



Hewlett Packard
Enterprise

Red Hat Enterprise Linux 8.4

Supplement for Service Pack for ProLiant 2021.04.0 Gen10

Release Notes

July 2021

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Document History:

Released	Description
July 2021	Final Version

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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.

Beginning with 2020.03.2, there is an additional Gen10 production Supplement SPP release.

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 is the Red Hat Enterprise Linux (RHEL) 8.4 Supplement for Gen10 Service Pack for ProLiant 2021.04.0.

For more information on which servers are supported with RHEL 8.4, please visit our OS Support Site at: <https://www.hpe.com/servers/ossupport>.

Product Name	Comment
RHEL8.4 Supplement for Gen10 SPP version 2021.04.0	Bundle containing software components Filename: gen10supspp-2021.04.rhel8.4.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

Gen10 Service Pack for ProLiant 2021.04.0

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 Red Hat Enterprise Linux (RHEL) 8.4 Supplement for Service Pack for ProLiant Gen10 release is:

Added support for Red Hat Enterprise Linux 8.4

This Supplement corresponds with Gen10only SPP 2021.04.0. Drivers either found in this SPP 2021.04.0 Gen10Only or delivered with the RHEL 8.4 distribution can be used. However, the drivers found in the initial release (SPP 2020.09.0 Gen10Only) 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.

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	2021.04.0
	2020.09.1
	2020.03.2

Note: The users may see the “thawing” state in the systemd message console because the systemd doesn’t set the default value correctly, especially after a restart or reload services.

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/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

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 <https://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.

Note: Gen10 iLO 5 Linux and iLO 5 nodes only -to manage the iLO Repository, select the iLO Repository Options tab. (When running SUM in GUI mode).

To upload selected components to the iLO Repository and create an install set, select Save Components as an Install set on iLO Repository. SUM automatically creates a default name and description, but you can edit the name and description for the install set. You can use this install set to roll back the server components at a future time. The name and description

are **limited to 63 characters**, and the only special characters allowed are - and _.

Component Release Notes

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

Driver - Storage Controller

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HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)

Version: 2.1.12-025 (**Recommended**)

Filename: kmod-smartpqi-2.1.12-025.rhel8u3.x86_64.compsig; kmod-smartpqi-2.1.12-025.rhel8u3.x86_64.rpm; kmod-smartpqi-2.1.12-025.rhel8u4.x86_64.compsig; kmod-smartpqi-2.1.12-025.rhel8u4.x86_64.rpm

Important Note!

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Fixes

- Firmware ASSERT issue might be observed when scsi-mid-layer sends requests that exceeded the exposed host queue depth. This issue might happen in Linux kernel version 5.5 and higher.
- following error message might be observed 'Synchronize Cache(10) failed: Result: hostbyte=DID_NO_CONNECT driverbyte=DRIVER_OK', when unloading driver with outstanding I/O on drive write cache enabled for HBA SAS/SATA disks.
- The SmartPath read I/O request might have access error and no data is returned, when I/O request hit UREs.

Enhancements

- Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.
- Added support to RHEL8.4 OS.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux8 (64-bit) supported by this binary rpm are:
-default- Red Hat Enterprise Linux 8 Update 0 (64-bit).

Software - Lights-Out Management

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

Version: 5.6.0-0 (**Optional**)

Filename: hponcfg-5.6.0-0.x86_64.compsig; hponcfg-5.6.0-0.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 multiple 64-bit openssl installed.

Enhancements

Updated product name to HPE Lights-Out Online Configuration Utility for Linux (AMD64/EM64T).

Software - System Management

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Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 8 Server

Version: 2.4.1 (**Optional**)

Filename: amsd-2.4.1-1571.8.rhel8.x86_64.compsig; amsd-2.4.1-1571.8.rhel8.x86_64.rpm

Prerequisites

- amsd only supported on HPE Gen10/Gen10 Plus Servers.
- amsd provides information to the iLO 5 service providing SNMP support.
- Requirements:
 - Minimum iLO 5 Firmware Version = 1.1
 - Minimum supported OS Versions = Red Hat Enterprise Linux 8

Fixes

Fixed the following items:

- Addressed a small amount of memory leak as outlined in the Customer Advisory, [a00053824en_us](#)
- A customer may experience where smad may periodically report: No response from iLO for Hello. After losing connection with iLO, the subagent may experience high CPU utilization for trying the reconnection. This issue is documented in Customer Advisory https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00111063en_us.
- The cpqIde service not able to start while the AMSD configuration is agent mode.
- Addressed buffer overflow issues in select corner cases.

Enhancements

This release contains the following enhancements:

- Enhance the robust communication with iLO. The enhancement has a proper process exist and OS signal handling.

- Enhance the SMA logging system for better recording of the communication events.
- The AMSD reports the Open NIC controllers SN to align with iLO for avoiding the un-sync information.

Contents Report

RHEL8.4 Supplement for Gen10 SPP Contents

This table lists all of the software and firmware on this RHEL8.4 Supplement for Gen10 SPP. For more information on this deliverable go to www.hpe.com/servers/spp/download.

Product Category	Component Title	Version	Release Date	Filename
Application - System Management	Integrated Smart Update Tools for Linux x64	2.8.0.0	27 June 2020	sut-2.8.0-26.linux.x86_64.rpm
Driver - Storage Controller	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	2.1.12-025	03 June 2021	kmod-smartpqi-2.1.12-025.rhel8u3.x86_64.rpm kmod-smartpqi-2.1.12-025.rhel8u4.x86_64.rpm
Driver - Storage Controller	HPE Dynamic Smart Array B140i SATA RAID Controller Driver for Red Hat Enterprise Linux 8 (64-bit)	1.2.10-196	06 June 2021	kmod-hpdsa-1.2.10-196.rhel8u4.x86_64.rpm kmod-hpdsa-1.2.10-196.rhel8u3.x86_64.rpm
Driver - Storage Controller	HPE ProLiant Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	3.4.20-208	06 June 2021	kmod-hpsa-3.4.20-208.rhel8u4.x86_64.rpm kmod-hpsa-3.4.20-208.rhel8u3.x86_64.rpm
Software - System Management	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 8 Server	2.4.1	04 February 2021	amsd-2.4.1-1571.8.rhel8.x86_64.rpm
Software - System Management	HPE ProLiant Agentless Management Service for Red Hat Enterprise Linux 8 Server	2.10.2	07 November 2020	hp-ams-2.10.2-876.6.rhel8.x86_64.rpm
Software - System Management	HPE System Management Homepage for Linux (AMD64/EM64T)	7.6.7-1	08 May 2021	hpsmh-7.6.7-1.x86_64.rpm

Software - System Management	HPE System Management Homepage Templates for Linux	10.8.1	15 February 2019	hp-smh-templates-10.8.1-1487.3.noarch.rpm
Software - System Management	HPE System Health Application and Command Line Utilities for Red Hat Enterprise Linux 8 Server	10.9.2	21 November 2019	hp-health-10.92-5.5.rhel8.x86_64.rpm
Software - System Management	HPE SNMP Agents for Red Hat Enterprise Linux 8 Server	10.9.2	07 June 2020	hp-snmp-agents-10.92-679.6.rhel8.x86_64.rpm
Software - Lights-Out Management	HPE Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)	5.6.0-0	27 June 2020	hponcfg-5.6.0-0.x86_64.rpm
Software - Driver Update	HPE Dynamic Smart Array B140i SATA RAID Controller Driver for Red Hat Enterprise Linux 8 (64-bit)	1.2.10-196	06 June 2021	

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