



**Hewlett Packard**  
Enterprise

# SUSE Linux Enterprise Server 15 SP1 Supplement for Service Pack for ProLiant 2019.03.1 Release Notes

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### Document History:

Released	Description
July 2019	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 Enterprise Server 15 SP1 Supplement for Service Pack for ProLiant 2019.03.1 and provides SUSE Linux Enterprise Server 15 SP1 support for HPE ProLiant products. It is a SUSE Linux Enterprise Server 15 SP1 only release and is designed to work with SPP 2019.03.1.

For more information on which servers are supported with SUSE LINUX 15.1, please visit our OS Support Site at: <http://www.hpe.com/servers/ossupport>.

Product Name	Comment
<b>SUSE Linux Enterprise Server 15 SP1 Supplement for Service Pack for ProLiant 2019.03.1</b>	<b>Bundle containing software components</b> <b>Filename: supspp-2019.03.sles15.1.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 2019.03.1

# 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 Enterprise Server 15 SP1 Supplement for Service Pack for ProLiant release is:

Added support for SUSE Linux Enterprise Server 15 SP1.

You may choose to use the drivers delivered with the SUSE Linux Enterprise Server 15 SP1 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 2019.03.1.

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
Service Pack for ProLiant	2019.03.1

## 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 2019.03.1.

## 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/libqldsdm.so
- /usr/lib64/libqldsdm-x86\_64.so
- /lib/cim/libqldsdm.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

## Limitations

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If using Custom Download with this supplement and the 2019.03.1 Service Pack for ProLiant (SPP), selecting hardware filters may return inconsistent results. Also, Custom Download may report a failed dependency on HPE Broadcom tg3 Ethernet Drivers for

SUSE Linux Enterprise Server 15. This driver is not part of the supplement, but is contained in the 2019.03.1 SPP. It will be updated in a future SPP. Please use the driver contained in the SLES15SP1 distribution. Since this supplement does not contain NIC drivers, please use the drivers contained in the SLES15SP1 distribution for updating SLES15SP1OS.

## 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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Release Notes for SUSE Linux Enterprise Server 15 SP1 Supplement Bundle for Service Pack for ProLiant, v2019.03.1

[Driver - Storage Controller](#)  
[Software - Lights-Out Management](#)  
[Software - System Management](#)

### Driver - Storage Controller

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HPE Dynamic Smart Array B140i SATA RAID Controller Driver for SUSE LINUX Enterprise Server 15 (64-bit)

Version: 1.2.10-162 (**Recommended**)

Filename: hpdsa-kmp-default-1.2.10-162.sles15sp0.x86\_64.compsig; hpdsa-kmp-default-1.2.10-162.sles15sp0.x86\_64.rpm; hpdsa-kmp-default-1.2.10-162.sles15sp1.x86\_64.compsig; hpdsa-kmp-default-1.2.10-162.sles15sp1.x86\_64.rpm

### Enhancements

Added support for SUSE Linux Enterprise Services15 SP1

## Supported Devices and Features

### SUPPORTED KERNELS:

The kernels of SUSE LINUX Enterprise Server 15 (64-bit) supported by this binary rpm are:  
4.12.14-23 - SUSE LINUX Enterprise Server 15 (64-bit) SPO plus future errata.

default - SUSE LINUX Enterprise Server 15 (64-bit) SP1 plus future errata

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HPE ProLiant Gen10 Smart Array Controller (64-bit) Driver for SUSE LINUX Enterprise Server 15 (64-bit)

Version: 1.2.8-015 **(Recommended)**

Filename: smartpqi-kmp-default-1.2.8-015.sles15sp0.x86\_64.compsig; smartpqi-kmp-default-1.2.8-015.sles15sp0.x86\_64.rpm; smartpqi-kmp-default-1.2.8-015.sles15sp1.x86\_64.compsig; smartpqi-kmp-default-1.2.8-015.sles15sp1.x86\_64.rpm

## Enhancements

Added support for SUSE Linux Enterprise Services15 SP1

## Supported Devices and Features

The kernels of SUSE LINUX Enterprise Server 15 (64-bit) supported by this driver diskette are:  
-default - SUSE LINUX Enterprise Server 15 (64-bit) and future errata kernels

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HPE ProLiant Smart Array Controller (64-bit) Driver for SUSE LINUX Enterprise Server 15 (64-bit)

Version: 3.4.20-170 **(Recommended)**

Filename: hpsa-kmp-default-3.4.20-170.sles15sp0.x86\_64.compsig; hpsa-kmp-default-3.4.20-170.sles15sp0.x86\_64.rpm; hpsa-kmp-default-3.4.20-170.sles15sp1.x86\_64.compsig; hpsa-kmp-default-3.4.20-170.sles15sp1.x86\_64.rpm

## Enhancements

Added support for SUSE Linux Enterprise Services15 SP1

## Supported Devices and Features

### SUPPORTED KERNELS:

The kernels of SUSE LINUX Enterprise Server 15 (64-bit) supported by this binary rpm are:  
4.12.14-23 - SUSE LINUX Enterprise Server 15 (64-bit) SPO plus future errata.

default - SUSE LINUX Enterprise Server 15 (64-bit) SP1 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: 5.4.0-0 **(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:

- 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

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

## Software - System Management

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Agentless Management Service (iLO 5) for SUSE Linux Enterprise Server 15

Version: 1.4.1 **(Optional)**

Filename: amsd-1.4.1-1161.34.sles15.x86\_64.compsig; amsd-1.4.1-1161.34.sles15.x86\_64.rpm

### Prerequisites

- o **amsd only supported on HPE Gen10 Servers.**
- o **amsd provides information to the iLO 5 service providing SNMP support.**
- o **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.**
- o **Requirements:**
  - Minimum iLO 5 Firmware Version = 1.1
  - Minimum supported OS Versions = SuSE Linux Enterprise Server 15

### Fixes

Fixed the following issues:

- o added support for SLES15 SP1
- o amsd no longer segfaults when a NIC virtual function is created
- o addressed an occasional segfault/system hang/NMI with amsd
- o added support for the HPE Smart Array P824i-p storage controller in MRSA and Storcli
- o Corrected the cpqFcaHostCntlrFirmwareVersion for the HPE Synergy 5830C 32Gb FC Host Bus Adapter

HPE ProLiant Agentless Management Service for SUSE LINUX Enterprise Server 15

Version: 2.9.1 **(Optional)**

Filename: hp-ams-2.9.1-842.14.sles15.x86\_64.rpm

### Prerequisites

- o **hp-ams supported on HP ProLiant Gen8 and Gen9 Servers.**
- o **hp-ams provides information to the HP iLO 4 service providing SNMP support.**
- o **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.**
- o **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, SUSE Linux Enterprise Server 10 SP4, SUSE

## Fixes

Fixed the following issues:

- added support for SLES15 SP1
- 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: 3.40.3.0 **(Optional)**

Filename: ssacli-3.40-3.0.x86\_64.compsig; ssacli-3.40-3.0.x86\_64.rpm; ssacli-3.40-3.0.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

- Supports Online Firmware Activation reporting

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

Version: 3.40.3.0 **(Optional)**

Filename: ssa-3.40-3.0.x86\_64.compsig; ssa-3.40-3.0.x86\_64.rpm; ssa-3.40-3.0.x86\_64.txt

## 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

- Supports Online Firmware Activation reporting

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

Version: 3.40.3.0 **(Optional)**

Filename: ssaduccli-3.40-3.0.x86\_64.compsig; ssaduccli-3.40-3.0.x86\_64.rpm; ssaduccli-3.40-3.0.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

- Supports Online Firmware Activation reporting

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HPE SNMP Agents for SUSE LINUX Enterprise Server 15

Version: 10.8.1 (a) **(Optional)**

Filename: hp-snmpp-agents-10.81-2972.1.sles15.x86\_64.rpm

### Prerequisites

The hp-health and hp-snmpp-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-snmpp-agents type:

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

### Fixes

Fixed the following items:

- Addressed metadata issue where the Operating System name was not showing SUSE Linux Enterprise Server 15 in the XML

### Enhancements

Initial release.

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HPE System Health Application and Command Line Utilities for SUSE LINUX Enterprise Server 15

Version: 10.9.0 **(Optional)**

Filename: hp-health-10.90-1860.5.sles15.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:

- o Do not provide login access to the "hpsmh" user (created during installation) by editing the /etc/passwd file or any other means
- o 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: 10.8.0 **(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.