1

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HPE System Management Homepage Templates for Linux  
Version: 10.8.1 **(Optional)**  
Filename: hp-smh-templates-10.8.1-1487.3.noarch.rpm

### **Prerequisites**

The **hp-smh-templates** RPM install will fail, if all dependencies are not installed. The administrator can verify the list of dependencies required by running this command. If the repositories being used by yum or zypper, includes these dependencies, the installation tool will automatically retrieve them. However if they are not present, the user must manually install them prior to proceeding with the RPM install.

To get the list of all dependency files for hp-smh-templates type:

```
rpm -qp --requires hp-smh-templates-<version>.rpm
```

### **Fixes**

Initial support for Red Hat Enterprise Linux 8 Server

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