

Gen10/Gen10 Plus SPP 2022.03.0 Release Notes

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Document History:

Released	Description	
April 2022	Final Version	

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Overview

The Gen10/Gen10 Plus Service Pack for ProLiant (SPP) is a comprehensive systems software and firmware update solution, which is delivered as a single ISO image. This solution uses Smart Update Manager (SUM) as the deployment tool and is tested on all HPE ProLiant Gen10 and Gen10 Plus servers as defined in the Server Support Guide.

Starting from SPP 2021.10.0 onwards, two SPPs will be released, one for Gen9 only products and the other one for Gen10/Gen10 Plus products. Entitlement verification is no longer required for the "Gen10/Gen10 Plus" SPP versions but is still required for the Gen9 only (2021.10.0) and Gen9/Gen10/Gen10 Plus SPP version (2021.05.0 and earlier).

For a full list of SPP Documentation, please review the <u>Documentation Tab</u> on the SPP Download Page.

Documentation	Description
Release Notes	Release notes for this SPP, containing important notes and known issues.
Component Release Notes	Release Notes for each component contained in this SPP, containing Fixes, Enhancements and important notes for each component contained in the SPP.
Contents Report	List of software and firmware on this SPP with filename and version.
Server Support Guide	List of software and firmware used by each HPE Server.
OS Guide	List of Operating Systems support included in each SPP.

Summary of Changes

Important Notes

Starting from SPP 2021.10.0, two SPPs are being released, one for Gen9 only products and the other one for Gen10/Gen10 Plus products.

HPE StoreOnce Customers – Installation of the SPP can cause problems on StoreOnce systems. Please go to the <u>HPE Support Center</u> to find the appropriate StoreOnce update.

In order to reduce the frequency at which servers need to be updated, HPE has changed the packaging and delivery of the SPP. There are two types of SPPs:

- Individual "Production SPPs" that contain firmwares and drivers for all the production server generations, and
- Server generation specific "Post-Production SPPs" that contain the firmwares and drivers for a specific post-production server generation (e.g., Gen8 only Post-Production SPP that contains the firmwares and drivers for all Gen8 server models).

The 2017.04.0 SPP was the last production SPP to contain components for the G6, G7 and Gen8 server platforms. For additional information on the changes, see "Reducing Server Updates".

NOTE: Products sold prior to the November 1, 2015 separation of Hewlett-Packard Company into Hewlett Packard Enterprise Company and HP Inc. may have older product names and model numbers that differ from current models.

Enhancements

The 2022.03.0 Gen10/Gen10 Plus SPP Production release contains components supporting the ProLiant and Apollo Gen10 and Gen10 Plus server platforms and options. This SPP release contains Smart Update Manager (SUM) 8.9.5 and driver support for:

- Microsoft Windows Server 2022
- Red Hat Enterprise Linux 8.5
- SUSE Linux Enterprise Server 15 SP3
- Enabled support for vLCM/HSM. Please refer to <u>Valid-vLCM-Combos</u> document for information on using the SPP to define the vLCM desired image.

This release also includes support for online update of VMware ESXi 7.0 U3 on Gen10/Gen10 Plus server platforms.

2022.03.0 SPP release supersedes the SNAP5 version 2021.10.0 Gen10 SPP.

For a complete list of components on the ISO, see the SPP Contents Report on the ISO or the SPP page (documentation tab).

Support Removed

- Red Hat Enterprise Linux 7.7
- Red Hat Enterprise Linux 8.1, 8.2, 8.3
- SUSE Linux Enterprise Server 12 SP4
- SUSE Linux Enterprise Server 15 SP0, SP1
- VMware vSphere 6.7U2
- VMware vSphere 7.0U1
- Windows 2012 R2
- No BladeSystem in this March 2022 MSB

Supported Operating Systems

The following operating systems are supported for system software and firmware:

- Microsoft Windows Server 2022
- Microsoft Windows Server 2019 All Editions
- Microsoft Windows Server 2016 All Editions
- Red Hat Enterprise Linux 8.4, 8.5
- Red Hat Enterprise Linux 7.8, 7.9
- SUSE Linux Enterprise Server 15 SP2, SP3
- SUSE Linux Enterprise Server 12 SP5
- VMware vSphere 6.5 U3
- VMware vSphere 6.7 U3
- VMware vSphere 7.0 U2, U3

BladeSystem Adapters (Summary of Last OS Version Supported by Adapter)

Operating System support for the HPE ProLiant BladeSystem portfolio is frozen starting from Service Pack for ProLiant (SPP) Version 2021.10.0, released in October 2021. Starting with March 2022 MSB there will be no updated firmware nor driver releases across the ProLiant BladeSystem platform. HPE will not be testing new operating systems nor validating existing OS support with newer SPP or MSBs. No updated firmware nor driver releases later than SPP version 2021.10.0 may be applied on HPE ProLiant BladeSystem products. Even though there are BladeSystem-specific components listed in this March 2022 MSB, they are not supported on BladeSystem. The table below includes a summary of OS version supported by these BladeSystem adapters from SPP 2021.10.0.

Adapter SKU Description	Adapter SKU Ordering Number	Adapter Vendor	RHEL Version <u>NOT</u> Supported	RHEL Version Supported	SUSE Version <u>NOT</u> Supported	SUSE Version Supported
HPE Ethernet 10Gb 2-port 560M	I INTELL X4 I	7.8, 7.9,	SLES 15	SLES 12 SP5		
Adapter		inter	0.7	8.3	SP3	SLES 15 SP2
HPE Ethernet 10Gb 2-port 560FLB	655639- B21	Intel	8.4	7.8, 7.9, 8.3	SLES 15 SP3	SLES 12 SP5
Adapter						SLES 15 SP2
HPE FlexFabric 20Gb 2-port 650M	700767- B21	Broadcom	8.4	7.8, 7.9, 8.3	SLES 15 SP3	SLES 12 SP5
Adapter						SLES 15 SP2
HPE FlexFabric 20Gb 2-port 650FLB	700763- B21	Broadcom	8.4	7.8, 7.9, 8.3	SLES 15 SP3	SLES 12 SP5
Adapter						SLES 15 SP2

Customers can use supported versions of RHEL (7.8, 7.9, 8.3) and supported versions of SUSE (SLES 12 SP5, SLES 15 SP2) for these adapters.

There is currently no planned or committed date to support RHEL 8.4 or SLES 15 SP3 for the 560 and 650 adapters on BladeSystems

For more information on HPE Operating Systems and Virtualization Software Support for ProLiant Servers, please visit our OS Support Site.

Prerequisites

Component Prerequisites

Pre-requisite for nfc-host-agent components

The following libraries which are part of Operating System distro are to be installed for the successful installation of nfc-host-agent rpm.

- libhuaetlbfs.so
- libuuid.so libuuid-devel is the library which has to be installed. For SuSE Linux Enterprise Server 12 service pack 4 and SuSE Linux Enterprise Server 12 service pack 5, this is part of Software Development Kit (SDK)

For NFC agent to work seamlessly, the following ports are required to be enabled on firewall:

- RDMA/4420
- tcp/3205
- udp/3206

nvme-cli package is part of this rpm and it may conflict with preinstalled nvme-cli, hence it is recommended to uninstall the default nvme-cli package before installing this rpm.

NVMe-Rdma Drivers are required to be installed for NFC agent to work seamlessly.

To determine prerequisite information, check the individual components.

SUM Prerequisites

The most current prerequisites for SUM can be found at the SUM documentation page https://www.hpe.com/info/sum-docs.

Limitations

Known Limitations

The following is a select list of known issues and limitations relating to the smart components and SUM version delivered with this SPP. For a full list, please visit the <u>SPP Download page</u>, select the "Hot Fixes & Advisories" tab, and the "Known Limitations" heading. This procedure can be followed for any currently listed SPP by selecting the preferred SPP version listed next to 'Currently Supported Versions' to open its version specific page.

- Integrated Lights-Out (iLO) Repository update for components updateable by the Unified Extensible Firmware Interface (UEFI) do not install, if the "Reboot" Parameter in Smart Update Manager (SUM) is set to "Never." See this <u>Customer Advisory</u> for more details.
- While performing iLO5 updates on Linux OS, the user may see multiple Windows firmware components listed for installation. This is expected behavior.
- Drivers and/or enablement kits must be installed prior to detecting and updating some hardware and firmware. You may have to run SUM twice to ensure all the firmware components required for the installation is present.

- There are several scenarios when SUM is run twice. SUM requires drivers to discover the
 needed hardware and firmware for installation. After the drivers are installed for the first time
 and the system rebooted, SUM must be run again to ensure that all the firmware
 components for the installation are present. The scenarios are:
- Network Adapters (NIC's), Host Bus Adapters (HBA's), and iLO require a driver or enablement kit to be installed in order to be recognized by SUM.
 The Linux firmware component for Emulex Fiber Channel Adapters and Linux firmware component for Marvell Fiber Channel Adapters requires that the target environment have the libHBAAPI package installed from your OS installation media.
- On Emulex systems, install the Fibre Channel Enablement Kit for Emulex HBAs prior to installing OneCommand Manager. If OneCommand Manager is already installed on the system and the Enablement Kit is not installed, uninstall OneCommand Manager, install the Enablement Kit, and then install the OneCommand Manager again.
- When running SUM on Windows, if the iLO Channel Interface Driver is not installed, the iLO firmware will show a version of 'None' as the installed version and 'Ready for Installation' as the status on the Select Bundle or Select Component page. This applies to firmware for iLO4 and iLO5. When attempting to update the firmware, it may fail to update if it is already up to date. Downgrade of iLO from 2017.10.0 to 2017.06.1 is not supported and will fail to update.
- When using SUM on Linux, the iLO Channel Interface Driver needs to be loaded from the operating system for the iLO firmware to display for installation.
- Broadcom NICs are not discovered by SUM unless the appropriate driver is installed, and all Ethernet ports are up. The Ethernet port can be brought up by using the following command:

ifup ethx
or
ifconfig ethx up

To update the firmware for Broadcom NIC, use the following steps:

- o Install the appropriate Windows or Linux driver found in the SPP.
- Enable all the Ethernet ports
- Run the Broadcom FW upgrade component
- Operating System support on the following HPE Converged Network Adapters is now
 frozen. There will be no Out-of-Box Drivers shipped or Online Firmware flash components
 provided for these adapters for the new Operating Systems listed below starting from
 2022.03.0 Service Pack for ProLiant. The only way to have the firmware updated in these
 Operating Systems is by launching the Service Pack for ProLiant in offline mode.

HPE Converged Network Adapters:

- ➤ HPE CN1200E Dual Port Converged Network Adapter
- ➤ HPE CN1200E-T Dual Port Converged Network Adapter
- ➤ HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter
- ➤ HPE FlexFabric 10Gb 2-port 556FLR-T Adapter

- > HPE FlexFabric 20Gb 2-port 650FLB Adapter
- ➤ HPE FlexFabric 20Gb 2-port 650M Adapter

Operating Systems not limited to:

- Red Hat Enterprise Linux 8 Update 4 or later
- SuSE Linux Enterprise Server 15 Service Pack 3 or later
- Microsoft Windows Server 2022 or later
- VMware vSphere 7.0 or later
- Smart Update Manager Custom baseline filtering for HPE ProLiant XL270d Gen10 Server and HPE ProLiant XL645d Gen10 Plus Server Components is in progress. This will be addressed in upcoming release of SUM and SPP.

Download & Deployment

The SPP can be downloaded from either the SPP Download page or the SPP Custom Download service. Both options require HPE Passport login and an active warranty or HPE support agreement.

To ensure the integrity of your download, HPE recommends verifying your results with the following SHA-256 Checksum values:

afa0494456caee4c1b517bda6f85e477217dcc2d3cf294ae51fa2e41a2c57c69	SPP2022030.2022_0225.22.iso
b4371804c732219453bccc50c95ca634581e39b1a5a88e8faec0101801c5ab0b	SPP2022030.2022_0225.22.iso.sha2sum

SPP Download Page

The SPP Download page enables downloading through the HPE Support Center and contains SPP specific information, including:

- A "Hot Fixes and Advisory" section listing Hot Fixes and Customer Advisories for the selected SPP.
- A "Documentation" section which contains a variety of SPP documentation, including Release Notes, Component Release Notes, Contents Report, Server Support Guide, and the SPP OS Guide.
- Navigation to the SPP Custom Download service

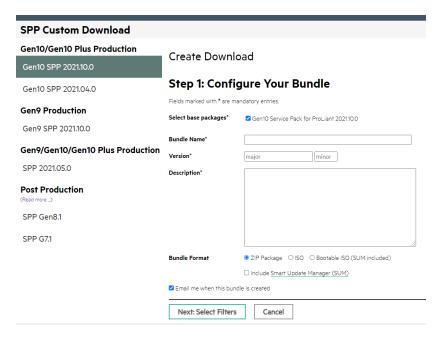
SPP Custom Download (https://www.hpe.com/servers/spp/custom)

SPP Custom Download provides an easy-to-use interface and facilitates reducing the size of the SPP by allowing filtering/customizing before downloading. Additionally, it offers convenient downloading of the SPP and the SPP plus related Supplements.

The Gen10/Gen10 Plus production SPP can be downloaded using HPE passport account, without the need for active warranty or support agreement.

Customizing the SPP download, can be done by:

- Select the appropriate SPP
- Click on the "Create a new bundle" tile (plus sign tile)
- Complete the "Configure Your Bundle" step with the applicable information of your choice and press "Next: Select Filters" button
- Example: To download only Supplements, deselect the SPP and ensure only the desired Supplement is selected.
- Select filters as needed (no selection in any given category means everything in that category will be included)
- Click the "Build" button
- Preview selected components and click "Submit Build" button
- Upon submission the build request is queued and will be processed as soon as possible
- Build completion is indicated on the new tile or through email notification, if selected



Installation

There are two methods for using the Service Pack for ProLiant to update your ProLiant servers: Online mode and Offline mode.

Online mode

- 1. Local host update Runs on a Windows or Linux hosted operating system.
 - Interactive mode Follow the onscreen steps to update firmware components
 To initiate deployment in interactive mode, run the launch_sum.bat (windows) or
 launch_sum.sh (Linux) script which is found in the root of the .iso image.
 - Automatic mode Drivers, software and firmware components will be updated without user interaction.
- 2. Remote Update- Runs on Windows or Linux hosted Operating System for remotely update client Operating system.
 - Interactive mode Follow the onscreen steps to update firmware components. To initiate deployment in interactive mode, run the launch_sum.bat (windows) or launch_sum.sh (Linux) script which is found in the root of the .iso image through client.

Offline mode - Server is booted to the .iso image

- Interactive mode Follow the onscreen steps to update firmware components.
- Automatic mode Firmware components will be updated without interaction. Automatic mode will by default run firmware update without any user interaction after sitting 10 seconds at the menu screen when an SPP .iso image is used to boot the server.

Installation Instructions

Follow these steps to install the components found on this SPP:

- 1. Download the Gen10/Gen10 Plus SPP 2022.03.0 .iso file from the SPP download page.
- 2. Determine how to access the data on the ISO bootable USB key, mounted ISO, etc. Use the appropriate tool to obtain the ISO in the desired format.
- 3. Determine how to initiate deployment to the targets using the SPP Offline mode or Online mode:
 - a Online mode Runs on a Windows® or Linux hosted operating system
 - b Offline mode Server boots from the SPP ISO (Bootable ISO only)
 - i Automatic mode Firmware components update without interaction
 - ii Interactive mode Onscreen instructions guide the user to update firmware components
- 4. Initiate deployment.

To initiate deployment in **online mode**:

- From the SPP folder:
 - Windows: launch sum.bat
 - o Linux: ./launch_sum
- For Online updates on a Gen10/Gen10 Plus VMware host requires the Agentless Management Service and iSUT for ESXi software to be installed on the VMware host.
- To review the EULA, locate README.html which is found in the root of the ISO.

For more information, see the SUM User Guide and HPE ProLiant Best Practices Implementation Guide. https://www.hpe.com/servers/spp/documentation

To initiate deployment in **Offline mode**:

- Boot the server to the SPP using one of the supported methods including mounting the ISO or using a bootable USB key.
- Select either Automatic mode or Interactive mode.
 - o If Automatic mode is selected, the firmware will be automatically updated on the server without any further interaction.
 - o If Interactive mode is selected, follow the instructions on the screen.
- Select the Firmware Update option on the screen to start SUM

Additional Information for using the SPP on Linux Operating Systems

Please refer to the following links for Technical Exception matrices for minimum OS support:

- Red Hat Enterprise Linux Red Hat Enterprise Linux
- SUSE Linux Enterprise Server SUSE Linux Enterprise Server

In the SLES15 distribution, the net-tools-deprecated utilities (arp, ifconfig, netstat and route) are not installed by default. Please install these utilities if you are using the SUM RPM. They are available at https://software.opensuse.org/package/net-tools-deprecated.

The SPP contains Linux drivers, agent software and firmware in a single ISO image. Alternatively, the SDR contains software repositories that may be used with software configuration managers (Yum, Zypper or Apt).

- For drivers and agent software, subscribe your system to the "spp" repository
- For firmware, subscribe your system to the "fwpp" repository

Additional Information for using the SPP on VMware Operating Systems

The SPP can deploy drivers and firmware to a Gen10/Gen10 Plus system running a supported VMware operating system in an online mode. Drivers are also available at Software Delivery Repository - vibsdepot.

Additional Resources

Hot Fixes

The Hot Fixes and the Customer Advisories for this SPP can be found by selecting the "Hot Fixes & Advisories" tab on the <u>SPP Download page</u>. The Customer Advisory can be reviewed to determine if the Hot Fix applies and determine which component(s) need to be downloaded. Individual Hot Fixes can be downloaded by selecting:

- 1. The grey + expander to the left of the Hot Fix Advisory to expand the list of associated downloadable component(s).
- 2. The title of the desired component to reveal its detail and download page.

All applicable Hot Fixes for this SPP are available for download on the <u>SPP Custom Download</u> page through the "SPP + Supplements" selection. To download only Hot Fixes:

- Select the "plus sign"
- Deselect the SPP and ensure only the Hot Fix Supplement Bundle is selected
- Provide name, version, description and format and then proceed with customization as desired

SPP Supplements

A supplement is an add-on bundle containing firmware, drivers, and/or applications released between SPPs. If the Supplement's contents include Linux components, the components will also be available on the <u>SDR</u>. The components in the supplement are rolled into the next release of the SPP.

- SPP Supplements can be downloaded from the <u>SPP Download page</u>.
- The Release Notes can be found on the SPP Download page Documentation Tab.

OS Supplements: An OS Supplement is a bundle containing software and/or firmware components. It includes support for a new operating system update, but works with the components in the SPP. Supplements allow HPE to deliver support when it is needed so customers do not have to wait on a full SPP's availability. Support for OS Supplements is included as part of the associated SPP's support period.

Using a PXE Server to Deploy Components from the full SPP ISO over a network

Follow these steps to use a PXE server to deploy components from the full SPP ISO over a network.

The files needed to configure the menu system for use with a 'pxe' server can be found in the PXE directory on the full SPP ISO.

Prerequisites

Pre-requisite for nfc-host-agent components

The following libraries which are part of Operating System distro are to be installed for the successful installation of nfc-host-agent rpm.

- libhugetlbfs.so
- libuuid.so libuuid-devel is the library which has to be installed. For SuSE Linux Enterprise
 Server 12 service pack 4 and SuSE Linux Enterprise Server 12 service pack 5, this is part
 of Software Development Kit(SDK)

For NFC agent to work seamlessly, the following ports are required to be enabled on firewall:

- RDMA/4420
- tcp/3205
- udp/3206

nvme-cli package is part of this rpm and it may conflict with preinstalled nvme-cli, hence it is recommended to uninstall the default nvme-cli package before installing this rpm.

NVMe-Rdma Drivers are required to be installed for NFC agent to work seamlessly.

On any HPE ProLiant Gen10/Gen10 Plus server running a Linux, Microsoft Windows Server or VMware Operating System, the firmware update on any of the Open network adapters, may not complete if the recommended driver (out of Box) is not installed and loaded before performing the firmware update

The following is required before proceeding with the configuration:

- The user must have a good working knowledge of PXE and TFTP.
- A network with a DHCP server on it.
- A TFTP server configured on the same network as the DHCP server.
- A network file server hosting the ISO images that can be accessed by a PXE booted system.
- Either PXELINUX (https://syslinux.zytor.com/wiki/index.php/PXELINUX) [For legacy boot mode] or GRUB2 (https://www.gnu.org/software/grub/) [For UEFI and legacy boot mode]

The use of a Linux TFTP server and the TFTP package

<u>https://www.kernel.org/pub/software/network/tftp/</u> is assumed. Other TFTP servers should work similarly.

Setup

Before proceeding with the configuration, ensure that the TFTP server as well as the PXELINUX or GRUB2 configuration are setup and configured properly. ELILO

(<u>https://sourceforge.net/projects/elilo/files/</u>) may be used also. GRUB2 is recommended for UEFI boot mode, legacy boot mode, or mixed environments where both legacy and UEFI boot mode support are required.

To set up PXE boot for the SPP:

- 1. Copy the SPP ISO image to the network file system and note its location. NFS and Windows® file shares as well as HTTP connections are supported.
- 2. For this example, the NFS path to the ISO image used is 192.168.0.99/path/to/spp/image/(SPPfilename).iso. Test the network file system to ensure that it is accessible before proceeding.
- 3. The /pxe directory of the ISO image will need to be accessed, either by burning the ISO image, mounting the ISO image, or extracting it using a third-party tool.
- 4. Copy all the files from the /pxe directory of the ISO image to the TFTP server so that they are accessible by the TFTP software. See important instructions and information in the /pxe/README.txt file (for legacy boot mode PXELINUX configuration).

Configuring GRUB2

Follow these steps to configure GRUB2:

- 1. Run the command grub2-mknetdir --net-directory=DIR where DIR is the root of the TFTP server.
- 2. Configure DHCP using the helpful output of the grub2-mknetdir command above (arch = 00:07 for UEFI boot mode and arch = 00:00 for legacy boot mode).
- 3. Edit the grub.cfg files on the TFTP server to set the appropriate paths to the kernel vmlinuz image file and the initial ramdisk initrd.img image file which were copied to the TFTP server from the SPP ISO /pxe directory.

Configuring ELILO

Follow these steps to configure ELILO:

- 1. Add an EFI folder on the TFTP server which contains bootx64.efi, elilomenu.msg, and elilo.conf.
- Add details in elilo.conf as it is given for configuring pxelinux.cfg (see below).
- 3. Change the DHCP configuration as given below:

```
if option arch = 00:07 {
          filename "pxelinux/bootx64.efi";
    } else {
          filename "pxelinux.0";
    }
```

Configuring PXELINUX

Follow these steps to configure PXELINUX:

1. Using the isolinux.cfg file from the /system/ directory of the ISO as a guide, copy the labeled targets to the PXELINUX configuration file. The entire file does not need to be included:

label sos

MENU LABEL Automatic Firmware Update Version 2022.03.0

kernel vmlinuz

append initrd=initrd.img media=cdrom root=/dev/ram0 splash guiet hp fibre cdcache showopts TYPE=AUTOMATIC AUTOPOWEROFFONSUCCESS=no **AUTOREBOOTONSUCCESS=yes**

label vsos

MENU LABEL Interactive Firmware Update Version 2022.03.0

kernel vmlinuz

append initrd=initrd.img media=cdrom root=/dev/ram0 splash quiet hp fibre cdcache showopts TYPE=MANUAL AUTOPOWEROFFONSUCCESS=no

label sos poweroff

MENU HIDE Automatic & POWEROFF Firmware Update Version 2022.03.0

kernel vmlinuz

append initrd=initrd.img media=cdrom root=/dev/ram0 splash quiet hp fibre cdcache showopts TYPE=AUTOMATIC hp poweroff



The paths to files on the TFTP server are vmlinuz and initrd.img. They must be modified to include any directories or naming conventions that are on the TFTP server.

2. Replace "media=cdrom" with "media=net" on the append line

3. Specify the ISO image path. For the PXE booted server to find the ISO Image, add the ISO Image path to the append line in the PXELINUX configuration file. Add the following arguments:

iso1=nfs://192.168.0.99/path/to/spp/image/(SPPfilename).iso iso1mnt=/mnt/bootdevice

The iso1 parameter helps the PXE booted SPP locate the ISO image. The iso1mnt parameter tells the PXE booted SPP where the iso1 image must be mounted.

The final configuration file must be similar to the following example:

label sos

MENU LABEL Automatic Firmware Update Version 2022.03.0

kernel vmlinuz

append initrd=initrd.img media=net root=/dev/ram0 splash quiet hp_fibre showopts TYPE=AUTOMATIC AUTOPOWEROFFONSUCCESS=no AUTOREBOOTONSUCCESS=yes iso1=nfs://192.168.0.99:/path/to/spp/image/(SPPfilename).iso

iso1mnt=/mnt/bootdevice

label vsos

MENU LABEL Interactive Firmware Update Version 2022.03.0

kernel vmlinuz

append initrd=initrd.img media=net root=/dev/ram0 splash quiet hp_fibre showopts TYPE=MANUAL AUTOPOWEROFFONSUCCESS=no iso1=nfs:// 192.168.0.99:/path/to/spp/image/(SPPfilename).iso

iso1mnt=/mnt/bootdevice

label sos_poweroff

MENU HIDE Automatic & POWEROFF Firmware Update Version 2022.03.0

kernel vmlinuz

append initrd=initrd.img media=net root=/dev/ram0 splash quiet hp_fibre showopts TYPE=AUTOMATIC hp_poweroff

iso1=nfs://192.168.0.99:/path/to/spp/image/(SPPfilename).iso

iso1mnt=/mnt/bootdevice

Additional ISO images can be added by specifying the additional iso# and iso#mnt arguments, for example, iso2=/path/to/iso2.iso iso2mnt=/mnt/iso2.

Supported network file system protocols

The following network file system protocols are supported for use with PXE booting:

NFS:

iso1=nfs://192.168.0.99/path/to/spp/image/(SPPfilename).iso

iso1mnt=/mnt/bootdevice

NFS volumes are mounted with the following options:

- o -o ro
- o nolock

The mount options can be explicitly set with the iso#opts parameter

iso1opts="rsize=32768,ro,nolock"

Windows® operating systems:

iso1=cifs://192.168.0.99/share/path/to/spp/image/ (SPPfilename).iso iso1mnt=/mnt/bootdevice

Windows® operating systems with login credentials:

iso1=cifs://user:password@192.168.0.99/share/path/to/spp/image/(SPPfilename).iso iso1mnt=/mnt/bootdevice

HTTP:

iso1=http://192.168.0.99/path/to/spp/image/(SPPfilename).iso iso1mnt=/mnt/bootdevice

Once these steps have been completed, the SPP components are ready to be deployed using the PXE boot functionality.

Common Abbreviations

Abbreviations	Name
AMS	Agentless Management Service
CNA	Converged Network Adapter
CNU	Converged Network Utility
НВА	Host Bus Adapter
iLO	Integrated Lights-Out
MSB	Maintenance Supplement Bundle
OA	Onboard Administrator
RHEL	Red Hat Enterprise Linux
SIM	Systems Insight Manager
SLES	SUSE Linux Enterprise Server
SPP	Service Pack for ProLiant
SUT	Smart Update Tool
SUM	Smart Update Manager
UEFI	Unified Extensible Firmware Interface