



Hewlett Packard
Enterprise

HPE OmniStack 4.1.1U1 for vSphere Release Notes

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HPE OmniStack Release Notes

This document contains important product information and restrictions for HPE OmniStack software from Hewlett Packard Enterprise Corporation.

HPE OmniStack for vSphere consists of the software installed on your platform, including the following software that you use to manage the HPE OmniStack virtual objects:

- HPE SimpliVity Plug-in for vSphere Client
- HPE OmniStack CLI
- HPE OmniStack REST API

New in this release

HPE OmniStack 4.1.1U1 for vSphere adds these features:

Feature	Description
Platform	<p>New HPE SimpliVity 325 Gen10 Plus V2 platform comprising:</p> <ul style="list-style-type: none">• AMD 3rd Gen EPYC™ 7003 family of CPUs with options of 16/24/32/64 core support.• 4/6/8 drives options per node.• PCI 4.0 and OCP support for the first time. <hr/> <p>Storage Expansion for HPE SimpliVity 380 G:</p> <ul style="list-style-type: none">• Ability to add drives to a SimpliVity node in the field to introduce three predefined upgrades as follows:<ol style="list-style-type: none">1 Gx6 to Gx8 (Small Upgrade Kit).2 Gx8 to Gx12 (Medium Upgrade Kit).3 Gx12 to Gx16 (Large Upgrade Kit).<ul style="list-style-type: none">• Both Read-Intensive (RI) and Mixed-Use (MU) drive kits are supported.• Redeployment or Factory reset of nodes are required which are undergoing storage expansion.• Minimal kit proliferation. Upgrade Kits are incremental jumps only, for example, Gx6 to Gx8 but not Gx6 to Gx12.• Only supported on HPE SimpliVity 380 G models.• Point-next/Support-led procedure/documentation which means that you are not expected to perform the pre-deploy manufacturing work.



Feature	Description
HPE Cloud Bank integration	<p>HPE OmniStack supports the ability to perform backup restore operations to HPE StoreOnce Catalyst Cloud Bank. This provides a low-cost, external cloud storage solution for long term retention of backup copies. Along with the UI, the following commands were modified to work with HPE StoreOnce Catalyst Cloud Bank stores:</p> <ul style="list-style-type: none"> • svt-external-store-register • svt-external-store-unregister • svt-external-store-show • svt-backup-show • svt-backup-copy • svt-backup-retention-set • svt-backup-delete • svt-backup-restore • svt-vm-restore
Security	<p>Support for TLS 1.2 that enables a federation to only support TLS 1.2 and above for all TLS communications. You must have a version of vCenter that supports TLS 1.2 for communicating with HPE SimpliVity. vCenters having TLS versions below TLS 1.2 are not supported.</p> <hr/> <p>The following HPE OmniStack CLI commands were removed from this release:</p> <ul style="list-style-type: none"> • svt-rbac-group-role-add • svt-rbac-group-role-remove • svt-rbac-group-role-show <p>They were replaced with the following PowerShell CLI commands:</p> <ul style="list-style-type: none"> • Set-HPESvtRbacRoleAssignment • Remove-HPESvtRbacRoleAssignment • Get-HPESvtRbacRoleAssignment <hr/> <p>An audit log of CLI commands is enabled by default on a fresh HPE OmniStack installation and on upgrade. All shell commands and CLI commands issued by a user (HMS and EA), and the user's identity, are stored locally in the HPE OmniStack host in text format.</p> <hr/> <p>By default, a self-signed certificate is configured for Port 443 for REST services. You have the option to replace this certificate with a Certificate Authority (CA) signed certificate to enable more secure communications. For more information, see the HPE OmniStack Administration Guide.</p>
ESXi version support	<p>Beginning with HPE SimpliVity 4.1.1, support for vSphere 6.5 is removed. HPE SimpliVity Deployment Manager no longer supports deployment of HPE SimpliVity OmniStack with ESXi 6.5. HPE SimpliVity Upgrade Manager will require upgrading HPE SimpliVity hosts running ESXi 6.5 to ESXi 6.7 or later when upgrading the HPE OmniStack Virtual Controller software to 4.1.1 or later.</p>



Feature	Description
Backup reporting	You can now use the HPE SimpliVity Plug-in to generate a report about the backups in a cluster for a specified time period on a peer-managed federation.
External store enhancements	You can now: <ul style="list-style-type: none"> • Filter external store backups by cluster ID or store-type. • Set retention times on external backups using the UI. • Resume interrupted backups using checkpoints. • Restore faster by only transferring unique data.
Digital signature verification during upgrade	The Upgrade Manager verifies the integrity and authenticity of the upgrade artifacts by using a digital signature. For more information, see <i>Verify the digital signature of Upgrade Artifacts through the Upgrade Manager</i> in the HPE OmniStack 4.1.1U1 for vSphere Upgrade Guide.
Maintenance mode operation	During an ESXi and Firmware upgrade, hosts need to be in maintenance mode. Entering and exiting maintenance mode has been improved to smoothen the upgrade process.
Decoupled ESXi and Firmware upgrade release from the HPE OmniStack release	ESXi and Firmware upgrade releases are released independently of HPE OmniStack releases. The 4.1.1U1 Upgrade Manager is enhanced to accept and upgrade future ESXi and Firmware versions, compatible with HPE SimpliVity OmniStack Software.

Fixed in this release

This release of HPE OmniStack software fixes the following issues.



Category	Description
General	<p>OMNI-97386: Cannot log into a Virtual Controller with Active Directory or SSO Administrator accounts. HPE OmniStack host join failure.</p> <p>OMNI-89352: After removing an HPE OmniStack host from a federation, a subsequent attempt to join a host to the federation failed. Transaction logs are now properly managed to handle this condition without error.</p> <p>Socket leak issues. Remediation for leak issues OMNI-95510 and OMNI-97078.</p> <p>Resource leak OMNI-93196: Destruction of a base vault fails to erase all records associated with base vault in Paxos database, resulting in a small resource leak.</p> <p>OMNI-104730: BIND GSSAPI server subject to buffer overflow vulnerability. Updated host.</p> <p>OMNI-104464: Analytics DB and data files become full. Changes to limit the history of flat files and DB, improve pruning of files, and restrict their growth.</p> <p>OMNI-101179: The dsv-obt-ping command option processing is out-of-sync between client and server. dsv-obt-ping DSV client command updated to accept --useFastPath option and passed down to OBT DSV server.</p> <p>OMNI-100146: Invalid NIC info on one host is causing web client connectivity issues. Rectified by adding a Null pointer check before fetching the value from the guest_NIC_info object.</p> <p>OMNI-100071: Socket leaks experienced while running 3.7.10.205 and 4.0.1. Rectified by ensuring that the running negotiator is cleaned up and removed from the tracking table.</p> <p>OMNI-77905: TIA firmware script NOT systemd compliant - still upstart. Rectified by changing upstart specific service check and stop commands to systemd specific commands, with processes changed to run in foreground to be compatible with systemd behaviour.</p>

Category	Description
Upgrade	<p>OMNI-89076: Upgrade "Failed: Firmware applied booting the host" when upgrading SVA, ESXi & Firmware. Added persistent volume check for blocking a firmware upgrade if the current firmware version requires a hop.</p> <p>OMNI-94618, FI-3837: Upgrades failed when trying to display the inventory in Upgrade Manager. Disabled button once clicked.</p> <p>OMNI-94079, FI-3837: Obtaining inventory details failed in Upgrade Manager when validation of the hypervisor management system session failed. Restarting Upgrade Manager to resolve this issue is no longer required.</p> <p>OMNI-94137, FI-3927: Rollback failed to complete after an upgrade failure. Changed the rollback script to be more robust in failure scenarios.</p> <p>OMNI-94179, FI-3837: Cluster commit icon did not include a tooltip that explained the purpose of the icon. Text now displays when you hover the mouse over the menu.</p> <p>OMNI-91609, FI-3837: Inventory collection in Upgrade Manager took longer than 20 minutes to complete. Performance of this task is significantly improved.</p> <p>OMNI-101440: After relaunching, the Upgrade Manager shows cluster state as "Ready for Upgrade". Checks added to identify if components in all hosts in a cluster completed successfully and the correct result relayed to the Upgrade Manager.</p> <p>OMNI-104438: Observed data unavailability as Hive fencing failed to work as designed and node holds the Hive ownership during a upgrade operation. Disabled the resetting of the Ownership Fence flag <code>m_localOwnershipFenced</code> as part of clear role.</p> <p>OMNI-102294: <code>commit.one</code> task reports a verbose failure if <code>"/scratch/upgrade/upgrade.pl"</code> is missing. Added code to throw <code>FileNotFoundException</code> exception.</p> <p>OMNI-94182: Upload failure verbosity is needed when REST certificate is invalid. Added a more verbose failure message to identify the reason for upload failure.</p> <p>OMNI-90797: Firmware upgrade fails with the message "Failed to validate the computed artifact descriptors." Upgrade Manager now shows the error message and allows the user to proceed only if the <code>OmniStack</code> package is available.</p>

Category	Description
Virtual machines	<p>OMNI-89304, FI-3840: Using vMotion to move a powered-off virtual machine between hosts caused the virtual machine state to change to invalid. Rectified by using the correct NFS access procedure to return an error if the internal call to retrieve the attributes fails.</p> <p>OMNI-95508: A virtual appliance should not attempt to communicate over the management interface using the federation IP address. A connection is now considered preferred. Attempts to communicate are no longer made over the interface switch.</p> <p>OMNI-86060: svt-vm-clone needs clear setting for NSX. Rectified by clearing the externalId in the file when svt-vm-clone a virtual machine.</p>
Deployment	<p>OMNI-93032: Upgrade Manager fails to commit. Resolved by allowing to commit the clusters in a federation even if the faulty host is in another cluster.</p> <p>OMNI-93058: Upgrade should not proceed if there are any vMedia mount failures. Added PVC check and check before actual upgrade to do VMedia Mount.</p> <p>OMNI-94138: Manual reboot after rollback failure. Upgrade scripts are enhanced to detect any failures in 'finalize rollback' phase.</p> <p>OMNI-98567: MVA deployment fails during DigitalVault Initialization if MTU is less than 1500. Modified the code to also configure the user supplied MTU for docker bridge networks.</p> <p>OMNI-100914: HyperProxy findVMKernelNics caught exception: java.lang.NullPointerException. Added null check to fix the issue.</p> <p>OMNI-98488: SOAK - SVA fails deploy with DARE-enabled logical drive. Rectified with a factory reset of the node.</p> <p>OMNI-25390: Deployment manager UI crashed when navigating away from the Network Time Protocol (NTP) selection screen. Rectified by handling the exception.</p>
HPE InfoSight	<p>OMNI-97145: Very long log message entries can cause back-end systems to overflow and slow down. Removed logging of free inodes during verifyHiveConsistency check.</p> <p>OMNI-105896: Reading zeroes under certain circumstances is extremely slow as compared to CGIO. Remember ranges of zeroes so the same high level CMN is not locked repeatedly for every 8KB.</p> <p>OMNI-101337: Object Transport can segfault and core svtfbs when processing Ping reply messages. Ping request decoupled from the ping handler and attached with request map to handle request and response with respect to the sequence ID (similar to sync message), resulting in support for automatic concurrent ping request and responses.</p>

Category	Description
Backup	<p>OMNI-105032: OSC Backups Logical Space Consumption should not be reported as local backups. OSC backups are now excluded from local backups.</p> <p>OMNI-102097: Guest directory for VSS scripts is randomly not being created causing backup to fall back to crash consistent. Set the needsDisconnect flag to false. In case of a session timeout, getDefaultSession recreates a new session.</p> <p>OMNI-101035: While deleting a node from the federation, virtual machine Hives kept the node in their replicaset, remote backups remained "on" the node, and replicas remained "on" the node. Rectified by cleaning up snapmirror and snapreplica.</p> <p>OMNI-83342: File-Level-Restore failed with "The mount of the vmdk file failed". Rectified by retrying with force unmount.</p> <p>OMNI-74195: IP failover is not working intermittently when both Host and SVA was in hung state and its MAC for the storage IP is still responding for ARP sometimes. Rectified by adding watchdog script which writes to the specific single replica datastore with multiple KB size chunks. Each write thread is checked for timeout and decision is taken to stop or kill svdfs to make sure failover is initiated.</p> <p>OMNI-71942: File level restore does not allow restores from SCSI disks with two digit SCSI IDs. Rectified by changing the pattern of the SCSI regular expression to accept any number of digits.</p>
Security	<p>OMNI-104218: Python 3.x through 3.9.1 has a buffer overflow in PyCArg_repr in _ctypes/callproc.c, which may lead to remote code execution in certain Python applications that accept floating-point numbers as untrusted input. Latest patch has been adopted.</p> <p>OMNI-104217: Sudo before 1.9.5p2 has a Heap-based Buffer Overflow, allowing privilege escalation to root via "sudoedit -s" and a command-line argument that ends with a single backslash character. Updated Sudo package.</p> <p>OMNI-101262: Ubuntu 16.04 LTS / 18.04 LTS / 20.04 : curl vulnerability (USN-4466-1). Updated to the latest patch.</p>
vSphere Graphical User Interface	<p>OMNI-100143: Web client can target the wrong host in some cases. Rectified by splitting the string of virtual machine IDs into an array of strings and comparing each one instead of doing a substring search in the original string returned from HVAL.</p>

CVEs addressed in HPE OmniStack versions

The HPE OmniStack Virtual Controller is running Ubuntu 18.04 which is regularly patched with the latest security updates.

CVEs addressed in HPE OmniStack 4.1.1U1

HPE OmniStack 4.1.1U1 addresses the following CVEs:



CVE-2020-26939	CVE-2020-25632	CVE-2020-12762
CVE-2021-33909	CVE-2020-25647	CVE-2019-17023
CVE-2020-27337	CVE-2020-27749	CVE-2020-12399
CVE-2017-8779	CVE-2020-27779	CVE-2020-13790
CVE-2020-14372	CVE-2021-20225	CVE-2020-12762
CVE-2020-25632	CVE-2021-20233	CVE-2020-12049
CVE-2020-27749	CVE-2020-8625	CVE-2019-20795
CVE-2020-27779	CVE-2021-32029	CVE-2020-3810
CVE-2021-20225	CVE-2021-32028	CVE-2020-24394
CVE-2021-20233	CVE-2021-32027	CVE-2020-8622
CVE-2020-8231	CVE-2021-23358	CVE-2020-8623
CVE-2020-9308	CVE-2021-33910	CVE-2020-8624
CVE-2019-15795	CVE-2018-25009	CVE-2019-19956
CVE-2019-15796	CVE-2018-25012	CVE-2020-7595
CVE-2020-14303	CVE-2018-25010	CVE-2020-10531
CVE-2020-14556	CVE-2018-25011	CVE-2019-19906
CVE-2020-14577	CVE-2018-25013	CVE-2016-9840
CVE-2020-14578	CVE-2018-25014	CVE-2016-9841
CVE-2020-14579	CVE-2020-36328	CVE-2016-9842
CVE-2020-14581	CVE-2020-36329	CVE-2016-9843
CVE-2020-14583	CVE-2020-36330	CVE-2017-12133
CVE-2020-14593	CVE-2020-36331	CVE-2017-18269
CVE-2020-14621	CVE-2020-36332	CVE-2018-11236
CVE-2019-18348	CVE-2017-8872	CVE-2018-11237
CVE-2020-8492	CVE-2019-20388	CVE-2018-19591
CVE-2020-2754	CVE-2021-3516	CVE-2018-6485
CVE-2020-2755	CVE-2021-3517	CVE-2019-19126
CVE-2020-2756	CVE-2021-3518	CVE-2019-9169
CVE-2020-2757	CVE-2021-3537	CVE-2020-10029
CVE-2020-2767	CVE-2020-27153	CVE-2020-1751
CVE-2020-2773	CVE-2020-12351	CVE-2020-1752
CVE-2020-2778	CVE-2021-3156	CVE-2019-17514
CVE-2020-2781	CVE-2021-3177	CVE-2019-20907
CVE-2020-2800	CVE-2020-8169	CVE-2019-9674
CVE-2020-2803	CVE-2020-8177	CVE-2020-14422

CVE-2020-2805	CVE-2018-8740	CVE-2020-10713
CVE-2020-2816	CVE-2019-19603	CVE-2020-14308
CVE-2020-2830	CVE-2019-19645	CVE-2020-14309
CVE-2020-10700	CVE-2020-11655	CVE-2020-14310
CVE-2020-10704	CVE-2020-13434	CVE-2020-14311
CVE-2021-23840	CVE-2020-13435	CVE-2020-15705
CVE-2021-23841	CVE-2020-13630	CVE-2020-15706
CVE-2021-27363	CVE-2020-13631	CVE-2020-15707
CVE-2020-14372	CVE-2020-13632	CVE-2020-12402



Supported configurations

This section provides information about supported software and firmware versions, environmental requirements, and network configuration constraints.

Supported platforms

This version of HPE OmniStack software supports deployments and upgrades for these platforms:

- HPE SimpliVity 325 Gen10
- HPE SimpliVity 325 Gen10 Plus V2
- HPE SimpliVity 380 Gen10
- HPE SimpliVity 380 Gen10 G
- HPE SimpliVity 380 Gen10 H

HPE SimpliVity 2600 Gen10 Family of Servers:

- HPE SimpliVity 170r Gen10
- HPE SimpliVity 190r Gen10

This version of Upgrade Manager supports firmware upgrades on these platforms:

- HPE SimpliVity 325 Gen10
- HPE SimpliVity 325 Gen10 Plus V2
- HPE SimpliVity 380 Gen10
- HPE SimpliVity 380 Gen10 G
- HPE SimpliVity 380 Gen10 H

HPE SimpliVity 2600 Gen10 Family of Servers

Software revisions

For details on supported software, see the HPE SimpliVity OmniStack Interoperability Guide for your platform at: <http://www.hpe.com/docs/simplivity-interop>.

Note:

- With the exception of VMware vCenter Server and VMware vSphere Client revisions specified in the Hewlett Packard Enterprise Interoperability Guides, obtain and install HPE OmniStack software and upgrades from Hewlett Packard Enterprise only.
 - Do not apply any upgrades or patches to installed software unless you are advised to do so by Hewlett Packard Enterprise or by your support provider.
 - Do not allow Automatic VMware Updates to update the HPE OmniStack software on hosts.
-

Factory Upgrade images are available for specific versions of ESXi. Contact Customer Support (<https://www.hpe.com/support/hpesc>) if you are unsure which version to use or if you do not have the correct media.

Custom ESXi bundles for this release are available at:

- HPE SimpliVity Custom ESXi 6.7 Offline Bundle:
[:https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX_7985b2a5a2d246cfb3e4d85510](https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX_7985b2a5a2d246cfb3e4d85510)
- HPE SimpliVity Custom ESXi 7.0U2a Offline Bundle:
https://support.hpe.com/hpesc/swd/public/detail?swItemId=MTX_a95f4269a4884e60ad43161c1f



- HPE SimpliVity Custom ESXi 7.0U2d Offline Bundle:
https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX_7fcf492e827e4feb8ac32a3aee
- HPE SimpliVity OmniStack Firmware Bundle:
https://support.hpe.com/hpesc/public/swd/detail?swItemId=MTX_5d5646aad1984c719c91aa70de

Firmware revisions

The HPE OmniStack software requires that each supported platform is running a specific firmware revision. To avoid compatibility issues, contact Customer Support (<https://www.hpe.com/support/hpesc>) before making any firmware changes.

The supported firmware for this release is available at:

https://support.hpe.com/hpesc/swd/public/detail?swItemId=MTX_a041f4231ffc4600b450189bf5

For additional details on supported software, see the *HPE SimpliVity OmniStack Interoperability Guide* for your platform at:

<http://www.hpe.com/docs/simplivity-interop>.



CAUTION: If your system, or any management software, has automatic system updates enabled, disable this feature to avoid installing unsupported firmware revisions.

Software upgrade paths

For details on supported software, see the *HPE SimpliVity OmniStack Interoperability Guide* for your platform at:

<http://www.hpe.com/docs/simplivity-interop>.

ESXi licenses

HPE OmniStack software ships preinstalled with custom versions of vSphere ESXi that you must not replace or upgrade except when advised by Hewlett Packard Enterprise (or your support provider).

You must purchase a VMware vSphere license to operate vSphere ESXi with HPE OmniStack software. HPE OmniStack software supports all types of vSphere ESXi licenses, however:

- Some of the VMware features referenced in the Hewlett Packard Enterprise software and documentation might not be available, depending on the type of ESXi license you decide to purchase.
- The HPE OmniStack VAAI NAS plug-in requires vSphere licenses that support the VAAI NAS API.

You can compare vSphere ESXi license features at: <http://www.vmware.com/products/vsphere/compare>

HPE OmniStack environmental requirements

It is not necessary to defragment the HPE OmniStack storage used by guest virtual machines. In certain circumstances, this can negatively affect HPE OmniStack efficiency, increasing the amount of physical storage required by the virtual machine.

You might obtain benefits by aligning partitions as described in the Performance Best Practices for VMware vSphere at <http://www.vmware.com>.

The following requirements apply to networks used by a federation:

- IPv4 Protocol HPE OmniStack requires an IPv4 network
Your network can use both modes (both IPv4 and IPv6). However, if this is the case, specify both IPv4 and IPv6 addresses for any HPE OmniStack host that communicates with the federation across a network.
- NIC Teaming and Load Balancing
- HPE OmniStack uses Port ID for NIC teaming as the default setting. If your network uses LACP, 802.3ad, or EtherChannel, configure Load Balancing (in the vSwitch properties) as: Route based on IP hash. Use Port ID for all other cases.



- Storage Capacity Input Values and Reporting

All size input fields and display values are based on IEEE 1541-2002 standards of binary multiples.

To remain consistent with VMware's reported values, the SI decimal prefixes are used to represent IEC binary prefixes in all cases. For example 1,048,576 bytes is reported as 1.00 MB, not as 1.00 MiB. For more information see <http://www.wikipedia.org/wiki/Mebibyte>.



General restrictions

The following general restriction issues apply to this release.

HPE OmniStack CLI account credentials (svtcli)

As of HPE OmniStack version 3.7.4, the svtsupport account has been removed from the system. This means that access to the HPE OmniStack system is the sole responsibility of the customer, either through the identity source (vCenter Server) or through the svtcli account.



CAUTION: If the identity source is lost and the svtcli password is not known, system access can be lost making recovery very difficult. In extreme cases, this can mean data loss due to an inability to access it. Hewlett Packard Enterprise has no ability to recover the svtcli password.

Please see this [knowledge base article](#) for steps on how to recreate or change your svtcli password if required.

HPE SimpliVity automatic resource balancing

HPE SimpliVity automatically balances storage space across hosts in a cluster to ensure that hosts do not run out of space. Automatic balancing efficiently mitigates storage imbalances by moving virtual machine data that is less than 500GB. Virtual machine data that is larger than 500GB is not moved as part of the automatic balancing process because this virtual machine data typically represents core applications and long duration migrations.

Virtual machine data that is 500GB and larger can be moved with assistance from Customer Support (<https://www.hpe.com/support/hpesc>).

HYP-10792: Cannot use Java 9 with Deployment Manager and Upgrade Manager

Using a version of Java equivalent to OpenJDK 9 on the systems where you are using Deployment Manager or Upgrade Manager is not supported.

Using this version of Java can cause failures in deployments and upgrades.

Resolution

Use a version of Java equivalent to OpenJDK 8.

OMNI-17288: Restarting HPE OmniStack host in single host deployment results in VMware error

In deployments with a single HPE OmniStack host, restarting the host results in the vCenter Server error message Create NAS Datastore: An error occurred during host configuration. Unable to get console path for volume <DATACENTER NAME>.

Resolution

No resolution is required. This error message does not impact operations and can be ignored.



OMNI-27337: HPE SimpliVity filesystem log reports a FATAL error

If your system logs a FATAL error before experiencing an IP failover, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-47705: In a planned power down, HPE OmniStack might have only one up-to-date copy of the HA replicas

When performing a first-in first-out (FIFO) order of shutdown and bringing up svdfs instances specifically through vCenter, you might only see one up-to-date copy of the HA replicas.

Resolution

When shutting down and bringing up svdfs instances, specifically through vCenter, follow a last-in first-out (LIFO) order to ensure that this issue does not occur.

OMNI-49889: Virtual Controller doesn't start automatically after power cycle

In rare situations the Virtual Controller may not automatically start after a power cycle.

This issue occurs because CPU reservations are not being set to 100%. Manually setting the CPU reservation to 100% resolves the issue.

Resolution

Manually power on the Virtual Controller through vSphere.

OMNI-62727: Horizon View Instant Clone Parent VMs report an alarm of SimpliVity VM Data Access Not Optimized in vSphere

When provisioning an Instant Clone pool, vSphere triggers the warning alarm SimpliVity VM Data Access Not Optimized for the Parent Virtual Machines.

Resolution

This warning alarm can be ignored.

OMNI-71695: Data-defrag and metadata-defrag alarms persist after the event is resolved

OmniStack software version 3.7.9 introduced new alarms for stress on the data-defrag and metadata-defrag processes, and the alarms may persist unnecessarily. When the warning or error versions of these alarms appear, they are valid, but if the system regains enough free stripes later, the alarms are no longer valid but do not automatically clear.

Resolution

From the vSphere GUI, go to **Hosts and Clusters** and select the cluster with the alarm.

Go to **Monitor** > **HPE SimpliVity Capacity**.

Under TOTAL CLUSTER PHYSICAL CAPACITY, divide the number in the USED column by the number in the TOTAL PHYSICAL CAPACITY column, and then multiply by 100 to get a percentage of used space.

- If that percentage is over 55, a data-defrag alarm is still valid.



- If that percentage is over 25, a metadata-defrag alarm is still valid.
- Otherwise, the alarm is no longer valid and you can manually clear the alarm(s) in the GUI.

OMNI-96597: Object status in the HPE SimpliVity federation inventory is not updated

The status of objects in the HPE SimpliVity federation inventory (such as external store registration, cluster policy status, etc.), does not update when the status of the object changes.

Resolution

To work-around this issue perform the following tasks:

- 1 Stop the aggregator container on the Managed Virtual Appliance.

```
#sudo systemctl stop svt-aggregator-container
```

- 2 Wait approximately 3 minutes.
- 3 Start the aggregator container:

```
#sudo systemctl start svt-aggregator-container
```



Arbiter known issues

The following Arbiter issues apply to this release.

OMNI-81076: Alarm not raised in cluster with two HPE OmniStack hosts and no Arbiter

In earlier releases, the following alarms were not raised and/or cleared properly:

- com.simplivity.event.arbiter.required
- com.simplivity.event.arbiter.optional
- com.simplivity.event.arbiter.lost
- com.simplivity.event.arbiter.connected

Resolution

The alarms have been deprecated and replaced as follows:

Deprecated alarm	New alarm
com.simplivity.event.arbiter.required	com.simplivity.event.arbiter.config.required
com.simplivity.event.arbiter.optional	com.simplivity.event.arbiter.config.ok
com.simplivity.event.arbiter.lost	com.simplivity.event.arbiter.com.lost
com.simplivity.event.arbiter.connected	com.simplivity.event.arbiter.com.ok

For more information about the events, refer to the *HPE OmniStack Events Reference Guide*.



Backup policy known issues

The following backup policy issues apply to this release.

OMNI-22580: Changing all policy rules to different type of application consistent backup fails

If a backup policy has multiple rules that specify application consistent backups, and you attempt to edit all the rules so that they specify application aware backups with Microsoft VSS, then the edit operation fails. (Similarly, if a backup policy has multiple rules that specify application aware backups with Microsoft VSS, and you want to edit all the rules so that they specify application consistent backups, then the edit operation will fail.)

Resolution

Delete the existing rules and create new rules. Alternatively, update all the rules to specify crash consistent backups, and save the policy. Then edit the policies and specify the backups as application consistent or application aware with Microsoft VSS.

OMNI-87346: Cannot change policy rule destination from external store to local backup

When you define a policy, you can specify that a backup goes to an external store for a given rule. You cannot subsequently edit the rule to create a local backup. If you try to do so, the rule remains unchanged.

Resolution

Delete the existing rule that specifies backups go to an external store, and then create a new rule that specifies backups are stored as a local backup

OMNI-106884: Policy based backups are generated for vCLS VMs

Pre-existing vCLS VMs residing on HPE SimpliVity datastores that were treated as HPE SimpliVity guest VMs before the upgrade to 4.1.1U1 continue to be treated the same way which results in policy based backups for these vCLS VMs.

Resolution

To avoid vCLS VMs from getting backed up with policy based backups, follow these steps:

- 1** Migrate the vCLS VMs from the HPE SimpliVity datastore to a VMFS datastore.
- 2** Migrate the same vCLS VMs back to the HPE SimpliVity datastore.

For more information, see the Support Alerts - Customer Advisory note *HPE SimpliVity Gen10 Systems - Hosts Running VMware vCenter Server 7.0 Update 1 (or Later) May Experience Unpredictable Behavior* in the HPE Support Center.



Backup known issues

The following backup operation issues apply to this release.

OMNI-9981: Unable to delete backups using the HPE SimpliVity Plug-in for vSphere Client

Users are unable to delete backups though the HPE SimpliVity Plug-in for vSphere Client and instead receive the following error: Not authorized to perform requested action or view requested information, or an object is inaccessible.

Resolution

Run **svt-emergency-hms-sync** before trying to delete backups using the HPE SimpliVity Plug-in for vSphere Client.

OMNI-11369, HIM-12170: Migrating virtual machines spanning multiple datastores creates scattered virtual machines that cause HPE OmniStack hosts to run out of storage

Migrating large numbers of virtual machines spanning multiple datastores can create scattered virtual machines that can quickly result in an out-of-storage condition on the HPE OmniStack host. The HPE OmniStack host provides warnings when it becomes 80 and 90% full, but migrating large numbers of virtual machines that span multiple datastores can quickly fill the remaining storage.

Resolution

Avoid creating scattered virtual machines (virtual machines that span datastores). Follow Hewlett Packard Enterprise best practices and recommendations for migrating virtual machines onto HPE OmniStack hosts to ensure that adequate storage remains available.

OMNI-11784, HIM-15086, FRB-5275: Failed backup associated with a removed HPE OmniStack host is not deleted

When a failed backup is associated with an HPE OmniStack host, and you remove the host, the host might not delete the backup.

Resolution

For assistance deleting the host, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-13064, FRB-3660: Data access is not optimized error may not require follow-on action

If the path to access data goes through more than one HPE OmniStack host, then the HPE OmniStack software may generate the Data access is not optimized error. This message accurately indicates that the path of accessing data is traveling through more than one host. However, it does not accurately indicate whether or not the HPE OmniStack host can self-correct this situation. Self-correction is undertaken, if possible, after this message is issued. If self-correction is successful, a second corresponding Data access is optimized message is issued.



Note: A user may intentionally create the situation that causes a reduction in performance in order to alleviate other resource limitations such as memory or CPU utilization in the HPE OmniStack host. This issue does not limit access, it only changes its performance.

Resolution

Investigate all Data access is not optimized messages not followed by the corresponding Data access is optimized message need to be investigated and rectify them by either:

- vMotion the virtual machine to one of the two hosts where the storage resides (recommended)
- Move the storage to where the virtual machine is located. This method requires Customer Support (<https://www.hpe.com/support/hpesc>) involvement, takes time, and impacts I/O performance.

OMNI-14038, FRB-420: Restoration of backup for deleted virtual machine fails

An attempt to restore a new virtual machine from a backup of a deleted virtual machine fails with the error: Unable to determine virtual machine owner

Resolution

Attempt to restore the virtual machine a second time. Contact Customer Support (<https://www.hpe.com/support/hpesc>) if the operation fails again.

OMNI-14252, HIM-651: HPE OmniStack backup, move, or restore operations fail with Scattered VM or Operation Cannot Complete Using Partial VM Backup error

VDI-linked clones with a local delta disk that points back to an external base .vmdk file fail with the log message Scattered VM.

Note: HPE OmniStack backups are not supported for Horizon linked clones or Citrix desktops provisioned via MCS.

Non-linked clone backups of virtual machines with whole .vmdk files located in other datastores or directories generate an event that states: VM <VM_NAME> backup taken of Partial VM. Backups may not restore properly.

Attempting to restore one of these backups as a new virtual machine results in the following message: Recovering partial backup <BACKUP_NAME> to <NEW_VM_NAME> in <DATACENTER_NAME>. VM recovered using partial backup may not operate as expected. See product documentation about partial backups.

Attempting an HPE OmniStack move or Restore-In-Place fails with the following message: Operation cannot complete using Partial VM Backup.

Resolution

To prevent automatic backups, apply a no-rule (blank) policy to intentionally scattered virtual machines.

OMNI-18866: Intermittent VSS backup snapshot

Volume Shadow Copy Service (VSS) backups require HPE OmniStack software to interact with the guest virtual machine by means of the VMware API. Occasionally, a VSS backup fails due to failures in the VMware API calls. This problem may generate the following alarm: 'SimpliVity VM Backup Snapshot Failure

Resolution

Contact Customer Support (<https://www.hpe.com/support/hpesc>).



OMNI-22080: HPE OmniStack move task stalled at 95% for virtual machine

When you issue a move task for a virtual machine, in rare cases, the VMware vSphere Client might show the operation is stuck at 95% complete.

Resolution

When an HPE OmniStack move is 95% complete, you can power on and use the virtual machine. If the snap.migratehivecomponents tasks are still active, some of the backups for the original virtual machine may not show up in the backup list. Look at the active tasks for the move, and monitor them to see if they complete eventually. If they do complete, fix the stuck vCenter Server task using the vCenter Server Managed Object Browser.

OMNI-34149: HPE OmniStack software fails to create backup and displays “Error: [142] Invalid or unexpected destination specified”

This happens when the cluster containing the virtual machine does not have a direct network connection to the destination cluster with its backup (see "HPE SimpliVity federations" in the *HPE OmniStack for vSphere Administration Guide* for more information.) This might be associated with intermittent network connectivity or your network topology, for example ROBO or hub and spoke configurations.

Resolution

If you believe your network connectivity is fully restored, and the network configuration should allow backups between the source and destination clusters, but you see the “Error: [142] Invalid or unexpected destination specified” message, wait one hour and try to create the backup. HPE OmniStack software should be able to reset the condition and successfully create the backup. If you wait one hour and still cannot create the backup, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-44879: svt-backup-copy command fails to create backup

If you have multiple clusters spread across multiple datacenters, you are creating the first backup of a virtual machine, and one of the target hosts is down in the target cluster, then the **svt-backup-copy --dst-cluster** option fails to create the backup. The command returns the following message: ERROR [142]: Invalid or unexpected destination specified.

Resolution

Create the backup using **svt-backup-copy --dst-datacenter --dst-cluster**.

OMNI-45186: svt-vm-backup command fails to create backup

If you have multiple clusters spread across multiple datacenters, you are creating the first backup of a virtual machine, and one of the target hosts is down in the target cluster, then **svt-vm-backup --cluster** fails to create the backup. The command returns the following message: ERROR [142]:Invalid or unexpected destination specified.

Resolution

Create the backup using **svt-vm-backup --datacenter**.



OMNI-46878: Virtual machines moved to another cluster may result in backups in the original cluster appearing in place of canceled backups

If you move a virtual machine from one cluster to a different cluster using HPE OmniStack, and the virtual machine has backups with a status of Saving or Queued, then the status of those backups changes to Canceled. HPE OmniStack retains a backup corresponding to the Canceled backup, and it is available on the virtual machine's original cluster.

Resolution

The association between the backups and the newly located virtual machine remains. You can display the backups that did not move and remain on the original cluster using **svt-backup-show**.

OMNI-67681: Backup creation fails during a createSnapshot operation

You might sometimes see a backup failure if hive ownership changes during a createSnapshot operation.

Resolution

Manually retry the operation.

OMNI-73359: Backup restore operation does not work when you try to restore to hub cluster after a local restore in the spoke

Once you complete the restore of the local backup in the spoke, create a backup of that virtual machine, and use that backup to restore to the hub.

Resolution

Create the backup using **svt-vm-backup --datacenter**.

OMNI-76584: Backup restore operation hangs on HPE OmniStack host reboot

A backup restore operation hangs on HPE OmniStack host reboot.

Resolution

Re-issue the restore operation.

OMNI-76627: Invalid combination of remote datacenter and default local cluster while creating remote backup using svt-vm-backup command

When using **svt-vm-backup** you can either specify the datacenter and the cluster or just the cluster, but not the datacenter alone.

OMNI-89533: Backups appear to be associated with a deleted virtual machine

After you use OmniStack to move a virtual machine you see the backups that were associated with the virtual machine you moved now appear to be associated with a deleted virtual machine. The deleted virtual machine has the same name as the virtual machine you moved.



Resolution

Users with hypervisor administrator privileges can still access the backups and perform all backup operations, including restore, copy, delete, etc.



External store known issues

The following external store issues apply to this release.

OMNI-103095: Create new backup fails

If two operations (delete backup and create new backup) occur simultaneously on the same backup, it is possible that the create operation will fail.

Resolution

Retry the create operation.

OMNI-75099: File level restore failure with external store

File level restore is not supported for an external store backup.

OMNI-75175: Restoring an HPE StoreOnce backup to a remote cluster returns Unknown Backup Exception error

A backup restore operation only works between the external store and the original cluster of the backup.

Resolution

To restore the backup to a different cluster, you must copy the backup onto the original cluster, and then perform a restore to the remote cluster.

OMNI-76584, OMNI-80695: When turning off client access in external store, HPE OmniStack still says backup is successful

When you perform a manual backup to an HPE StoreOnce appliance, the vCenter Server task tracking only exists for taking the backup. It does not wait for the backup to reach the remote destination (remote cluster or external store).

Resolution

To confirm the backup exists on the remote destination you must manually view the state of the backup using either the HPE OmniStack CLI or HPE OmniStack GUI

OMNI-79192: Confusing retention time behavior with duplicate backup names

If you have a backup of the same name on both an HPE OmniStack cluster and an external store, and you set the retention time for virtual machine backups using **svt-backup-retention-set**, HPE OmniStack applies the expiration time to only one backup destination.



OMNI-80885: Policy-based backups are queued and generate error

All the policy based backups are queued and HPE OmniStack generates OSCLT_ERR_DEDUPE_ERROR.

Resolution

To work-around this issue perform the following tasks:

- 1 Delete the queued backup.

```
#svt-backup-delete --vm dtx_4095_10_IOPS_100_GB_ATF_0 --datastore ds1 --
backup dtx_ATF0_synthbkp2
```

- 2 Trigger a new backup.

```
#svt-vm-backup --vm dtx_4095_10_IOPS_100_GB_ATF_0 --datastore ds1 --external▶
store aga_small --name dtx_ATF0_synthbkp_new
```

- 3 Verify that backup is in progress.

```
# svt-backup-show --vm dtx_4095_10_IOPS_100_GB_ATF_0 --datastore ds1
```

- 4 Confirm backup is in protected state.

```
svt-backup-show --vm dtx_4095_10_IOPS_100_GB_ATF_0 --datastore ds1 --backup
dtx_ATF0_synthbkp_new
```

OMNI-82592: Backups fail to replicate to StoreOnce appliance on an HPE OmniStack host added after the appliance has been registered

If you associate a StoreOnce Catalyst Store with a cluster in an HPE OmniStack federation, and then add a new HPE OmniStack host to the cluster after the registration, you must update the Catalyst Store credentials on the new host.

Resolution

To update the credentials, run **svt-external-store-creds-update**. Credentials will get re-circulated to every HPE OmniStack host in the cluster, including the new host. You must repeat this process each time you add a new HPE OmniStack host to the cluster after Catalyst Store registration.

OMNI-83276: Unable to remove external store after cluster has been removed

When trying to remove an external store that has a cluster that is removed, HPE OmniStack will not remove the external store. An error message indicates the cluster does not exist.

Resolution

You must unregister the external store before you delete the cluster. Run **svt-external-store-unregister** to unregister the external store, then perform the operation to delete the cluster.

OMNI-98535: Backup copy from a remote external store never completes

Attempting a backup copy using either the GUI or the CLI between a cluster and an external store never completes. The backup copy stays at 0% indefinitely and never times out nor shows an error. This occurs if an external Cloud store is registered



incorrectly as an HPE StoreOnce Catalyst store. HPE OmniStack does not check to ensure that your selection was correct during the registration process.

Resolution

Ensure that the external store is registered properly as a (remote) HPE StoreOnce Catalyst Cloud Bank store and not as a (local) HPE StoreOnce Catalyst store. By default the HPE OmniStack `svt-external-storeregister` command will register the external store as an HPE StoreOnce Catalyst store if `--type 1` is not specified. See the *HPE OmniStack CLI Guide* for details.

OMNI-108099: Remote backup copied to an external store cannot be restored

You cannot restore a backup from an external store if it was copied using a remote backup.

Resolution

Do not copy a remote backup to the catalyst store as you might not be able to restore it back to the original local cluster. Always use the local backup when copying to the catalyst store. If you have copied any remote backups that you are unable to restore, contact Customer Support (<https://www.hpe.com/support/hpesc>).



File restore known issues

The following file restore issues apply to this release.

FRB-3849: Restore Files wizard fails with backups of virtual machines containing VMware snapshots

For HPE OmniStack backups that are not application consistent, you may encounter errors in the Restore Files wizard attempting to restore files for a backup of a virtual machine that contains a VMware snapshot. This situation occurs when the source virtual machine has one or more VMware snapshots listed in the VMware Snapshot Manager at a time when an HPE OmniStack backup is created for that virtual machine.

This situation occurs due to an error using the VMware vmware-mount tool on the delta disk containing the blocks written since the last VMware snapshot. The tool reports the disk as needing repair, but the tool to repair the disk does not repair the disk sufficiently for vmware-mount to be able to mount those disks.

Application consistent backups are not affected by this problem because the File Restore operation knows which VMware snapshot was created by Hewlett Packard Enterprise and reads the .vmdk disks associated with that snapshot instead of the delta disk.

Resolution

Ensure that all VMware snapshots created manually by users or created by third-party backup solutions have been removed from the virtual machine at the time HPE OmniStack backups are taken to prevent this issue in the future.

For backups with files that are required but that exhibit this issue, you can use a regular backup restore to create a new virtual machine and perform either of the following actions:

- Turn on the virtual machine and retrieve the required files from that online virtual machine.
- Add the virtual disks from the newly created virtual machine to another virtual machine from which you want to access the files, load the disks via Disk Manager (or another tool), and use File Explorer or another tool to find the required files from the virtual disk. Then, clean up the restored virtual machine after retrieving the required files.

OMNI-13425, FRB-4282: HPE OmniStack host fails to list partitions with \$ in the name

HPE OmniStack host fails to load partitions for virtual machines that contain the \$ special character in the name of a virtual machine disk.

Resolution

Do not use the \$ special character when naming a virtual machine disk.

OMNI-40972: Using file level restore to restore a remote backup fails with “Internal Error” message

You cannot use file level restore to directly restore specific files from a remote HPE SimpliVity backup. Use a local backup with the file level restore workflow.



Resolution

To restore specific files from a remote backup, use the HPE SimpliVity Copy Backup function (available from the right-click context menu of a backup). Copy the backup to the cluster where the target virtual machine resides. After you copy the backup of the virtual machine, you can use the file level restore workflow because the copy of the backup acts as a local backup.

OMNI-15438, FRB-4854: Some file types cause browsing errors

Some archive products create proprietary file types. These file types can cause errors when you're browsing files in the File Restore Wizard. This problem may be encountered if you are using any archive or offline storage product that uses reference or stub files as pointers to the offline storage location. This affects both the UI and CLI, and displays as Unknown error.



HPE OmniStack CLI known issues

The following HPE OmniStack CLI issues apply to this release.

AS-3589: CLI incorrectly interprets special characters in names

If you use names that contain special characters (\$, #, !), either escape each character or surround it with single quotes.

For example, if you specify two \$ symbols with the --name option when using **svt-datastore-create**, the resulting datastore name includes a random numerical string:

```
$ svtcli@omnicube-ip2-25:~$ svt-datastore-create --size 5TB --policy dc1Policy1
--name vt ds$$
$ svtcli@omnicube-ip2-25:~$ svt-datastore-show
+-----+-----+-----+-----+-----+
| vt ds3287 | datacenter1 | dc1Policy1 | 5.00TB | 2013-Feb-26 11:08 |
+-----+-----+-----+-----+-----+
```

This is because the CLI shell interprets the dollar symbol (\$) as a variable corresponding to the environment variable for the process identifier. The CLI inserts the PID value into the name, in place of the dollar symbol (\$).

Resolution

If you use two or more \$ symbols with the --name option, enclose the entire name string in single quotes, as follows:

```
$ svtcli@omnicube-ip2-25:~$ svt-datastore-create --size 5TB --policy dc1Policy1
--name 'vt ds$$'
```

HYP-8470: The --server option for the svt-session-start command is ignored

Specifying the --server option with the **svt-session-start** command has no impact on the command operation.

The output for this command displays server details without specifying the --server option.

Resolution

Do not use the --server option with this command.

OMNI-27775: A physical drive in Unconfigured(bad) state fails to display in HPE SimpliVity Plug-in for vSphere Client or in svt-hardware-show

When a drive goes into Unconfigured(bad) state, it is not displayed in the HPE SimpliVity Plug-in for vSphere Client or CLI (**svt-hardware-show**).

Resolution

Replace the physical drive. To determine which physical drive failed, look for an event in the Events section of the monitor tab in the HPE SimpliVity Plug-in for vSphere Client that indicates the slot of the physical drive that failed. For example:

```
Physical drive 2 health state=Failed was Healthy
```



OMNI-31309: Renamed virtual machine name not immediately reflected in CLI

There may be a lag of minutes or hours between your renaming a virtual machine and your seeing that updated name reflected in CLI listings and output. The GUI is not affected, it reflects updated names immediately.

OMNI-31758: svt-iwo-show, svt-iwo-enable, svt-iwo-disable do not work for clusters on all vCenter Servers

Resolution

Run the **svt-iwo-show**, **svt-iwo-enable**, and **svt-iwo-disable** commands from an OmniStack Virtual Controller on the vCenter Server that contains the cluster that you want to view or configure. When used in a linked mode-environment, the **svt-iwo-show**, **svt-iwo-enable**, and **svt-iwo-disable** commands do not work for clusters on all vCenter Servers when the commands are issued with the `--cluster` and `--datacenter` options. The commands when issued with these options should work across the entire federation, and not just from within the clusters in the datacenters hosted on the same vCenter Server as the desired cluster.

OMNI-57662: The svt-session-start command results in Error:NullPointerException:null

You might encounter this issue if DNS is not configured properly, or if there are other host lookup issues in your environment that prevent the Virtual Controller from performing successful TLS client certificate validation.

Resolution

Temporarily disable TLS client certificate validation while you fix host lookup issues. For more information about turning off TLS certificate validation, see the section on Managing Certificates using PowerShell on <https://developer.hpe.com/platform/hpe-simplivity/home>.

OMNI-75982: svt-keys-zeroize command not supported

The `svt-keys-zeroize` command is installed on the Virtual Controller. It is not supported and should not be used.

Resolution

Do not use this command.



HPE SimpliVity Plug-in known issues

The following HPE SimpliVity Plug-in issues apply to this release.

OMNI-13826, HIM-721: Task progress bar inaccurate and appears to hang

HPE SimpliVity tasks are reported in the vSphere Client Recent Tasks panel, located at the bottom of the vSphere window.

For some tasks, such as sending a backup to a remote datacenter, the progress bar is not updated and it might appear that the task is inactive.

Resolution

Wait for the task to complete. It is unusual for a task to hang indefinitely. Typically if a task fails, you see an error message in the tasks list. If successful, the progress bar updates at the end of the task. Backup progress is visible on the backup dialogs in the HPE SimpliVity Plug-in for vSphere Client, or you can use the `svt-backup-show` CLI command.

Note: Some tasks that involve large amounts of data can take several hours to complete.

OMNI-14408, FRB-654: When using linked clones, read performance statistics do not display

If you use the HPE SimpliVity Plug-in for vSphere Client to look at I/O statistics for a linked clone virtual machine, the statistics do not include read operations being satisfied by the Horizon View replica image or Citrix base disk.

Resolution

Use the VMware I/O statistics to analyze the linked clone virtual machine statistics.

OMNI-27775: A physical drive in Unconfigured(bad) state fails to display in HPE SimpliVity Plug-in for vSphere Client or in `svt-hardware-show`

When a drive goes into Unconfigured(bad) state, it is not displayed in the HPE SimpliVity Plug-in for vSphere Client or CLI (`svt-hardware-show`).

Resolution

Replace the physical drive. To determine which physical drive failed, look for an event in the Events section of the monitor tab in the HPE SimpliVity Plug-in for vSphere Client that indicates the slot of the physical drive that failed. For example: Physical drive 2 health state=Failed was Healthy

OMNI-42546: Cluster or virtual machine performance charts for Throughput, IOPS, and Latency do not show data points from the current time to any time in the past

When you view the throughput, IOPS, or latency details, you see missing data points from the current time to any time in the past. For example, if you select the minutes option to view minute by minute details, the beginning of the charts appear empty.



Resolution

The clock for one or both of the following items is not synchronized with the NTP server:

- Computer you use to access vCenter Server (your client computer)
- Virtual Controller (virtual machine used by the HPE OmniStack host)

One or both of the clocks could be off by minutes or hours. Contact your administrator to ensure the NTP network is set up properly. If you need to synchronize the clock for your computer, contact your administrator. If you need to synchronize the clock for the Virtual Controller, contact Hewlett Packard Enterprise Support at <http://www.hpe.com/assistance>.

OMNI-58973: See unexpected message or dialog box remains open when setting the policy in HPE SimpliVity Plug-in for vSphere Client (HTML5) with Internet Explorer

If you use Internet Explorer 11 or later with the debug console open and you use HPE SimpliVity Plug-in for vSphere Client (HTML5) to set a policy for virtual machines or templates, you may see an error message about "property keys." If you select more than one virtual machine or template, the dialog box can remain open.

Resolution

If you see the "property keys" message, you can disregard it and close it. If you cannot close the dialog box, refresh the browser.

OMNI-59384: See unexpected message or cannot enter field information when creating a policy in HPE SimpliVity Plug-in for vSphere Client (HTML5) with Internet Explorer

If you use Internet Explorer 11 or later and you use HPE SimpliVity Plug-in for vSphere Client (HTML5) to create a policy, you may see an error message about "property keys" after you click OK or Cancel. If you try to enter text in a field, you cannot enter anything.

Resolution

If you see the "property keys" message, you can disregard it and close it. If you cannot enter text in fields, close the dialog box and refresh the browser.

OMNI-70096: Management, Storage, and Federation network show the same IP address in HPE SimpliVity Plug-in for vSphere after restarting the VMware LifeCycle Manager service

If you install HPE SimpliVity Plug-in for vSphere on a vCenter Server and then restart the VMware LifeCycle Manager service to activate the Plug-in, you invalidate the network data for the Virtual Controller. For example, if you install a new version of HPE SimpliVity Plug-in for vSphere Client, restart VMware LifeCycle Manager service, and then look at the IP addresses for a Virtual Controller in the Client views, you see that all the IP addresses look the same. The IP addresses should all be different for each HPE SimpliVity network used by the Virtual Controller (Management, Storage, and Federation networks).

Resolution

Update vCenter Server to version 6.7 Update 3b.

To reset the network information for the Virtual Controller, you need to restart the open-vm-tools service. Log in to the HPE OmniStack host with the Virtual Controller used to connect to the federation and run this command: `sudo systemctl restart open-vm-tools.service`

Do not restart the VMware LifeCycle Manager service if you add or remove HPE SimpliVity Plug-in for vSphere Client. Instead, restart the VMware vsphere-ui service. For more information on logging into HPE OmniStack hosts, see the Command Reference Guide. For more information on installing or removing the plug-in, see the Deployment Guide.



As an alternative, you can open a console window to the Virtual Controller within vCenter Server. In some cases, you might need to refresh the Flash client session in vCenter Server.

OMNI-89190: If the Management Virtual Appliance fails, the HPE SimpliVity Plug-in for vSphere Client does not display views and actions

If the Management Virtual Appliance fails for any reason, HPE SimpliVity views and actions in the HPE SimpliVity Plug-in become unavailable. The HPE SimpliVity Plug-in does not fail over to another Virtual Controller automatically.

When the Management Virtual Appliance becomes available again, access to HPE SimpliVity views and actions is restored.

Resolution

For assistance when a Management Virtual Appliance failure affects the HPE SimpliVity Plug-in, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-92428: Unexpected results when generating backup reports

If the HPE SimpliVity Plug-in and the Management Virtual Appliance are running different HPE OmniStack versions, then you might experience unexpected results when generating backup reports. You encounter a REST error when you attempt to generate the report if the HPE SimpliVity Plug-in is running a version of HPE OmniStack that supports the generate backup report feature, but the Management Virtual Appliance is running a version that does not support it. For example, if the HPE SimpliVity Plug-in is running 4.0.1 or 4.1.0 but the Management Virtual Appliance is running 4.0.0 or lower.

If the HPE SimpliVity Plug-in is running HPE OmniStack 4.1.0 but the Management Virtual Appliance is running HPE OmniStack 4.0.1, the backup report includes a maximum of 20,000 backups. The constraint is listed in the report but is not mentioned in the dialog box when you generate the report.

Resolution

Ensure the HPE SimpliVity Plug-in and the Management Virtual Appliance are at the same version.

OMNI-92906: Warning messages are not cleared while using the dialogs available through the External Storage view

If you encounter a warning message in a dialog while performing any of the actions available through the External Storage view, you might see the same warning message while performing subsequent actions from the same view. The warning message might or might not be valid because the original error message does not get cleared correctly.

Resolution

Refresh the browser or page to clear the warning message. If it is not valid for the current dialog, the message is cleared and you can retry the action. If the message does not clear, then the message is valid for the current action.

OMNI-94958: HPE InfoSight registration error

During the HPE InfoSight registration process, you might receive the following message after you click the Register button:

"An error occurred registering with HPE infosight. Verify the Claim Token and try again"

Resolution

To verify that the registration succeeded and to clear the message, do one of the following:



- Click Register a second time.
- Navigate to a different tab then return to the HPE InfoSight view.

OMNI-107763: Generating backup reports or support capture using Chrome browser version 92 or higher fails to download

If you generate backup reports or support capture using Chrome browser at version 92 (or higher), reports do not download. This is because the Chrome browser blocks files that are downloaded from non-HTTP sites starting with version 92.

Resolution

Follow these steps to resolve this issue:

- 1** From the vCenter, click **Not secure** from the Chrome browser tab. A pop-up appears.
- 2** Click the **Site settings** tab. A new window opens.
- 3** Click the **Insecure content** tab. Change the value from Block(default) to Allow, and then close the window.
- 4** Relaunch the browser. You can now generate and download backup reports or support capture.



Hardware known issues

The following hardware issues apply to this release.

OMNI-32697: Enabling/Disabling logical drive cache does not generate an alarm

The HPE SimpliVity 380 Gen10 Smart Controller does not generate an event when logical drive cache is enabled or disabled, and no alarm is displayed through the vSphere Client.

Resolution

Use the Integrated Lights-Out (iLO) Management for HPE ProLiant tools to monitor logical drive cache events.

OMNI-33299: Percentage rebuild for HPE SimpliVity 380 Gen10 physical drives displays as NA

The percentage rebuild for HPE SimpliVity 380 Gen10 servers does not display the actual percentage in the vSphere Client nor through the `svt-hardware-show` CLI command. NA is displayed in both instances.

Resolution

No resolution required, the drive rebuild completes normally.

OMNI-34393: SSD Array rebuilding alarms do not clear properly resulting in the display of alarms with multiple levels of severity

When a RAID6 SSD Array is rebuilding one drive, the SSD Array rebuilding one or more drives warning alarm triggers. If another drive is then pulled, reinserted, and starts rebuilding, a critical Maximum number of drives rebuilding alarm triggers and the Rebuilding one or more drives warning alarm should clear. However, that alarm is not properly cleared resulting in both the warning and the critical alarms present and causing possible confusion. RAID5 is not affected by this issue.

Resolution

No workaround is required, the alarms both clear when the drives complete the rebuilding process.

OMNI-62914: Host TPM Attestation alarm appears

If your HPE OmniStack hosts are running ESXi 6.7 and TPM 2.0 with secure boot disabled, you will see the Host TPM Attestation alarm. This is expected VMware behavior when secure boot is disabled. For more information about secure boot, ESXi, and TPM 2.0, see these VMware articles:

- Cannot enable secure boot on ESXi 6.5 or 6.7 host that was upgraded (2147606)
- vSphere 6.7 – ESXi and TPM 2.0

Resolution

You can ignore this alarm. Do not enable secure boot because it is not supported on HPE OmniStack hosts



OMNI-65327: iLO Security dashboard displays a security status of Risk because secure boot is disabled

iLO 5 v1.40 provides the security status of several parameters including secure boot. Secure boot is not supported on HPE OmniStack hosts and is disabled by default.

Resolution

The warning can be ignored. Select Ignore in the Security Dashboard for the secure boot parameter to change the security status from Risk to Ignored. Do not enable secure boot because it is not supported on HPE OmniStack hosts.

OMNI-70347: System fails to start after a drive removal

If a drive is removed from a system while the system is shutdown, the system may fail to startup.

Resolution

Restore the drive configuration to the previous state by reinserting the original drive or inserting a new drive and then rebooting the system.

OMNI-70584, OMNI-78178: RAID Battery backup at adapter <adapter> health state has changed from Unknown to Degraded alarm, and/or Adapter BBU state is degraded log message appear after reboot

If a system is rebooted while the the internal backup battery is in a recharging state, various battery health state events and log messages may appear, based on the platform model. These events and messages may include:

- Adapter BBU state is degraded (in the SVTFS log)
- RAID Battery backup at adapter <adapter> health state has changed from Degraded to Healthy

Resolution

Use iLO to verify that this is a transient issue. If iLO shows healthy, the alarm can be safely acknowledged and cleared. These messages are only occurring because the battery was still recharging when the host booted, but finished very shortly thereafter.

OMNI-107827: svt-hardware-show command displays HDD details having latest HPD4 firmware but with incorrect manufacturer and model name

HPE SimpliVity 380 Gen 10 H model running HPD4 HDD firmware shows incorrect manufacturer and model name as part of the svt-hardware-show command output.

Resolution

Use the Integrated Lights-Out (iLO) Management for HPE ProLiant tools to validate the manufacturer and model name. Additionally, for HDDs running HPD4 firmware, you can use the following command to read the correct model and manufacturer name:

```
ssacli ctrl slot=controller_slot pd device_slot show detail
```



OMNI-108113: Recovery steps for recovering OCX drive are causing svfts to crash with svfts core dump

When a physical SSD fails and is subsequently replaced and rebuilt, RAID0 volume still shows critical health status and does not recover, and svfts crashes with a core dump.

Resolution

- 1 Pull the failed disk and replace it with a new disk.
- 2 Wait for the drive status to be Rebuilding:

```
sudo ssacli controller slot=65535 pd all show
```

- 3 When the drive reaches the Rebuilding phase, run the dsv-repair-ocx command:

```
sudo dsv-repair-ocx --repair
```

- 4 Reboot the HPE OmniStack Virtual Controller (OVC).

PLAT-103: Inserting unsupported drive does not generate an alarm

If a drive fails and you insert an unsupported drive, the HPE SimpliVity host does not generate an HPE SimpliVity alarm in vSphere Client.

You might also notice related alarm events such as:

- HPE SimpliVity Physical SSD (or HDD) drive rebuilding
- The physical SSD (or HDD) drive at slot:1 is rebuilding
- The physical SSD(or HDD) drive at slot:1 is finished rebuilding

However, these events are incorrectly reported because a rebuild cannot begin on an unsupported drive.

Resolution

Replace the failed drive as soon as possible using a compatible replacement drive. The drive rebuild should begin immediately.



Deployment known issues

AMP-4029: Virtual Controller does not power on during deployment

When deploying HPE OmniStack hosts in a datacenter or cluster with no deployed HPE OmniStack hosts, the Virtual Controller does not power on and the deployment fails. Deployment Manager displays the following error in the Deployment Status window: ERROR: step 24 of 33 – A task error occurred powering on Virtual Controller

Resolution

Restart the VMware vCenter Server Workflow Manager service. See VMware KB article 1003895 for more information.

OMNI-13106, FRB-1625: Virtual Controller unable to reach expected ports on Storage network after deployment

Following deployment, an alarm may appear on one or more Virtual Controllers, indicating a connectivity failure on the Storage network.

Resolution

The issue should resolve itself within one minute and the alarm no longer appears. If it does not, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-22832: When testing settings for deployment, invalid content message displays

At the Test Host Settings screen in Deployment Manager, you see the test screen go blank and this error message displays: The deployment configuration XML file contains invalid content. Contact SimpliVity Customer Support.

Resolution

Click Back and check the MTU values at the Configure Management Network Settings, Configure Federation Network Settings, and Configure Storage Network Settings screens. You must enter a value between 1000-1500. In addition, the MTU setting must match the MTU settings used for the corresponding network of the previously deployed hosts. For example, if you previously deployed an HPE OmniStack host with an MTU value of 1500 for Management network. The next host you deploy to that network must use an MTU value of 1500.

If you continue to see the error message, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-70939: Can see unused VLANs show on HPE Aruba switches after the deployment process gets interrupted, cancelled, or fails

If you start deploying hosts with Deployment Manager using the HPE Aruba switch method and the process gets interrupted, cancelled, or fails, you may still see unused VLANs show up on the switch. For example, if you cancelled the deployment process halfway through and later used the "switch#<number> show vlan" command on one of the switches, you may see an unused VLAN assigned to the switch.

Resolution

Manually remove any unused VLANs before using the switches again.



OMNI-72557: Host VLAN ID, Virtual Controller VLAN ID, and IP addresses that populate in the Storage and Federation network settings screens in Deployment Manager allow user modification for HPE Aruba deployments

During deployment, the Storage network screen and the Federation network screen automatically populates fields. However, editing the Host VLAN ID, Virtual Controller VLAN ID, and IP address fields may cause the deployment to fail.

Resolution

Do not change the settings in the Host VLAN ID, Virtual Controller VLAN ID, and IP address fields for the Storage Network Settings and Federation Network Settings screens.

OMNI-94577: Deployment fails with "Step 7 of 42: ERR_DPLY_NO_VC_FOUND_TO_DEPLOY"

This error occurs when Deployment Manager cannot find the ova file and hypervisor image.

Resolution

Verify that the missing files are located in the user's Downloads folder. If not, copy the files from the deployment package to the Downloads folder and restart the deployment.

OMNI-107287: Deployment Manager allows both DARE (encryption enabled) and non-DARE (non-encrypted) to co-exist in same cluster

The HPE SimpliVity Deployment Manager allows Data At Rest Encryption (DARE) and non-encrypted systems to be deployed to the same cluster without providing a verification or warning message for this configuration.

Resolution

HPE SimpliVity recommends against mixing encrypted (DARE) and non-encrypted HPE OmniStack hosts in the same cluster. When using encryption (DARE), HPE SimpliVity recommends enabling it on all hosts that are intended to be deployed into a given cluster.

For more information, see the following Support Alert:

https://support.hpe.com/hpsc/public/docDisplay?docId=emr_na-a00118655en_us.

OMNI-107651: Parallel deployment of 10 GB and 10/25 GB NIC cards is not being allowed in Deployment Manager

Deploying multiple hosts at the same time for a given network with different link speed combinations is not supported.

Resolution

To deploy multiple HPE OmniStack hosts to a cluster at the same time, select NICs with the same link speed combination for each HPE OmniStack host, or deploy HPE OmniStack hosts one at a time.

OMNI-107677: Deployment fails with "Step 10 of 43: ERR_DPLY_TIMEOUT_BOOTING_HYPERVISOR"

One of the reasons the ESXi failed to boot is that the server boot order might have been altered.



Resolution

Log in to the server iLO console and adjust the boot order priority. Ensure that the boot order priority is VMware ESXi and then HPE Smart Array E208i-p.



Upgrade known issues

The following issues apply to this release.

OMNI-13329: Commit alarm appears after committing the upgrade in Upgrade Manager

After you run Upgrade Manager and successfully commit the upgrade for your hosts, the hypervisor shows this alarm: SimpliVity software commit needed.

Resolution

The alarm does not reflect the correct status. To clear it, right-click the alarm, and select **Acknowledge**, then select **Reset to green**. As long as you see the commit complete in Upgrade Manager successfully, you can disregard the alarm in the hypervisor.

OMNI-31740: FIPS mode is disabled after Arbiter upgrade

FIPS mode state changes from enabled to disabled after an Arbiter upgrade, and must be manually re-enabled. Verify that FIPS mode is disabled with the **svt-fipsmode-show.exe** command.

For example, enter:

```
c:\Program Files\SimpliVity\SimpliVity Arbiter\bin>svt-fipsmode-show.exe
```

```
FIPS mode is disabled.
```

Resolution

- 1 Re-enable FIPS mode by entering the following command:

```
c:\Program Files\SimpliVity\SimpliVity Arbiter\bin>svt-fipsmode-enable.exe
```

```
FIPS mode is now enabled
Restarting arbiter...
The SimpliVity Arbiter service is stopping...
The SimpliVity Arbiter service was stopped successfully.
The SimpliVity Arbiter service is starting...
The SimpliVity Arbiter service was started successfully.
```

- 2 Verify that FIPS mode is enabled:

```
c:\Program Files\SimpliVity\SimpliVity Arbiter\bin>svt-fipsmode-show.exe
```

```
FIPS mode is enabled.
```

OMNI-52417: Failed tasks display when upgrading ESXi on a single host cluster

When upgrading ESXi on a single host cluster, failed tasks may display in vSphere client with the name "Create NAS datastore" and a status indicating that the datastore already exists.



Resolution

You can ignore these failed tasks as an attempt to re-create all SimpliVity datastores is made on every host reboot of single host clusters.

OMNI-59457: After upgrading to HPE OmniStack 4.1.1U1, attempts to expand clusters deployed using an earlier version of the software might fail

After upgrading any supported HPE hardware platform to HPE OmniStack 4.1.1U1, attempts to expand clusters that were initially deployed using an earlier version of the software to more than eight HPE OmniStack hosts per cluster might fail.

Resolution

If your attempt to expand a cluster fails, contact Customer Support (<http://www.hpe.com/support/hpesc>) for assistance adding the additional hosts to the cluster.

OMNI-63388, OMNI-61328, OMNI-61198: svtfS becomes unresponsive after rollback

After rolling back an upgrade, svtfS becomes unresponsive and virtual machines fail to reach HA compliance. This is a result of a communication issue between the TIA2 firmware and the tiadriver.

Resolution

Stop svtfS, verify that the tiadriver is not loaded, and then restart svtfS. This causes the TIA2 firmware and the tiadriver to re-synchronize their communication. If the condition persists, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-73865: HPE firmware upgrade starts, but never completes

When upgrading HPE host firmware, one or more hosts may fail or take a long time to enter maintenance mode.

Resolution

Check the condition of the guest virtual machines, the data stores, the OmniStack Virtual Controller, and the Management Virtual Appliance. Then, do one of the following:

- Complete the upgrade by helping vCenter bring the hosts into maintenance mode. To do this, power off or manually migrate any virtual machines running on the hosts. Do not migrate or power off the OmniStack Virtual Controller.
- Abort the upgrade by manually cancelling the Enter maintenance mode task. This will stop the upgrade and leave the cluster in a mixed-version state. You should restart and complete the upgrade as soon as possible.

OMNI-77919: Upgrade Manager does not keep track of upgraded firmware versions

After upgrading a host's firmware, if you upgrade another component (for example, OmniStack Virtual Controller) or restart Upgrade Manager, the host's firmware upgrade status will display as "Ready for upgrade," even though you have already upgraded it.

Resolution

If you generated an optional firmware upgrade report when you finished the firmware upgrade, refer to it for information on the firmware versions you upgraded. If you did not generate the report, you will have to keep track of the versions you upgraded.



OMNI-83517: Upgrade Manager Pre-Upgrade Validation tests fail during firmware upgrade

When attempting to upgrade HPE host firmware on a cluster with partially upgraded hosts, the following error displays:

Summary: HPE SimpliVity Firmware Upgrade Available failed.

Details: Pre-upgrade validation test failed for unknown reasons. Verify the iLO information for the tests.

Resolution

Upgrade the firmware on one failed host at a time.

OMNI-83915: Sometimes upgrade messages use incorrect terminology

In some cases, messages in Upgrade Manager refer to Virtual Controllers when they should refer to HPE OmniStack hosts. In other cases, there are references to Hypervisor hosts that should be referencing HPE OmniStack hosts.

OMNI-88818: Federation fails to upgrade with Failed: Could not determine if the cluster is prepared for upgrade

When upgrading a federation with Upgrade Manager, the upgrade fails with the error:

```
Failed: Could not determine if the cluster is prepared for upgrade
```

.

Resolution

Close Upgrade Manager, delete all temporary files in the %temp% directory on the system running Upgrade Manager, and then restart Upgrade Manager.

OMNI-92714: Upgrade a single host cluster failed

When upgrading HPE OmniStack, VMware ESXi, and HPE host firmware on a single host cluster, the upgrade process may fail and automatically roll back to the previous version of HPE OmniStack. This occurs when the HPE host firmware upgrade takes longer than 30 minutes.

Resolution

Retry the upgrade by first upgrading HPE OmniStack and VMware ESXi together, and later upgrading the HPE host firmware.

OMNI-104163: During firmware upgrade using Upgrade Manager, Server Platform Services (SPS) and Innovation Engine (IE) do not upgrade to the latest versions

Failed upgrades from previous attempts are left in the iLO installation queue and might block subsequent updates.

Resolution

Delete the failed items in the iLO installation queue and retry the upgrade using Upgrade Manager.



OMNI-106308: In a given HPE OmniStack cluster, virtual machine migrations between hosts upgraded to and deployed with VMware ESXi 7.x fail at the 'Select Network' step

Furthermore, when these hosts are switched to enter maintenance mode, either as part of a VMware ESXi or HPE Firmware upgrade or manually, the Enter Maintenance Mode task in the vCenter hangs.

This issue is caused by different security policies across hosts.

For security compliance, the defaults for Forged Transmits and MAC address changes have changed between the vSphere 6.x and vSphere 7.0 releases. Default configuration for these security policies has changed to reject by default, instead of accept.

For more information, see <https://kb.vmware.com/s/article/67853>.

Resolution

In the hosts upgraded to 7.x, edit the security policy of the virtual switch vSwitch0 and update the MAC address changes and Forged transmits settings to Reject to match those in the hosts deployed with vSphere 7.x in the same HPE OmniStack cluster.

For more information, see the following HPE SimpliVity Customer Advisory Note: https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00117382en_us.

OMNI-106328: Upload fails with "Failed to upload the upgrade files" if a tampered with or altered Management Virtual Appliance upgrade bundle is placed in the Upgrade Manager directory

The Management Virtual Appliance upgrade bundle, if present in the Upgrade Manager directory, is uploaded to both peer-managed and centrally managed federations. If the Management Virtual Appliance upgrade bundle is corrupted, upload might fail with the error Failed to upload the upgrade files.

Resolution

Re-download the Management Virtual Appliance upgrade bundle together with its associated signature file and restart the Upgrade Manager.

OMNI-107174: SVA is not auto-powered on post-ESXi/Firmware upgrade if the host has guest VMs created on a single replica datastore

When upgrading the ESXi or Firmware components on a host that has guest VMs created on a single replica datastore, the Upgrade Manager might report the upgrade as failed during the Exit Maintenance phase. Furthermore, after some delay, you might notice that the host has exited out of maintenance mode, but the SVA is not powered on automatically despite the ESXi version reflecting the target version in the case of the ESXi upgrade, and the firmware components reflecting the target version in the case of the Firmware Upgrade.

This issue is due to ESXi taking a long time to bring up some of its services, especially the hostd and vpxa services on the hosts that have guest VMs created on a single replica datastore.

Resolution

If the hostd and vpxa services on the ESXi host have not come up completely, wait for several minutes.



Verify that the hostd service is completely up by searching for an entry in the ESXi host log file at `/var/run/log/hostd.log` that is similar to the following example:

```
"[Originator@6876 sub=SoapAdapter.HTTPService] Http Service
started: <server <acceptor p:0x0000003c9cd3fed0, h:27,
<TCP '127.0.0.1 : 8307'>>, >"
```

Verify that the vpxa service has started by checking for log messages in the `/var/run/log/vpxa.log` log file on the ESXi host that are similar to the following examples:

```
"Hostd is responding to vmomi requests"
"Connecting to hostd"
```

When the hostd and vpxa services are completely up and running, if the host is still in maintenance mode, you can manually move it out. When the host has successfully exited maintenance mode, power on the SVA manually. If the SVA fails to come up, contact Customer Support (<https://www.hpe.com/support/hpesc>) for further assistance.

OMNI-107304: Unable to remove the host from a federation

The safe federation removal of a host from a cluster fails.

Resolution

When there is an attempt to delete the last and only node in a federation, the node's HA compliance check should be skipped. To skip the HA compliance check, add the `--override` option to the `svt-federation-remove` CLI command.

OMNI-107305: Firmware upgrade failed using Upgrade Manager with error "Failed to prepare one or more HPE OmniStack hosts for upgrade"

If the Upgrade Manager reports "Failed to prepare the cluster for upgrade", check the `upgrade-orchestrator.log` file for the following error message:

```
** Failed to establish SSH Connection with the HPE OmniStack Host
```

Check if the `jauth.log` file in the failed node contains the following error message during the same time period:

```
** javax.net.ssl.SSLHandshakeException: PKIX path building failed:
java.security.cert.CertPathBuilderException: No issuer certificate for certifi▶
cate
in certification path found.
```

Resolution

Reboot the failed node and retry the upgrade.

OMNI-107327: SimpliVity Actions are not showing on VMs

After migrating to the new vCenter Server, HPE SimpliVity Plug-in for vSphere Client operations are disabled.



Resolution

After performing the vCenter Server migration using the **dsv-update-vcenter** command on every HPE OmniStack host, register the HPE SimpliVity extension for HPE OmniStack host by using the **dsv-hyperproxy register-extension** command in the following format:

```
dsv-hyperproxy register-extension <vCenter Admin username> <vCenter Admin Password>
```

OMNI-107480: Upgrade Manager incorrectly displays HPE OmniStack Upgrade Status as 'Upgrade in progress' when VMware ESXi upgrade fails during an HPE OmniStack and VMware ESXi upgrade

When upgrading HPE OmniStack and VMware ESXi, if the VMware ESXi upgrade fails then the overall cluster upgrade status correctly displays as Failed but the HPE OmniStack upgrade status incorrectly displays as Upgrade in progress.

Resolution

Restart the Upgrade Manager to display the correct HPE OmniStack upgrade status.

OMNI-107588: During ESXi/FW upgrade via UM node gets stuck entering maintenance mode

If any powered-on vCLS VM is placed on a single replica datastore it stops the host from entering maintenance mode.

Resolution

You can either migrate all the VMs that are on single replica datastore to a dual replica datastore, or power off the VM's in a single replica datastore, before attempting the ESXi/Firmware upgrade.

Sometimes VMs are in an invalid state and the **Power off** or **Migrate** options are disabled in vCenter/VCSA. In this case, log in to the respective ESXi host and unregister the invalid VMs before attempting an ESXi/firmware upgrade.

OMNI-107610: During firmware upgrade Upgrade Manager nodes get stuck entering maintenance mode using HPE OmniStack 4.1.1U1

With vCenter version 7.0.1 and above during upgrade, entering maintenance mode might hang if VCLS VMs are in a powered off state.

Resolution

Ensure that VCLS VMs are powered on before you attempt the upgrade. For any issues with VCLS VMs, contact VMware support.

OMNI-107613: Cannot commit HPE OmniStack when ESXi or Firmware upgrade fails

When upgrading HPE OmniStack along with a VMware ESXi or Firmware upgrade, if the HPE OmniStack upgrade alone succeeds and others fail, then the overall cluster upgrade status displays Failed thereby preventing the HPE OmniStack commit operation.



Resolution

Restart the Upgrade Manager to see the Commit option for HPE OmniStack.

OMNI-107637: During ESXi or firmware upgrade, the upgrade might seem to be stuck in exiting maintenance mode on few hosts of a cluster that have single replica datastores

When upgrading the ESXi or Firmware components on a cluster that has a single replica datastore included in the heartbeat datastores list, on some hosts you might notice that the host seems to be stuck while exiting maintenance mode. The reason for this issue is that the ESXi host takes a longer time to shutdown and this results in an error when exiting maintenance mode.

Resolution

On a cluster that has a single replica datastore, ensure that the single replica datastore is not included as part of the heartbeat datastore list. For more information about configuring the heartbeat datastores for clusters that have vSphere HA enabled, see the VMware Configure Heartbeat Datastores documentation at:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.avail.doc/GUID-3E042A65-9E2A-4966-B838-0E24FA54286A.html>

OMNI-107767: Firmware Upgrade did not update Broadcom BCM57414 NetXtreme-E 10Gb/25Gb RDMA Ethernet Controller to version 218.0.166000(B)

The component upgrade failed because the network adapter failed to get the EID for PCI VDM.

Resolution

Retry the firmware upgrade using an SVTSP version later than SVTSP-2021_1001.08.iso.

OMNI-107787: Upgrade Manager fails to upload packages when upgrading

One of the reasons an upgrade might fail when using Upgrade Manager is that the packages fail to upload because the upgrade package file name contains special characters.

Errors similar to the following example display in the `/var/svtfs/0/log/svt-upgrade-spaceprobe.log` file:

```
2021-09-22 09:45:47,922Z WARN task-1 [c.s.u.o.a.i.Host]
moveStagedFileToDatastore(Host.java:2585) - Failed to move /core/Q8A57-111
23_hpe-esxi7.0u2a-17867351-702.0.0.10.7.0.52-offline-bundle (1).zip.part
to /mnt/svtfs/0/57492eda-b85c-42e5-9fd8-55eca880ab22/.svtupgrade/; (Exit-
status: 1): bash: -c: line 0: syntax error near unexpected token `('bash:
-c: line 0: `sudo mkdir -p /mnt/svtfs/0/57492eda-b85c-42e5-9fd8-55eca880ab22
/.svtupgrade/ && sudo mv /core/Q8A57-11123_hpe-esxi7.0u2a-17867351-702.0.0.
10.7.0.52-offline-bundle (1).zip.part /mnt/svtfs/0/57492eda-b85c-42e5-9fd8-
55eca880ab22/.svtupgrade/Q8A57-11123_hpe-esxi7.0u2a-17867351-702.0.0.10.7.0.
52-offline-bundle (1).zip'.
```

Resolution

Rename the upgrade package file to remove the special characters and then restart the Upgrade Manager to retry the upgrade.



OMNI-100812: Upgrade Manager login fails with "Cannot complete login. Please make sure server, username and password are correct and try again"

While upgrading an HPE SimpliVity federation in a vCenter Enhanced Linked Mode configuration, Upgrade Manager will not allow you to log in if one or more vCenter Server/Appliances are offline. This is because Upgrade Manager needs an authenticated session with all vCenter Servers/Appliances in the Enhanced Linked Mode configuration to perform an upgrade.

Resolution

Bring the offline vCenter Servers/Appliances back online, and then log in to Upgrade Manager.



Virtual machine known issues

AMP-2069: Reloading virtual machines causes invalid fault error

When reloading numerous virtual machines, vSphere Client shows A general system error occurred: Invalid fault error for some virtual machines. The cause is that the number of datastores in a datacenter combined with the NFS maximum queue depth setting are overloading the HPE OmniStack host. This condition may cause unavailable or inaccessible datastores, unresponsive hosts, and disconnected virtual machines.

Resolution

Set the NFS maximum queue depth on the HPE OmniStack hosts to reduce I/O congestion to the datastores. The following table lists the recommended NFS maximum queue depth setting based on the number of datastores in a datacenter.

Datstores in a datacenter	NFS.MaxQueueDepth
1-16	256 (default)
17-32	128
33-64	64

To set the NFS maximum queue depth:

- 1 In vSphere Client, select the HPE OmniStack host in the Hosts and Cluster view.
- 2 To open the Settings dialog, click the **Configuration** tab, and then **Advanced Settings** under the Software panel.
- 3 Select **NFS**, and then scroll down to NFS.MaxQueueDepth.
- 4 Change the value to the setting shown in the table.
- 5 Reboot the HPE OmniStack host for the change to take effect.

FRB-2035: Migrating virtual machine resets its backup policy

If you migrate a virtual machine to a different HPE OmniStack datastore, its backups are retained (migrated with the virtual machine). However, the migration operation resets the virtual machine's backup policy to the destination datastore's default policy.

Resolution

Manually create or select an existing backup policy and apply it to the migrated virtual machine.

FRB-2042: Allowed to restore existing virtual machine of virtual machine template from backups created before conversion

If a virtual machine was converted to a virtual machine template, and backups were created before the conversion took place, you are not prevented from using a backup of the virtual machine (before it was a template) to restore the existing virtual machine. The operation succeeds, and vCenter Server continues to show the virtual machine template as a virtual machine template. However, the configuration file in the virtual machine directory in the datastore has a .vmx extension type, and subsequent backups indicate that the backups are for a regular virtual machine rather than a virtual machine template.



Resolution

You can remedy this situation in several ways, including the following options:

- Manually rename the configuration file for the virtual machine template to use a .vmtx extension rather than a .vmx extension. Perform the following procedure:
 - 1** Remove the virtual machine template from the vCenter Server inventory.
 - 2** Browse the datastore, and then manually add the virtual machine back to the vCenter Server inventory. vCenter Server adds it back to the inventory as a regular virtual machine rather than a virtual machine template.
- Convert the virtual machine to a virtual machine template.

Convert the virtual machine template to a regular virtual machine. Then, convert it back from a virtual machine to a virtual machine template.

HIM-4971: Virtual machine folder not deleted when virtual machine deleted in HPE SimpliVity Plug-in for vSphere Client

When you right-click a virtual machine in HPE SimpliVity Plug-in for vSphere Client and select Delete from Disk, the folder containing the virtual machine files might not get deleted from disk. Backups of the virtual machine might be labeled [REMOVED] instead of [DELETED].

Resolution

You can manually delete the virtual machine folder from disk.

HIM-8207: Cannot use HPE SimpliVity Plug-in for vSphere Client or HPE OmniStack CLI to manage virtual machines with identical names

If HPE OmniStack hosts have virtual machines with identical names in the same datacenters, you cannot use the HPE SimpliVity Plug-in for vSphere Client or the HPE OmniStack CLI to manage these virtual machines. You can use the standard vSphere Client to manage these virtual machines. Hewlett Packard Enterprise is working with VMware to resolve this issue.

Resolution

You can rename one of the virtual machines to enable the HPE OmniStack management functionality:

- 1** In the vSphere Client (not using the HPE SimpliVity Plug-in sections), browse the clusters to identify virtual machines with identical names.
- 2** Right-click one of the virtual machines, and then select Rename to rename it with a unique name.
- 3** Repeat Steps 1 and 2 for each virtual machine you want to rename.
- 4** Log in to the HPE OmniStack CLI.
- 5** Run **svt-emergency-hms-sync** on each Virtual Controller in the datacenter with a renamed virtual machine to sync the Virtual Controller with vSphere.

You can now use the HPE SimpliVity Plug-in for vSphere Client options in vSphere and the HPE OmniStack CLI to manage these virtual machines.

HIM-11399: Powering on or using vMotion on virtual machines stalls at 16%

Powering on or using vMotion on multiple virtual machines results in some virtual machines stalling at 16%.



Resolution

Disable DRS on the cluster with the stalled virtual machines, reboot the vCenter Server, and then power on the stalled virtual machines. Re-enabling DRS could cause a reoccurrence of this issue.

OMNI-15124: Unable to perform HPE OmniStack operations on virtual machine after migrating it to an HPE SimpliVity datastore

After migrating a virtual machine to an HPE SimpliVity datastore, users can no longer perform HPE OmniStack operations on it, and it no longer appears through the CLI. This applies to virtual machines that are created on non-HPE SimpliVity storage.

Resolution

For more information, contact Customer Support (<https://www.hpe.com/support/hpesc>).

OMNI-23381: Saving credentials for virtual machine in Linked Mode configuration fails

If you are trying to save credentials for a guest virtual machine in a vCenter Server that is part of a Linked Mode configuration, the operation may fail.

Resolution

Access a Virtual Controller that is in the same vCenter Server as the virtual machine for which you are trying to save credentials. Then run **svt-vm-backup-params-set** to manually set the credentials for the virtual machine. Alternatively, you can try to log in to the vSphere Client for the vCenter Server with which the virtual machine is associated.

OMNI-42497: svt-vm-move command fails and virtual machine does not appear in the datastore inventory

If the **svt-vm-move** command fails to move a virtual machine, and the virtual machine no longer resides in the original datastore inventory, then you must manually add the virtual machine to the inventory.

Resolution

Using the vSphere client, browse the original datastore contents, and add the virtual machine to the inventory.



Rest API known issues

The following issues apply to this release.

OMNI-46361: REST API GET operations for backup objects and sorting and filtering constraints

For a given filter property, only one value is supported as an input to the filter, not a comma separated list of values. Some properties do not support the case insensitive filter option. The GET operation for backups always uses case insensitive sorting. You cannot sort on the following fields:

- virtual_machine_type
- virtual_machine_id
- sent_completion_time
- hypervisor_type
- sent_duration
- datastore_id
- computer_cluster_parent_hypervisor_object_id
- omnistack_cluster_id

REST API does not support the following filters:

- sent_duration_min
- sent_duration_max
- sent_completion_before
- sent_completion_after

This impacts a script calling directly into a REST API.

OMNI-69918: GET /virtual_machines fails with OutOfMemoryError

If your GET /virtual_machines call retrieves more than 8000 virtual machines, you might encounter an OutOfMemoryError exception similar to the one shown below:

```
{
  "exception": "com.simplivity.managedmodel.exceptions.SvtExceptionUtil
  $InternalServerErrorException",
  "path": "/api/virtual_machines",
  "message": "OutOfMemoryError",
  "timestamp": "2019-04-30T13:08:59Z",
  "status": "500"
}
```

Resolution

Use filters to reduce the number of virtual machines that are returned in a single call. For example, you can retrieve the virtual machines based on omnistack_cluster_id, state, datastore_name, and so on.



VMware known issues

The following issues apply to this release.

OMNI-9887, OMNI-8822: vCenter Server anomalies after restoration

After restoring a vCenter Server, you may have to perform an action that changes the inventory, such as adding or deleting a host. If you change the inventory prior to creating a new backup, the changes are missing if you need to restore the vCenter Server.

Issue	Cause	Action
An extra ESXi host is in the inventory after you restore the vCenter Server, and the host is in a disconnected state	Deleted an ESXi host after the restored backup was created.	Remove the host.
An ESXi host you added does not exist after the vCenter Server is restored	Added an ESXi host after the backup was created.	Add the host where it is needed.
A virtual machine that you removed reappears after you restore the vCenter Server	Removed the virtual machine after you create the backup.	Remove or delete the virtual machine.
An orphaned virtual machine appears after you restore the vCenter Server	Performed an HPE OmniStack move or when you delete the virtual machine from the disk.	Remove the orphaned virtual machine from inventory.
A datastore that you removed from the federation appears in the storage view after you restore the vCenter Server		Remove or unmount the datastore.

OMNI-10839: Performing IP change on vCenter Server not supported by VMware

This is a VMware issue. You cannot change the vCenter Server or Platform Service Controller host name in vCenter Server 6.x.

Resolution

See VMware KB 2130599 for more information.

OMNI-24369, AMP-417: Incorrect messages display after upgrading vCenter Server

After upgrading your vCenter Server, the vSphere Client displays incorrect names and messages for HPE SimpliVity events, alarms, and tasks. For example, the name of a task might display as:XXX com.simplivity.task.vmware.vm.snap.manual.label not found XXX.

Resolution

Run this command to correct the message text for new HPE SimpliVity events, alarms, and tasks: **svt-extension-refresh**.



CAUTION: This command clears all HPE SimpliVity events, alarms, and tasks. For information about this command, see the *HPE OmniStack Command Reference Guide*.

OMNI-24710: Virtual Machine Memory Usage alarm appears incorrectly on Virtual Controller in vCenter Server 6.5

In a vCenter Server 6.5 environment, the Virtual Controller triggers a Virtual Machine Memory Usage alarm and shows full memory utilization, when in fact this is not the case.

Resolution

This is a vCenter Server issue. ESXi treats all memory as pinned and disables sampling on virtual machines with passthrough devices. This results in active memory reported at 100%. vCenter Server 6.5 is not aware of this new behavior, and therefore triggers the alarm. For the Virtual Controller, you can ignore this alarm.

OMNI-25441: DRS not automatically migrating some virtual machines and causes No host is available error

This is a vSphere issue. In some cases DRS does not process Intelligent Workload Optimizer (IWO) rules properly and users see the following error:

```
No host is available for the virtual machine that satisfied its preferred VM/HostDRS affinity or anti-affinity rules
```

Resolution

- 1 Disable IWO using the `svt-iwo-disable` command.
- 2 Wait for all groups and rules to be deleted.
- 3 Enable IWO using the `svt-iwo-enable` command.

This creates the same set of groups and rules, and it triggers vSphere to reprocess these rules.

OMNI-36054: vSphere Fault Tolerance is not supported

HPE OmniStack does not support the vSphere Fault Tolerance feature. If you enable vSphere Fault Tolerance, you cannot use the main features in the HPE OmniStack REST API, CLI, or the HPE SimpliVity Plug-in for vSphere Client.

OMNI-64957: HPE SimpliVity operations disabled for virtual machines migrated with VMware vMotion

After using VMware Storage vMotion to migrate multiple virtual machines, HPE SimpliVity Plug-in for vSphere Client and command line interface operations are disabled for the migrated virtual machines.

Resolution

This is the result of vCenter Server limitations on the number of simultaneous migrations allowed on a host. Operations will be restored on the migrated virtual machines as resources become available. For more information, refer to [Limits on Simultaneous Migrations](#) in the vCenter Server and Host Management guide.

SNI-87: Unable to log in using Single Sign-on after session timeout

This problem occurs only when you use the HPE OmniStack CLI. The HPE SimpliVity Plug-in for vSphere Client is unaffected. After a session timeout, you are unable to use the CLI to log in using Single Sign-on (SSO). If you are managing a federation



using a Single Sign-on account with vCenter Servers in Linked Mode, after a session timeout, each vCenter Server requires that you re-enter your credentials to sign on.

Resolution

Enter your credentials for each vCenter Server in Linked Mode.



Resource Balancing known issues

The following issues apply to this release.

HIM-12276: Capacity balance issue when adding to existing datacenters

When building out an existing datacenter with additional HPE OmniStack hosts, a potential capacity balance issue may arise regarding remote backups.

The initial remote backup for a new virtual machine is assigned two hosts (one for each replica) in the target datacenter based on overall capacity and IOPs — the lightest loaded hosts, in this sense. Subsequent remote backups for this virtual machine be placed in accordance with this assigned these two hosts (leveraging affinity for de-duplication properties) by following the last fully protected remote backup hosts. One implication of this strategy: When the hosts of the datacenter(s) is increased it may result in an imbalance of remote backups, regardless if the active virtual machines are redistributed or re-balanced in the source datacenter. The new hosts do not automatically balance these remote backups.

Resolution

The affected datacenter may require manual removal of backups, and a lowering of the policy frequency and retention rate to maintain performance.



Stretched clusters known issues

The following issues apply to this release.

OMNI-911: Backup replica zone-compliance appears on HPE OmniStack host

In certain circumstances, when you remove HPE OmniStack hosts from a Stretched Cluster or you reassign HPE OmniStack hosts to zones in an existing Stretched Cluster, your backup replicas may become non-zonecompliant. This means that these non-zone-compliant backups may not survive a zone failover. In such a situation, an alarm is raised on every HPE OmniStack host with these non-zone-compliant backups.

Note: This issue does not affect virtual machines; it only affects backups.

Resolution

If you observe these alarms in your HPE OmniStack host, contact Customer Support (<https://www.hpe.com/support/hpesc>) to rectify the situation.

OMNI-22589: Creating backups during zone modification and realization affects performance

When a zone change is realized on an existing cluster configuration, some data needs to be migrated between stretched cluster hosts to ensure Availability Zone compliance. On some systems with many virtual machines and backups, the amount of data to be migrated can be significant. Because all data migrations to achieve zone compliance are throttled and because they compete with other network traffic, it is recommended that you stop all backups before zone configuration realization and then resume them after all healing migrations are complete.

Resolution

Run the following command to suspend all backup policies active in the system:

```
# svt-policy-suspend --all
CONFIRMATION/WARNING:
This command suspends policy-based backups on the OmniCube(s). Note that it
can take an extended time for backups to reach a quiesced state.
Proceed? (y/n): y
Task to suspend backup policy with id 42211720-6972-b397-38f2-615376cefc97
:42211720-6972-b397-38f2-615376cefc97:36af498d-e441-4c18-bb3b-a3f94c103af8
has been started.
```

To view the progress of the task, run the following command:

```
# svt-task-show --task 42211720-6972-b397-38f2-615376cefc97:42211720-6972-
b397-38f2-615376cefc97:36af498d-e441-4c18-bb3b-a3f94c103af8
task 42211720-6972-b397-38f2-615376cefc97:42211720-6972-b397-38f2-615376cefc97:
36af498d-e441-4c18-bb3b-a3f94c103af8 is 100 percent complete.
```

Once all zone healing migrations for virtual machines and backups complete, resume all backup policies in the host by running the following command:

```
# svt-policy-resume --all
This command resumes policy-based backups.
```

```
Proceed? (y/n): y
Task to resume backup policy with id 42211720-6972-b397-38f2-615376cefc97:
42211720-6972-b397-38f2-615376cefc97:54440c4b-d405-4468-9f32-26875ed9ec38
has been started.
```

To view the progress of the task, run the following command:

```
# svt-task-show --task 42211720-6972-b397-38f2-615376cefc97:42211720-6972-
b397-38f2-615376cefc97:54440c4b-d405-4468-9f32-26875ed9ec38
task 42211720-6972-b397-38f2-615376cefc97:42211720-6972-b397-38f2-615376cefc97
:54440c4b-d405-4468-9f32-26875ed9ec38 is 100 percent complete.
```

OMNI-83548: Attempt to remove stretch cluster configuration with disconnected Arbiter fails until the Arbiter is reconnected

If you attempt to remove a stretched cluster configuration from a cluster (meaning unstretching a cluster), and Arbiter is disconnected, then **svt-zone-realize** fails.

Resolution

Contact Customer Support (<https://www.hpe.com/support/hpesc>) to reconnect the Arbiter. After Arbiter is reconnected, run **svt-zone-realize**.



Appendix A: Support and other resources

This section contains the following topics:

- Support and other resources
- Documentation feedback

Support and other resources

Accessing Hewlett Packard Enterprise Support:

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:
<https://www.hpe.com/info/assistance>
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:
<https://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
<https://www.hpe.com/support/hpesc>
 - My HPE Software Center: Software downloads
<https://www.hpe.com/software/hpesoftwarecenter>
- To subscribe to eNewsletters and alerts:
<https://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:
<https://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.



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 initiates a fast and accurate resolution based on the service level of your product. 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.

HPE Get Connected

<https://www.hpe.com/services/getconnected>

HPE Pointnext Tech Care

<https://www.hpe.com/services/techcare>

HPE Datacenter Care

<https://www.hpe.com/services/datacentercare>

Warranty information

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

HPE ProLiant Servers and Options <https://www.hpe.com/support/ProLiantServers-Warranties>

HPE Enterprise and Cloudline Servers <https://www.hpe.com/support/EnterpriseServers-Warranties>

HPE Storage Products <https://www.hpe.com/support/Storage-Warranties>

HPE Networking Products <https://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:

<https://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: <https://www.hpe.com/info/reach>

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see: <https://www.hpe.com/info/ecodata>

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see: <https://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, use the Feedback button and icons (located at the bottom of an opened document) on the Hewlett Packard Enterprise Support Center portal (<https://www.hpe.com/support/hpesc>) to send any errors, suggestions, or comments. All document information is captured by the process.

