Abstract

This release notes document describes best practices, known issues and limitations for the HPE Synergy Image Streamer 5.0 release.
Notices

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Introduction

HPE Synergy Image Streamer release notes provide release information for HPE Synergy Image Streamer and are intended for users who use Image Streamer management interface. The following information about the Image Streamer 5.0 release is included:

- New features for this release
- Fixes for this release
- Known issues and limitations
- Addendum

Release information

For Image Streamer installations, the HPE Synergy firmware configuration must be compliant with HPE Synergy Software Release for HPE Synergy Composer 5.0 and HPE Synergy Image Streamer 5.0 management pair. For information on HPE Synergy Software Releases, see http://www.hpe.com/downloads/Synergy.
New features for this release

**Preupdate health checks**

When you update from 5.0, the appliance checks for issues that might cause the update to fail and provides appropriate warnings.

**Support for new interconnect module**

HPE Virtual Connect SE 100Gb F32 Module for HPE Synergy is supported with Image Streamer.

**Qualified new operating systems and file systems**

Image Streamer 5.0 has qualified deployment and personalization for Red Hat Enterprise Linux 7.6, VMware ESXi 6.7 u2, VMware ESXi 6.7 u3, SLES 12 SP3, and SLES 12 SP4 operating systems.

Image Streamer 5.0 has also qualified use of all file systems for Red Hat Enterprise Linux and SLES 12 SP4.

**Support for deployment and personalization of SLES and RHEL containing xfs and btrfs file systems**

This feature allows you to use Image Streamer to perform SLES and RHEL deployments or personalization with xfs and btrfs file systems, in addition to the existing ext3 and ext4 file systems.
Deprecated features

Advanced Management Virtual Machine (AMVM)

As of Image Streamer 5.0, Advanced Management Virtual Machine is deprecated. For more information, contact your authorized support representative.
Fixes for this release

The following issues are fixed in the 5.0 release of Image Streamer:

**Order of newly added step in a Build Plan is not retained**
When you add and reorder a new step and then delete another existing step in the Build Plan, the newly added step moves to the end of the list.

**No differentiation between Artifact bundles and Backup bundles**
There were no restrictions on extracting a backup bundle and restoring from an artifact bundle.

**A Deployment Plan used by multiple HPE OneView server profiles displays that it is used by only one server profile**
When a Deployment Plan is used by 20 or more server profiles, the Deployment Plan screen displays *Used by 1 server profile*. Clicking on the server profile link opens a blank page. A similar issue exists with a Deployment Plan that is used by 20 or more server profile templates.

**Editing or removing the ImageStreamer deployment network leads to association errors**
When you edit a deployment network to remove Image Streamer and then delete the OS Deployment Server, the deployment network does not clear the association with the deleted deployment cluster.

**Custom attributes in the HPE OneView server profile or server profile template do not reset when the Deployment Plan is changed**
When you edit the HPE OneView server profile or server profile template to change the Deployment Plan, the custom attributes are not updated to the attributes in the new Deployment Plan.
Known issues and limitations

Known issues

Security vulnerabilities in CPUs may allow information disclosure

**Symptom**

On May 14, 2019, Intel and other industry partners shared details and information about a new group of vulnerabilities collectively called Microarchitectural Data Sampling (MDS). These security vulnerabilities in CPUs may allow information disclosure. Intel is releasing microcode updates (MCU) to support mitigation of these potential vulnerabilities. These are coupled with corresponding updates to operating system and hypervisor software. More details are available through CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, CVE-2019-11091 and Intel Security Advisory.

**Action**

This issue can be mitigated by allowing only trusted Software Administrators to access Image Streamer.

Critical alert seen on operating system deployment server page after secondary pair of Image Streamer appliances is powered on

**Symptom**

In a multi logical enclosure setup, if you shutdown one of the secondary pairs and perform Change Primary then try to power on the previously shutdown secondary pair, it fails. A critical alert is displayed on the operating system deployment server page.

**Action**

To resolve this issue, contact the authorised customer support team.

Link for Management Network under Deployment Groups blinks constantly

**Symptom**

You can access a particular management network page in HPE OneView user interface by clicking the link provided under Management Network in Deployment Groups screen of the Image Streamer user interface. However, the link constantly blinks making it difficult for you to click.

**Action**

No action required.

Image Streamer 5.0 displays the localized help from Image Streamer 4.2

**Symptom**

Image Streamer 4.2 Japanese and Simplified Chinese online help is included in Image Streamer 5.0 initial release.
Action

The latest Image Streamer 5.0 Japanese and Simplified Chinese online help document is available at the Hewlett Packard Enterprise Information Library. The first patch of Image Streamer 5.0 will include the latest Image Streamer 5.0 Japanese and Simplified Chinese online help.

Limitations

The following are the limitations in using the Image Streamer appliance:

**The elapsed time for suspended tasks does not refresh automatically**

On the Activity screen, the elapsed time for suspended tasks does not refresh automatically.

**Change in locale does not display full screen in desired language**

When you change the browser locale to a non English language, the user interface still contains some content that is displayed in English. Only the top level messages in the user interface reflect the locale change.

**API Doc for OS Volumes**

The API Doc for OS volumes currently uses the id instead of name while executing the GET command. Hewlett Packard Enterprise recommends that while executing the GET command, use the name instead of the id.

For example, GET https://(appl)/rest/os-volumes/archive/OSVolume1

Where, OSVolume1 is the name of the archived OS Volume.

**Image Streamer is not FIPS compliant and is not supported with FIPS enabled on HPE Synergy Composer**

Image Streamer is not Federal Information Processing Standard (FIPS) compliant and is not supported with FIPS enabled on HPE Synergy Composer. While this check is not enforced, the configuration is not a supported production configuration.

**Changing a primary deployment appliance in a multi enclosure setup**

When you are changing the primary deployment appliance in a multi enclosure setup, you cannot choose a new primary deployment appliance that does not have a logical enclosure configured.

**Adding labels to resources**

Adding labels to resources in the Image Streamer appliance is not supported.

**Limitations for HPE Image Streamer residing in enclosures in remote management rings**

- **Power Management**
  
  - HPE OneView displays the power state of remote ring HPE Image Streamer as Unknown.
  
  - HPE OneView does not support powering on a remote ring HPE Image Streamer appliance.

- **Hardware Alerts**

  When the iLOs of remote ring HPE Image Streamer appliance generate alerts, HPE Composer/OneView appliances do not receive those alerts. However, HPE Composer/OneView appliances including management and storage cluster health receive all alerts and status that HPE Image Streamer appliance firmware generates.

- **Remote Support**

  HPE Composer/OneView embedded remote support service does not support remote ring HPE Image Streamer appliance.
**OS deployments might fail if you use non default directories for operations in Plan Scripts**

A unique default directory `/tmp/user_scratch/<directory_name>` is created for each deployment and is assigned as the home directory. Restrict all actions in Plan Scripts within this directory. If you use any other directory on the appliance, future OS deployments might fail.

**Configuration changes cannot be performed when the primary appliance is unavailable**

You must not perform any configuration changes such as replacing an appliance when the primary appliance is not functional.

**A standby appliance is in a powered off state by default when it is removed and reinserted**

When you remove a standby appliance and reinsert it, it powers off by default after some time. You must power on the appliance manually from the **Enclosures** page in HPE OneView and reinsert it again.
Appliance installation and update

Installation instructions

If you are installing any Image Streamer version on a new appliance, see HPE Synergy Image Streamer Deployment Workflow available at the Hewlett Packard Enterprise Information Library for the first time setup and installation.

Updating HPE Synergy Image Streamer to version 5.0

The HPE Synergy Composer update to version 5.0 requires five hours. The HPE Synergy Image Streamer update to version 5.0 requires five hours for updating all Image Streamer pairs. Hewlett Packard Enterprise recommends that the HPE Synergy Composer and Image Streamer updates be performed sequentially.

**NOTE:** HPE Synergy Composer updates must be completed before you update Image Streamer. Also, whenever you schedule an Image Streamer update, all Image Streamer appliance pairs must be updated in a single session.

When you are unable to update Image Streamer immediately after the HPE Synergy Composer updates are complete, schedule the Image Streamer update window, as soon as possible, within a maximum of two weeks from the time you updated HPE Synergy Composer. In this scenario, there is a period of time when HPE Synergy Composer is on version 5.0 and Image Streamer is on version 4.x.

**NOTE:** For details about HPE Synergy Composer update timings and requirements, see HPE OneView 5.0 Release Notes for HPE Synergy available at the Hewlett Packard Enterprise Information Library.

When HPE Synergy Composer and Image Streamer are on different versions, the following verification checks and restrictions apply:

**Verification checks**

Before updating HPE Synergy Composer to version 5.0, verify that:

- The health status of all Image Streamer pairs is **OK**.
  - Check and resolve alerts involving Image Streamer that are displayed on the OS Deployment Server and Enclosure screens in HPE OneView.
  - Check and resolve alerts on Deployment Appliance screen in Image Streamer.
- Check and resolve critical alerts that indicate issues with high availability to the OS volumes. Some examples include:
  - Alert about degraded OS volume on the Server Profiles screen in HPE OneView.
  - Alerts on Logical Interconnects screen in HPE OneView.

If there are any critical issues, resolve the issues involving Image Streamer before updating HPE Synergy Composer to version 5.0. Doing so avoids the necessity of any operation on Image Streamer when HPE Synergy Composer and Image Streamer are on different versions.

**Restrictions**

- Do not modify any configuration for any component in the HPE Synergy environment.
  - Limit hardware replacements to replacing only damaged hardware.
  - Do not apply patch updates on any component.
Do not perform any management operations such as changing the primary deployment appliance, restoring Image Streamer artifacts, or any changes to or renewal of certificates.

Do not create, edit, or delete an HPE OneView server profile that is associated with an Image Streamer OS Deployment Plan.

Do not perform any new Image Streamer operations. The existing workloads continue to operate unaffected.

Do not perform any new deployments.

Do not capture an OS image.

Do not create, edit, or delete any Image Streamer artifacts. Artifacts include Plan Scripts, OS Build Plans, Golden Images, and OS Deployment Plans.

Update instructions

NOTE: Before starting an update, the appliance checks for issues that may prevent update from completing successfully and reports an appropriate warning.

Prerequisites

• See Updating HPE Synergy Image Streamer to version 5.0

• Verify that you have the right version of HPE OneView and HPE Image Streamer to start the upgrade. Refer https://www.hpe.com/downloads/synergy for the supported upgrade path.

• Log in as Infrastructure administrator to update an appliance.

• Download the correct update.bin file from https://www.hpe.com/downloads/synergy.

• Back up the appliance that is undergoing an update. For instructions on how to back up your data on the appliance, see HPE Synergy Image Streamer Online Help.

Procedure

1. Select Deployment Appliances from the main menu.

2. Click Actions on the Deployment Appliances screen and select Update Appliance.

3. Perform one of the following:

   a. Choose Select an update image to upload an update image.

   b. Drag and drop the required .bin file or click Browse to select a file.

      • Click Upload and install to upload and install an image. Once the upload is complete, a dialog appears. Click Update to update the appliance.

      • Click Upload only to upload the image on the appliance. This operation does not initiate the update process.

   c. Click Update from uploaded image to use a previously uploaded image for updating the appliance.

      • Click Update to perform the appliance update.

      • If you are updating on a configuration where multiple Image Streamer Deployment appliances are configured, update the Primary Deployment appliance first before uploading the update image on the other Deployment
Appliances. After Primary Deployment Appliance update is completed, upload and update each Deployment Appliance in sequence.

**NOTE:** In a multienclosure setup, an attempt to upload and update all the logical enclosures concurrently will fail.
Documentation notes

• For every product release, the HPE Synergy Image Streamer Help can be accessed in two ways:
  ◦ Product version: From the Help Sidebar in the Image Streamer user interface
  ◦ Online version: As an HTML file published at the Hewlett Packard Enterprise Information Library

If there are any updates after including the help file with the product, the online document at the Hewlett Packard Enterprise Information Library is updated and published. Such updates can be found in the online version and will be included in the product version for the subsequent releases.

• Availability of localized documents might vary for each release of the product. For latest updates, refer to the English version of the document for a particular release.
HPE Synergy simplified firmware and driver distribution

HPE Synergy is releasing firmware and driver updates through HPE Synergy Software Releases. The Release Sets define the versions of HPE Synergy Composer, HPE Synergy Image Streamer, and the HPE Synergy Custom SPP (Service Pack for ProLiant) bundle that must be used together, eliminating the need to track and update individual firmware and drivers for your HPE Synergy system.

To access HPE Synergy Software Releases through the Software Depot home page, go to [www.hpe.com/support/softwaredepot](http://www.hpe.com/support/softwaredepot), and choose Composable Infrastructure, and then Synergy Software/Firmware Updates.

Each Synergy Software Releases contains HPE Synergy firmware and drivers qualified and released as HPE Synergy Software Releases. These HPE Synergy Software Releases contain the following:

- HPE Synergy Composer firmware bundle, including HPE OneView
  - Includes an update bundle and/or a re-image file.

- HPE Synergy Image Streamer firmware bundle
  - Includes an update bundle and/or re-image file.

- HPE Synergy Custom SPP Bundle
  - A subset of the full SPP that is contoured for HPE Synergy.
  - Includes all hotfixes that apply to the HPE Synergy solution.

- Links to firmware for non-HPE OneView managed switches.

**NOTE:** There are additional web pages that you will have to either enter your credentials on or select additional links. Please continue through these pages until you get to the applicable feature set page.

Each Synergy Software Release is tested to verify the versions of all the components work together. Hewlett Packard Enterprise recommends that HPE Synergy systems be updated with the most current Synergy Software Releases every 12 months, at minimum.
The Hewlett Packard Enterprise Information Library ([https://www.hpe.com/info/synergy-docs](https://www.hpe.com/info/synergy-docs)) provides a comprehensive, one stop location for all HPE Synergy documentation, including installation instructions, user guides, maintenance and service guides, best practices, and links to additional resources. The Library supports filtering to improve findability.

<table>
<thead>
<tr>
<th>Document:</th>
<th>Provides:</th>
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<tbody>
<tr>
<td><strong>HPE Synergy Solution</strong></td>
<td></td>
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<tr>
<td>Start Here Poster</td>
<td>First-time setup procedure of an HPE Synergy solution, from hardware installation to HPE OneView configuration.</td>
</tr>
<tr>
<td>Release Notes</td>
<td>Release descriptions, new features, documentation updates, and issues and suggested actions for products like HPE Synergy, HPE Synergy Image Streamer, and HPE OneView.</td>
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<tr>
<td>Migration Guide</td>
<td>Information about migrating from HPE Synergy Composer to HPE Synergy Composer2 and from HPE Synergy Frame Link Module to HPE Synergy 4-port Frame Link Module.</td>
</tr>
<tr>
<td>Validating HPE Synergy appliance firmware: Preparing an HPE Synergy appliance for first-time setup</td>
<td>Procedures for preparing an HPE Synergy appliance for initial use in a system.</td>
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<tr>
<td>Appliance User Guide</td>
<td>Outlines appliance module management, configuration, and security.</td>
</tr>
<tr>
<td>Cabling Guide</td>
<td>Cabling examples for management network, HPE Synergy Image Streamer, interconnects, and power.</td>
</tr>
<tr>
<td>Configuration and Compatibility Guide</td>
<td>An overview of HPE Synergy management and fabric architecture, detailed hardware component identification, and configuration requirements for hardware components.</td>
</tr>
<tr>
<td>Frame Link Module User Guide</td>
<td>Management, configuration, and security information for the HPE Synergy 4-Port Frame Link Module, HPE Synergy Frame Link Module, and HPE Synergy Management Console.</td>
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<tr>
<td>Power Management Overview Guide</td>
<td>For individuals wanting to gain additional details on how HPE Synergy manages power usage in an HPE Synergy 12000 Frame.</td>
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<tr>
<td>Troubleshooting Guide</td>
<td>Information for resolving common problems and courses of action for fault isolation and identification, issue resolution, and maintenance.</td>
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<tr>
<td>Error Message Guide</td>
<td>Information for resolving issues associated with specific error messages.</td>
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<tr>
<td>Documentation Map</td>
<td>A descriptive map to filter and locate the HPE Synergy documentation you need.</td>
</tr>
<tr>
<td>Glossary</td>
<td>Terminology, descriptions, and drawings to provide an understanding of the product and to help familiarize with the HPE Synergy ecosystem.</td>
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**HPE Synergy Image Streamer**

<table>
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<th>Document:</th>
<th>Provides:</th>
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<tr>
<td>Deployment workflow</td>
<td>Interactively describes the various steps involved in setting up HPE Synergy Image Streamer for OS deployment and has pointers to the different documents that contain detailed instructions on the steps.</td>
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*Table Continued*
Provides:

Support Matrix
The latest software and firmware requirements, supported hardware, and configuration maximums for HPE Synergy Image Streamer.

User Guide
The OS deployment process using HPE Synergy Image Streamer, features of HPE Synergy Image Streamer, and purpose and life cycle of HPE Synergy Image Streamer artifacts. Also includes authentication, authorization, and troubleshooting information for HPE Synergy Image Streamer.

GitHub
The repository (github.com/HewlettPackard) contains sample artifacts and documentation on how to use the sample artifacts. Also contains technical white papers explaining deployment steps that can be performed using HPE Synergy Image Streamer.

Help
Information about basic HPE Synergy Image Streamer concepts and user interface based tasks.

HPE OneView for HPE Synergy

Support Matrix for HPE Synergy
The latest software and firmware requirements, supported hardware, and configuration maximums for HPE OneView.

User Guide and Help for HPE Synergy
Resource features, planning tasks, configuration quick start tasks, navigational tools for the graphical user interface, and more support and reference information for HPE OneView.

Global Dashboard User Guide and Help
Instructions for installing, configuring, navigating, and troubleshooting the HPE OneView Global Dashboard.

Troubleshooting resources
Troubleshooting screens within the tool, online help, and a troubleshooting chapter in the user guide.

HPE Synergy firmware update resources

Firmware and Driver Update Guide
Information on how to update the firmware and recommended best practices to update firmware and drivers through HPE OneView.

The HPE Synergy Software Release Information site (http://www.hpe.com/info/synergy-sw-release-information) provides an interactive resource for firmware update information. HPE Synergy firmware update resources are also available within HPE OneView.
Figure 1: HPE Synergy Software Release Information

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<th>HPE Synergy Software Release Information site</th>
<th>Provides:</th>
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<tr>
<td>Firmware Comparison Tool</td>
<td>A list of HPE Synergy Management Combinations to use to compare HPE Synergy Custom SPPs supported by the selected HPE Synergy Management Combination.</td>
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<tr>
<td>Firmware Feature Table</td>
<td>A list of firmware features to use to compare HPE Synergy Custom SPPs supported by the selected HPE Synergy Management Combination.</td>
</tr>
<tr>
<td>Upgrade Paths Table</td>
<td>Information on HPE Synergy Composer and HPE Synergy Image Streamer upgrade paths and HPE Synergy Management Combinations.</td>
</tr>
<tr>
<td>VMware Support</td>
<td>Information and requirements for using the VMware vSphere OS with HPE Synergy Custom SPPs.</td>
</tr>
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</table>
## HPE Synergy document overview (documentation map)

**www.hpe.com/info/synergy-docs**

### Planning
- HPE Synergy Migration Guide
- HPE Synergy 12000 Frame Site Planning Guide
- HPE Synergy Configuration and Compatibility Guide
- HPE OneView Support Matrix for HPE Synergy
- HPE Synergy Image Streamer Support Matrix
- Setup Overview for HPE Synergy
- HPE Synergy Software Overview Guide

### Installing hardware
- HPE Synergy Start Here Poster (included with frame)
- HPE Synergy 12000 Frame Setup and Installation Guide
- Rack Rails Installation Instructions for the HPE Synergy 12000 Frame (included with frame)
- HPE Synergy 12000 Frame Rack Template (included with frame)
- Hood labels
- User guides
- HPE Synergy Cabling Guide
- HPE OneView Help for HPE Synergy — Hardware setup

### Configuring for managing and monitoring
- HPE OneView Help for HPE Synergy
- HPE OneView User Guide for HPE Synergy
- HPE OneView API Reference for HPE Synergy
- User Guides
- HPE Synergy Firmware Comparison Tool
- HPE Synergy Upgrade Paths (website)

### Managing
- HPE OneView User Guide for HPE Synergy
- HPE Synergy Image Streamer Help
- HPE Synergy Image Streamer User Guide
- HPE Synergy Image Streamer API Reference
- HPE Synergy Image Streamer deployment workflow
- HPE Synergy 4-Port Frame Link Module User Guide
- HPE Synergy Frame Link Module User Guide

### Monitoring
- HPE OneView User Guide for HPE Synergy
- HPE OneView Global Dashboard User Guide

### Maintaining
- Product maintenance and service guides
- HPE OneView for Synergy Firmware and Driver Update Guide
- HPE OneView Help for HPE Synergy
- HPE OneView User Guide for HPE Synergy
- HPE Synergy Appliances Maintenance and Service Guide

### Troubleshooting
- HPE OneView alert details
- HPE Synergy Troubleshooting Guide
- Error Message Guide for HPE ProLiant Gen10 servers and HPE Synergy
- Integrated Management Log Messages and Troubleshooting Guide for HPE ProLiant Gen10 and HPE Synergy
- HPE OneView API Reference for HPE Synergy
- HPE Synergy Image Streamer API Reference
Websites

General websites
Hewlett Packard Enterprise Information Library
www.hpe.com/info/EIL
Hewlett Packard Enterprise Support Center
www.hpe.com/support/hpesc
Contact Hewlett Packard Enterprise Worldwide
www.hpe.com/assistance
Subscription Service/Support Alerts
www.hpe.com/support/e-updates
Software Depot
www.hpe.com/support/softwaredepot
Customer Self Repair
www.hpe.com/support/selfrepair

Product specific websites
HPE Synergy Image Streamer Documentation
www.hpe.com/info/synergy-imagestreamer-docs
HPE Synergy Documentation
www.hpe.com/info/synergy-docs
HPE Image Streamer github
https://github.com/HewlettPackard/image-streamer-tools
Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:
  http://www.hpe.com/info/assistance
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:
  http://www.hpe.com/support/hpesc

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.

- To download product updates:
  Hewlett Packard Enterprise Support Center
  www.hpe.com/support/hpesc
  Hewlett Packard Enterprise Support Center: Software downloads
  www.hpe.com/support/downloads
  Software Depot
  www.hpe.com/support/softwaredepot

- To subscribe to eNewsletters and alerts:
  www.hpe.com/support/e-updates

- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center More Information on Access to Support Materials page:
  www.hpe.com/support/AccessToSupportMaterials

⚠️ IMPORTANT: Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.
Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

http://www.hpe.com/support/selfrepair

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information
HPE Get Connected
www.hpe.com/services/getconnected
HPE Proactive Care services
www.hpe.com/services/proactivecare
HPE Datacenter Care services
www.hpe.com/services/datacentercare
HPE Proactive Care service: Supported products list
www.hpe.com/services/proactivecareSupportedProducts
HPE Proactive Care advanced service: Supported products list
www.hpe.com/services/proactivecareAdvancedSupportedProducts

Proactive Care customer information
Proactive Care central
www.hpe.com/services/proactivecarecentral
Proactive Care service activation
www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

To view the warranty information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options
www.hpe.com/support/ProLiantServers-Warranties
HPE Enterprise and Cloudline Servers
www.hpe.com/support/EnterpriseServers-Warranties
HPE Storage Products
www.hpe.com/support/Storage-Warranties
HPE Networking Products
www.hpe.com/support/Networking-Warranties
Regulatory information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

www.hpe.com/info/reach

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

www.hpe.com/info/ecodata

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

www.hpe.com/info/environment

Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hpe.com). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.