Hewlett Packard Enterprise

# Red Hat Enterprise Linux 7.6 Supplement for Service Pack for ProLiant 2018.11.0 Release Notes

Published December 2018

Legal and notice information



**Document History:**

| Released | Description |
|---|---|
| December 2018 | Initial Version |

# Table of Contents

# Overview

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 HPE 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. Please 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 Red Hat Enterprise Linux (RHEL) 7.6 Supplement for Service Pack for ProLiant 2018.11.0 and provides RHEL 7.6 support for HPE ProLiant products. It is a RHEL 7.6 only release and is designed to work with SPP 2018.11.0.

For more information on which servers are supported with RHEL 7.6, please visit our OS Support Site at: **http://www.hpe.com/servers/ossupport**.

| Product Name | Comment |
|---|---|
| **Red Hat Enterprise Linux 7.6** | **Bundle containing software components** |
| **Supplement for Service Pack for ProLiant 2018.11.0** | **Filename: supspp-11.28.rhel7.en.tar.gz** |

## 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 2018.11.0

# Summary of Changes

## 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 Red Hat Enterprise Linux (RHEL) 7.6 Supplement for Service Pack for ProLiant release is:

Added support for Red Hat Enterprise Linux 7.6.

Drivers either found in this Supplement or delivered with the RHEL7.6 distribution can be used. However, the drivers found in the initial release of the distribution may not contain all of the HPE value added features that are available in the Supplement. These features will be added in a future SPP release.

This Supplement corresponds with SPP 2018.11.0.

HP 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 supplement:

| Product | Version |
|---|---|
| **Service Pack for ProLiant** | **2018.11.0**<br>**2018.06.0**<br>**2018.03.0** |

# Prerequisites

## 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/libqlsdm.so
- /usr/lib64/libqlsdm-x86_64.so
- /lib/cim/libqlsdm.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

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

Software - Lights-Out Management
Software - Management
Software - Storage Fibre Channel HBA
Software - System Management

**Software - Lights-Out Management** Top

HP Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)
Version: 5.4.0-0 **(Optional)**
Filename: hponcfg-5.4.0-0.x86_64.compsig; hponcfg-5.4.0-0.x86_64.rpm

**Prerequisites**

This utility requires the following minimum firmware revisions:

- Integrated Lights-Out 3 firmware v1.00 or later
- Integrated Lights-Out 4 firmware v1.00 or later
- 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**

Fixed an issue where HPONCFG was not able to detect openssl library when both 32-bit and 64-bit openssl are installed.

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**Software - Management** Top

HPE SDK Python Module
Version: 2.3.1 **(Optional)**
Filename: python-ilorest-library-2.3.1.zip

**Enhancements**

- Added the ability to set functions to encode/decode sensitive cache data.
- Increased validation and load times.

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**Software - Storage Fibre Channel HBA** Top

Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux (x86_64)
Version: 3.3-5 (b) **(Optional)**
Filename: fibreutils-3.3-5.x86_64.compsig; fibreutils-3.3-5.x86_64.rpm

**Prerequisites**

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

**Enhancements**

Updated code for the following:

- Emulex CNA Driver display due to split
- Optrom version display

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HPE Emulex Fibre Channel Enablement Kit for Red Hat Enterprise Linux 7 Server
Version: 11.4.334.2 **(Recommended)**
Filename: HP-CNA-FC-Emulex-Enablement-Kit-11.4.334.2-1.rhel7.x86_64.compsig; HP-CNA-FC-

Emulex-Enablement-Kit-11.4.334.2-1.rhel7.x86_64.rpm

**Important Note!**

Release Notes:
HPE StoreFabric Emulex Adapters 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.

**Prerequisites**

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

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
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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.

**Enhancements**

Added support to Red Hat Enterprise Linux 7u5

Updated to version 11.4.334.2

**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 LPe1205A 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class
- 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 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
- HP Fibre Channel 16Gb LPe1605 Mezz
- HPE Synergy 3530C 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 Emulex Smart SAN Enablement Kit for Linux
Version: 1.0.0.0-4 (c) **(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!**

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.

Linux FC Driver Kit for HPE Branded Emulex FC HBAs and mezz cards, version 11.1.183.21, for RedHat 6, RedHat 7, and Novell SUSE 11, SUSE 12

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 SuSE Linux Enterprise Server 15

Updated to version 1.0.0.0-4 (c)

## 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
- HPE Synergy 3530C 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

HPE Emulex(BRCM) Fibre Channel Over Ethernet Enablement Kit for Red Hat Enterprise Linux 7 Server
Version: 12.0.1107.0 **(Recommended)**
Filename: HP-CNA-FC-Broadcom-Enablement-Kit-12.0.1107.0-1.rhel7.x86_64.compsig; HP-CNA-FC-Broadcom-Enablement-Kit-12.0.1107.0-1.rhel7.x86_64.rpm

**Important Note!**

Release Notes:
HPE StoreFabric Emulex Adapters 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.

**Prerequisites**

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

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.

**Enhancements**

Added support to Red Hat Enterprise Linux 7u5

Updated to version: 12.0.1107.0

**Supported Devices and Features**

This component is supported on following Emulex Converged Network Adapters:

**XE100 Series:**

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

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HPE QLogic Fibre Channel Enablement Kit for Linux
Version: 6.0.0.0-4 (e) **(Recommended)**
Filename: HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-4.noarch.compsig; HP-CNA-FC-hpqlgc-Enablement-Kit-6.0.0.0-4.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/

**Enhancements**

Updated the kit to version 6.0.0.0-4

**Supported Devices and Features**

This version of the enablement kit supports the following devices:

**8Gb FC:**

- HP 81Q PCIe Fibre Channel Host Bus Adapter
- HP 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter

- HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA
- HP QMH2572 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem

**16Gb FC:**

- HP QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HPE Synergy 3830C 16G Fibre Channel Host Bus Adapter

**32Gb FC:**

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

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HPE QLogic Smart SAN enablement kit for Linux
Version: 3.3-3 (c) **(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.

- 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 SuSE Linux Enterprise Server 15

Updated to version 3.3-3(c)

## Supported Devices and Features

This enablement kit is supported on the following HPE adapters:

**8Gb FC:**

- HP 81Q PCIe Fibre Channel Host Bus Adapter
- HP 82Q 8Gb Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE StoreFabric 84Q 4P 8Gb Fibre Channel HBA

**16Gb FC:**

- HP QMH2672 16Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem
- HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HP StoreFabric SN1100Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter
- HP StoreFabric SN1100Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter
- HPE Synergy 3830C 16G Fibre Channel Host Bus Adapter

**32Gb FC:**

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

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## Software - System Management Top

Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 7 Server
Version: 1.3.2 **(Optional)**
Filename: amsd-1.3.2-3016.4.rhel7.x86_64.compsig; amsd-1.3.2-3016.4.rhel7.x86_64.rpm

## Prerequisites

- **amsd only supported on HPE Gen10 Servers.**
- **amsd provides information to the iLO 5 service providing SNMP support.**

- **SNMP PASS-THRU on the iLO 5 MUST be disabled, and SNMP should be configured on the iLO 5. The iLO 5 may need to be reset after changing these settings.**
- **Requirements:**
  - Minimum iLO 5 Firmware Version = 1.1
  - Minimum supported OS Versions = Red Hat Enterprise Linux 7.3 Errata 3.10.0.514.6.1

**Fixes**

Fixed the following items:

- Traps for Fibre Channel and Events are now correctly logged to the iLO IML
- ahslog does not segfault when logging storage volume utilization

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HPE MegaRAID Storage Administrator (HPE MRSA) for Linux 64-bit
Version: 3.94.0.0 **(Optional)**
Filename: HPE_Linux_64_readme.txt; MRStorageAdministrator-003.094.000.000-00.x86_64.rpm; MRStorageAdministrator-003.094.000.000-00.x86_64_part1.compsig; MRStorageAdministrator-003.094.000.000-00.x86_64_part2.compsig; MRStorageAdministrator-003.094.000.000-00.x86_64_part3.compsig; MRStorageAdministrator-003.094.000.000-00.x86_64_part4.compsig

**Important Note!**

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**Prerequisites**

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**Enhancements**

- Added support for SUSE LINUX Enterprise Server 15 OS.

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HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit
Version: 1.24.09 (B) **(Optional)**
Filename: LINUX_Readme.txt; storcli-1.24.09-1.noarch.compsig; storcli-1.24.09-1.noarch.rpm

**Enhancements**

Added support for SUSE LINUX Enterprise Server 15 OS.

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HPE ProLiant Agentless Management Service for Red Hat Enterprise Linux 7 Server
Version: 2.8.2 **(Optional)**
Filename: hp-ams-2.8.2-3017.4.rhel7.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, SuSE Linux Enterprise Server 10 SP4, SuSE Linux Enterprise Server 11 SP1

**Fixes**

Fixed the following items:

- Traps for Fibre Channel and Events are now correctly logged to the iLO IML

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HPE Smart Storage Administrator (HPE SSA) CLI for Linux 64-bit
Version: 3.30.14.0 **(Recommended)**
Filename: ssacli-3.30-14.0.x86_64.compsig; ssacli-3.30-14.0.x86_64.rpm; ssacli-3.30-14.0.x86_64.txt

**Important Note!**

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.

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 the ability to enable or disable Drive Write Cache for configured and unconfigured drives

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HPE Smart Storage Administrator (HPE SSA) for Linux 64-bit
Version: 3.30.14.0 **(Recommended)**
Filename: ssa-3.30-14.0.x86_64.compsig; ssa-3.30-14.0.x86_64.rpm; ssa-3.30-14.0.x86_64.txt

**Important Note!**

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the

BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.

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**

- Added the ability to enable or disable Drive Write Cache for configured and unconfigured drives

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HPE Smart Storage Administrator Diagnostic Utility (HPE SSADU) CLI for Linux 64-bit
Version: 3.30.14.0 **(Recommended)**
Filename: ssaducli-3.30-14.0.x86_64.compsig; ssaducli-3.30-14.0.x86_64.rpm; ssaducli-3.30-14.0.x86_64.txt

**Important Note!**

It is recommended to update to this 3.30.13.0 version of HPE Smart Storage Administrator if you update your system BIOS using the 2018.06 version of SPP. Any array created with the BIOS configuration utility from the 2018.06 version of SPP will not be accessible with an older version of HPE Smart Storage Administrator.

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**

- Added the ability to enable or disable Drive Write Cache for configured and unconfigured drives

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HPE SNMP Agents for Red Hat Enterprise Linux 7 Server
Version: 10.8.0 **(Optional)**
Filename: hp-snmp-agents-10.80-2965.21.rhel7.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:
Enabled additional debugging information for the storage agents debuginfo rpm

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HPE System Health Application and Command Line Utilities for Red Hat Enterprise Linux 7 Server
Version: 10.8.0 **(Optional)**
Filename: hp-health-10.80-1855.21.rhel7.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:
Add a new constraint to avoid buffer overflow while retrieving device information.

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HPE System Management Homepage for Linux (AMD64/EM64T)
Version: 7.6.4-3 **(Recommended)**
Filename: hpsmh-7.6.4-3.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.

**Enhancements**

SUSE Linux Enterprise server 15 Operating System support

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HPE System Management Homepage Templates for Linux
Version: 10.8.0 **(Optional)**
Filename: hp-smh-templates-10.8.0-1486.2.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

**Enhancements**

Initial support for SUSE LINUX Enterprise Server 15.

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Insight Diagnostics Online Edition for Linux (x86-64)
Version: 10.60.2199 **(Recommended)**
Filename: hpdiags-10.60.2199-2188.linux.x86_64.rpm

**Important Note!**

The online version of Insight Diagnostics provides the same functionality as the Survey Utility for Windows and Linux and does not perform any hardware tests on the system. Although not required, it is recommended that you uninstall the current Survey Utility for Windows or Linux before beginning the installation of Insight Diagnostics Online Edition.

## Prerequisites

The following component(s) are required for Insight Diagnostics Online Edition for Linux:

- System Management Homepage, version 7.0.0-12 or higher

The following component(s) are recommended for Insight Diagnostics Online Edition for Linux to make full use of its capabilities:

- System Health Application, version 9.0.0 or higher

You can install them by using the SPP or downloading them individually from HPE Support Center.

## Fixes

- XSS vulnerability in the online page
- libsgutils symlink fix

## Enhancements

See the Service Pack for ProLiant Release Notes for more information.

See the Service Pack for ProLiant Server Support Guide for information on supported servers.

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