

HP Virtual Connect 3.75 Release Notes

Abstract

This document provides Virtual Connect release information for version 3.75. This document supersedes the information in the documentation set released with version 2.3x, 3.0x, 3.1x, 3.30, 3.51, 3.60, and 3.70. This document is intended for the person who installs, administers, and troubleshoots servers and storage systems. HP assumes you are qualified in the servicing of computer equipment and trained in recognizing hazards in products with hazardous energy levels.



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Update recommendation

Update Recommendation: Recommended

Supersede information

Supersedes: 3.70

Product models

Virtual Connect 3.75 is supported on the following interconnect modules:

- HP VC Flex-10/10D Module
- HP VC FlexFabric 10Gb/24-port Module
- HP VC Flex-10 10Gb Enet Module
- HP VC 4Gb FC Module (409513-B22 - End of Life announced in December, 2011)
- HP VC 8Gb 20-Port FC Module
- HP VC 8Gb 24-Port FC Module



IMPORTANT: The HP 1/10Gb VC Enet Module (399593-B22) and the HP 1/10Gb-F VC Enet Module (447047-B21) are no longer supported.

Operating Systems

The HP Virtual Connect version 3.75 firmware package operates in an embedded environment within each Virtual Connect module; therefore, it is not dependent on any operating system.

For more information, see the HP Operating Systems and Virtualization Software Support for ProLiant Servers web page on the HP website (<http://h18004.www1.hp.com/products/servers/software/index.html>).

Languages

Enhancements

Version 3.75 of Virtual Connect contains support for the following enhancements:

- Support for new hardware:
 - AJ716B Avago B-series 8Gb transceivers
 - AJ716B Finisar B-series 8Gb transceivers
- Browser support:
 - Firefox 10 and 15

Version 3.70 of Virtual Connect contains support for the following enhancements:

- Support for new hardware:
 - HP Virtual Connect Flex-10/10D Module
 - HP ProLiant BL660c Gen8 Server series
 - HP ProLiant WS460c Gen8 Workstation series
 - HP Integrity BL860c i4 Server Blades
 - HP Integrity BL870c i4 Server Blades
 - HP Integrity BL890c i4 Server Blades
 - HP 7m C-series Active Copper SFP+ cables (QK701A)
 - HP 10m C-series Active Copper SFP+ cables (QK702A)
 - Cisco 7m copper active Twinax cables (SFP-H10GB-ACU7M)
 - Cisco 10m copper active Twinax cables (SFP-H10GB-ACU10M)
- Virtual Connect Direct-Attach Fibre Channel for HP P10000 3PAR Storage Systems, HP 3PAR T-Class and F-Class Storage Systems
- Manageability enhancements:
 - VCM GUI access to telemetry information
 - Advanced telemetry and statistics for Link Aggregation Groups and FlexNICs
 - GUI access to the FC Port Statistics for HP FlexFabric 10Gb/24-port Modules
 - Improvements to the Statistics Throughout display and data collection
 - Display of factory default MACs and WWNs in server profiles
 - Added an FC/FCoE “Connect To” field to help identify how server ports are connected to the uplink ports
 - LLDP enhancements to more easily identify VC Ethernet modules on the network
 - Improvements to the display of the MAC Address table to show the network name and VLAN ID where the MAC address was learned, as well as display of the LAG membership table
- VCM GUI/CLI task progress activity indicator for predefined VCM operations
- Security enhancements:

- Support for 2048 bit SSL certificates and configurable SSL-CSR
- Activity logging improvements for TACACS+ accounting
- Option to disable local account access when LDAP, RADIUS, or TACACS+ authentication is enabled
- Increased the default VCM local user account minimum required password length
- SNMP access security to prevent access from unauthorized management stations
- SmartLink failover improvements
- IGMP "NoFlood" option when IGMP snooping is enabled
- Browser support:
 - Internet Explorer 8 and 9
 - Firefox 10 and 11
- Firmware upgrade rollback from a previous firmware upgrade without domain deletion

Fixes

The VC 3.75 release resolves the following issues:

- An error message: "The operation resulted in the following error null" appeared when trying to copy a working profile with multiple networks that belong to a user-defined network access group.
- HP VC 4/8 Gb 20-port FC modules could not operate at 8Gb reliably when connecting to Cisco Nexus 5xxx series switches.
- The "Go to Network" action on the Ethernet Networks (Server Connections) screen did not open the Edit Network screen.
- The Virtual Connect Manager CLI did not allow modification of an already existing Ethernet profile connection with an index of 100 or higher.
- An extra button appeared when using Internet Explorer 8 to view the Detailed Statistics screen for FC uplink ports on a VC FlexFabric module. If this button was clicked, and then the Back to Previous Page button was clicked, it changed the tabs in the main window. The extra button is removed.
- DCC stayed unavailable after server power on and online speed changes failed.
- VCM CLI parameters passed to commands were not being enclosed by quotes, and any quotes embedded in the data should also be protected by an escape character.
- The Name-server had the wrong portID and WWN displayed. This issue usually occurred when power cycling all servers in an enclosure at the same time.
- Resolved an issue caused by enabling the "Prevent flooding of unregistered multicast traffic" option when using VCEM to manage the VC domain with the "VCEM Compatibility Mode" set to a VC firmware version earlier than 3.70.

The VC 3.70 release resolves the following issues:

- A non-user friendly SOAP error message appeared in the GUI after a DELETE DOMAIN confirmation. This might have happened when a user logged in with multiple sessions tried to log out from one session (either a tab or window), or if another user deleted the VC domain.

- The output from the CLI show uplinkset command was not sorted by vNet name or VLAN ID.
- VCM incorrectly cleared the module configuration of the Primary VC module and was still unable to acquire an IP address after all retries were exhausted. If VCM incorrectly cleared the module configuration and VCSU was used to check the VC health state, VCSU reported that the module was not configured.
- Changing uplink ports in a SUS removed SmartLink settings on all vNets.
- The "Connector Type" displayed by VCM and the information displayed on the Detailed Statistics screen were not consistent when one of the uplinks ports X1-X4 on the FlexFabric module was not configured for FC or was configured for Enet but had an FC SFP transceiver inserted into the SFP cage.
- VC Unknown (unmanaged) module states (Operational, VC, OA, and Comm) were not being displayed in a consistent manner.
- When a profile had more than 162 connections, the maximum number allowed, defined on a physical Flex-10 port, the port was disabled when the profile was applied and the port status displayed as Disabled.
- When using the Virtual Connect Support Utility (VCSU) or HP Smart Update Manager (HP SUM), Virtual Connect firmware upgrades from VC 3.18 or earlier could fail on a single module when updating to VC firmware later than version 3.51. This fix addressed Customer Advisory c03395976, which can be found on the HP website (<http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?objectID=c03395976>).
- PXE, iSCSI, or FCoE boot could fail to be invoked on Gen8 servers.
- The GUI fabric status was green for uplinks that were linked to the Enet switch, even though the port type was FC and FC SFP transceivers were installed.
- Resolved security vulnerability CVE-2010-4180.
- HP VC Flex-10 and FlexFabric modules could experience an extended timeout when re-establishing the Link Aggregation Group (LAG). This issue could increase the possibility of encountering a ping loss, and the likelihood of encountering a lost ping also increased with the number of port members in the LAG that were being recovered or reintegrated.
- GUI performance was improved to prevent Flex applications from reloading on each navigation event.
- When using IE9 to activate the VC GUI, no error message appeared when executing without Adobe Flash Player.
- The GUI allowed creation of a new domain from an existing configuration file without a proper warning to power off the server blades.
- If an Enet connection was configured with multiple networks and custom speed settings, the output of the `show config` command did not preserve the Custom speed setting and reverted the connections back to the Preferred speed setting.

Issues and workarounds

Issue

If a BL870c i2 server is present in bays 3 and 4 of a C3000 enclosure, then the Hardware Overview page in VC Manager does not display the correct graphical picture of the server. However, VC Manager does manage the server properly, it is only the graphical image that is not correct.

Issue

The Virtual Connect Manager CLI interface does not allow creation of the local user account with a password containing the '|' (pipe) special character.

Workaround

Use the VCM GUI to create a local user account with a password containing the '|' (pipe) special character.

Issue

VC occasionally reports a loss of communication with a remote enclosure. VC automatically recovers the communication within seconds.

Issue

The search functionality in the left navigation tree of the GUI is incomplete. The help text states that you can search for Network Access Groups, Modules, Interconnect Bays, and Device Bay items. These options are not implemented in this release. To access a specific item, use the corresponding link in the left navigation tree, and then locate the item on the right side of the screen.

Issue

While configuring a Shared Uplink Set in failover mode using the GUI, the GUI incorrectly allows uplink ports that are designated as Primary ports to be deleted, which can render the Shared Uplink Set without any Primary uplink ports.

Workaround

When using the GUI to configure a Shared Uplink Set, do not attempt to remove the uplink port designated as Primary.

Issue

In a VC domain with a VC profile assigned to a BL2x220 server blade, when the I/O module connected to the dual-technology port is replaced with a module using the other technology, the OA detects that the identity of the server changed, but VC does not detect the change. As a result, the OA will not power on the server until VC updates the server configuration.

Workaround

To resolve the problem, unassign and reassign the profiles to the two server bays (for example, Bays 1a and 1b), hot-plug the server, or simulate a hot-plug of the server using the OA `reset server` command. The problem can also be resolved if VC restarts, fails over, reboots, receives a firmware update, or re-evaluates the server after an OA failover.

Issue

Clicking **Backup Configuration** on the Domain Settings (Backup/Restore) screen and then navigating away from that screen does not save the configuration file.

Workaround

During the backup operation, do not refresh the screen or navigate to another screen.

Issue

Under rare conditions, if the time setting on an enclosure is modified in such a way that the HP VC 8Gb 20-Port FC Module or the HP Virtual Connect 4Gb FC Module set the DHCP lease renewal date far in the future, the module might stop renewing the lease, which can potentially result in duplicate IP address assignments in the network.

Issue

The SCSI command aborts under load with the HP VC 8Gb 24-Port FC Module.

Issue

The HP VC 8Gb 24-Port FC Module does not respond to the HP Insight Control `cpqHoGUID MIB` request and reports as an error.

Workaround

Remove the FC module from the query.

Issue

During an OA failover, the VC GUI might be unable to communicate with VCM for some amount of time. However, VCM is still operational and working to recover from the OA failover. During this time, the browser might display an alert dialog to inform you about the loss of communication. Additional alert dialogs might then be displayed for WebService calls that fail.

Workaround

Start a new VCM GUI session and OA credentials can be restored successfully.

Issue

When an HP VC 8Gb 24-Port FC Module is connected to Brocade 16Gb switches and directors or to Cisco MDS 9000 series switches with an advanced 8Gb line card, the link between the VC-FC module and the switch can only negotiate to 4Gb instead of 8Gb. For more information, see the HP website (<http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?objectID=c03521759>).

Workaround

Lock the switch port speed to 8Gb for the port to which the FC module is connected.

Issue

HP Systems Insight Manager might incorrectly identify the HP VC 8Gb 24-Port FC Module as a SAN switch due to the incorrect value returned in the `SysObjectId`.

Issue

Virtual Connect Manager might reset when it contains more assigned and unassigned profiles than can be in use by physical servers in the domain.

Issue

The VCM CLI `show uplinkport` command does not display the serial numbers for pluggable modules.

Issue

For double-dense server blades, the side B server mezz port mapping is incorrect.

Issue

The timestamp for SNMP traps from VC-FC interconnect modules is not in sync with the timestamp kept by Virtual Connect Manager.

Issue

Even though the VC iSCSI boot from SAN implementation allows you to select LUN values from 0-255, the adapter firmware limits the supported LUN values to 0-8

Issue

Under certain circumstances, the checkpoint status icon in the GUI persists for a long time and is not cleared. The CLI also shows a "Checkpoint Status: Invalid" status in the `show domain` command output. This condition occurs periodically after a VCSU firmware upgrade of the VC module firmware.

Workaround

To resolve this issue, reset VCM on the primary module or reset the primary module using the OA.

Issue

When multiple Internet Explorer 7 browser sessions are open to the Virtual Connect Manager application, the VC GUI might hang.

Workaround

Add the following registry value:

```
[HKLM\HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings] "MaxConnectionsPerServer"=dword:6
```

By default, this registry value does not exist and Internet Explorer 7 defaults to the value of 2. Increasing the value to 6 resolves the hanging issue. Internet Explorer 8 defaults to a value of 6, so this issue does not occur. The Firefox web browser also defaults to a higher value.

Prerequisites

- Immediately review OA Customer Advisory c02639172 on the HP website (<http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?lang=en&cc=us&objectID=c02639172>) to see if any recent changes made to the enclosure configuration are at risk of not being persistently preserved. If you made changes using a non-Administrator user account, before the next OA firmware upgrade or reset, execute the workaround documented in Customer Advisory c02639172 to ensure that the enclosure configuration changes are being persistently preserved. The issue described in Customer Advisory c02639172 is resolved with OA 3.21 and later.
- The lowest VCEM 7.1.1 support compatibility mode is now set to VC 3.30.
- If you are planning to use VC 3.75 firmware in a VCEM environment, HP recommends upgrading to VCEM v7.1.1. For more information about the VC firmware that is compatible with VCEM, see the *Virtual Connect Enterprise Manager User Guide* on the HP website (<http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?contentType=SupportManual&lang=en&cc=us&docIndexId=64179&taskId=101&prodTypeId=18964&prodSeriesId=3601866>).
- Customers using Insight Control for VMware vCenter Server should upgrade to version 6.3 when using Virtual Connect firmware version 3.30 and later. Version 6.3 fixes a known issue with version 6.2 where Virtual Connect data did not display correctly.
- The Virtual Connect GUI requires a minimum of 512 MB of available memory to operate efficiently.

- To operate with HP VC 8Gb 20-Port FC Modules, all HP Emulex LPe 1205 8Gb FC HBAs that are revision A (identified by label EDC A-4904) must perform a CFL region 19 flash update. For download and installation instructions, see the LPe1205 product page on the HP website (<http://www.hp.com>).
- Virtual Connect Manager version 3.75 requires Adobe Flash Player 10.x or higher before you can log in. HP recommends updating to Adobe Flash Player 10.2 or higher. When using IE9, HP recommends using Adobe Flash Player 10.3.181.16 or higher.

The recommended Adobe Flash Player web browser plug-in can be downloaded and installed from the Adobe website (<http://get.adobe.com/flashplayer/>), or downloaded as a standalone executable from the Adobe website (<http://www.adobe.com/downloads>).

For the latest Adobe Flash Player Security Bulletin Updates, see the Adobe website (<http://www.adobe.com/support/security/index.html#flashplayer>).

Installation instructions

Two options are available for VC firmware update:

- **HP BladeSystem c-Class Virtual Connect Support Utility**
For this release of HP Virtual Connect, the minimum firmware requirement for VCSU is version 1.7.1. HP recommends that you always use the latest version available. For more information about VCSU, see the HP BladeSystem c-Class Virtual Connect Support Utility release notes on the Installing tab of the HP BladeSystem Technical Resources website (<http://www.hp.com/go/ bladesystem/ documentation>). To download the VC firmware and the VCSU utility, view the BladeSystem for ProLiant Release Set Compatibility Table on the HP website (<http://www.hp.com/go/ bladesystemupdates>) and select the appropriate download.
- **HP Service Pack for ProLiant**
SPP is the replacement product for Insight Foundation (PSPs, Smart Update Firmware DVD, and other systems software). To download the update, see the HP Service Pack for ProLiant website (<http://www.hp.com/go/ spp>).

Firmware upgrade requirements



IMPORTANT: When updating VC firmware, update each domain with the entire firmware package, which includes the individual VC-Enet and VC-FC firmware. Updating only the VC-Enet firmware or only the VC-FC firmware is not supported.



IMPORTANT: For VC 3.75 upgrades when Virtual Connect Enterprise Manager (VCEM) is in use, HP recommends upgrading to VCEM v7.1.1. For more information about the VC firmware that is compatible with VCEM, see the latest version of the *Virtual Connect Enterprise Manager User Guide* on the HP website (<http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?contentType=SupportManual&lang=en&cc=us&docIndexId=64179&taskId=101&prodTypeId=18964&prodSeriesId=3601866>).

Each HP Virtual Connect firmware package contains a separate HP VC-FC firmware version. The following tables show the version of VC-FC firmware included with each VC firmware package.



IMPORTANT: When upgrading the HP VC 4Gb FC firmware from version VC-FC 1.2x to version VC-FC 1.4x, the VC-FC module can drop connectivity temporarily during the activation process. A redundant customer configuration experiences a failover with no loss of application connectivity to the fabric.

Virtual Connect firmware	VC 4Gb FC firmware within Virtual Connect	VC 8Gb 20-Port FC firmware within Virtual Connect	VC 8Gb 24-Port FC firmware within Virtual Connect
v1.31	1.20	—	—
v1.32, v1.34	1.21	—	—
v2.01, v2.02	1.30	—	—
v2.10, v2.12	1.32	1.32	1.00
v2.30–v2.33	1.40	1.40	1.01
v2.34	1.41	1.41	1.01
v3.0x	1.40	1.40	1.02
v3.10, v3.15	1.41	1.41	1.03
v3.17, v3.18	1.41	1.41	1.04
v3.30	1.42	1.42	1.04
v3.51, v3.60, v3.70	1.43	1.43	1.04
v3.75	1.44	1.44	1.04

The following table shows firmware upgrade/downgrade support for the HP VC 4Gb FC Modules or HP VC 8Gb 20-Port FC Modules.

Upgrade to or downgrade from	1.31	1.32, 1.34	2.01, 2.02	2.10, 2.12	v2.3x	3.0x	3.10, 3.15, 3.17, 3.18	3.30, 3.51, 3.60, 3.70, 3.75
VC 1.31	—	Normal	Fabric outage*	Fabric outage*	Fabric outage*	Fabric outage*	Fabric outage*	Fabric outage*
VC 1.32/1.34	Normal	—	Fabric outage*	Fabric outage*	Fabric outage*	Fabric outage*	Fabric outage*	Fabric outage*
VC 2.01/2.02	Fabric outage*	Fabric outage*	—	Normal	Normal	Normal	Normal	Normal
VC 2.10/2.12	Fabric outage*	Fabric outage*	Normal	—	Normal	Normal	Normal	Normal
VC 2.3x	Fabric outage*	Fabric outage*	Normal	Normal	—	Normal	Normal	Normal
VC 3.0x	Fabric outage*	Fabric outage*	Normal	Normal	Normal	—	Normal	Normal
VC 3.10/3.15/ 3.17/3.18	Fabric outage*	Fabric outage*	Normal	Normal	Normal	Normal	—	Normal
VC 3.30/3.51/ 3.60/3.70/3.75	Fabric outage*	Fabric outage*	Normal	Normal	Normal	Normal	Normal	—


* Always reset the module after the upgrade or downgrade.

On HP Virtual Connect 4Gb Fibre Channel Modules (with enhanced NPIV), downgrading the firmware to any version older than VC 2.10 is not supported.

Firmware version for HP BladeSystem for ProLiant

The firmware versions and software versions listed in this section have been tested as a solution set using HP Service Pack for ProLiant 2013.02.00 as a baseline, and are fully supported by HP. For Virtual Connect version 3.75, HP recommends the use of SPP version 2013.02.00 with updates for specific components of the solution. For best results, follow the pre-deployment planning steps in the *HP Virtual Connect for c-Class BladeSystem Setup and Installation Guide* and the *HP BladeSystem ProLiant Firmware Management Best Practices Implementer Guide* on the HP website (http://h18004.www1.hp.com/products/servers/service_packs/documentation/index.html) to deploy the baseline set with component updates.

HP Service Pack for ProLiant is the replacement product for Insight Foundation (PSPs, Smart Update Firmware DVD, and other systems software). To download the update, see the HP Service Pack for ProLiant website (<http://www.hp.com/go/spp>).

 **CAUTION:** HP recommends using the specific firmware and software versions listed together in SPP 2013.02.00 to ensure complete solution component compatibility and full functionality. These versions have been tested as a set. Using other version levels might result in operational issues.

Baseline Firmware Release Set

The contents of SPP 2013.02.00 is documented in the *HP Service Pack for ProLiant 2013.02.00 Release Notes* and *HP Service Pack for ProLiant 2013.02.00 Server Support Guide* on the HP website (http://h18004.www1.hp.com/products/servers/service_packs/documentation/index.html).

Additional information


Versions 3.15 and higher of HP Virtual Connect Manager check the server ROM image version and display an incompatible state only for server blades that have a VC Server Profile assigned and are using incompatible server ROM versions.

Virtual Connect does not have the capability to perform version checking of the mezzanine card firmware. Validate this information through server POST for mezzanine support utilities.

Server blades and mezzanine cards that do not meet the required firmware versions do not accept Virtual Connect-assigned parameters such as MACs and WWNs properly, and therefore maintain factory defaults. However, these server blades do have the Ethernet network and Fibre Channel fabric connectivity specified in their Virtual Connect server profiles. This connectivity enables you to use network-based firmware update tools for server blade and mezzanine firmware updates.

For Virtual Connect Fibre Channel and FlexFabric modules, the supported firmware and OS drivers are listed in the HP Single Point of Connectivity Knowledge (SPOCK) website (<http://www.hp.com/storage/spock>). The link to Virtual Connect is under the category "Other Hardware" in the list of selections on the left.

Firmware version for HP BladeSystem for Integrity

 **CAUTION:** HP recommends using the specific firmware and software versions listed together in SPP 2013.02.00 to ensure complete solution component compatibility and full functionality. These versions have been tested as a set. Using other version levels might result in operational issues.

Baseline Firmware Release Set

HP Integrity i2 Server Blade	Version
HP Smart Updated Firmware – HP Integrity BL860c/870c/890c i2 System Firmware Bundle for Linux/Windows (http://h18004.www1.hp.com/products/blades/integrity-release-sets.html)	26.35

HP Integrity i4 Server Blade	Version
HP Smart Updated Firmware – HP Integrity BL860c/870c/890c i4 System Firmware Bundle for Linux/Windows (http://h18004.www1.hp.com/products/blades/integrity-release-sets.html)	42.06
HP Integrity Server Blade	Version
HP Integrity BL860c (http://h20000.www2.hp.com/bizsupport/TechSupport/SoftwareIndex.jsp?lang=en&cc=us&prodNameId=3351095&prodTypeId=3709945&prodSeriesId=3331044&swLang=13&taskId=135&swEnvOID=4001)	04.31
HP Integrity BL870c (http://h20000.www2.hp.com/bizsupport/TechSupport/DriverDownload.jsp?lang=en&cc=us&prodNameId=3676869&taskId=135&prodTypeId=3709945&prodSeriesId=3676868&lang=en&cc=us)	04.31

Important notes

- When connecting a Virtual Connect FlexFabric 10Gb/24-port Module directly to 3PAR storage systems in the VC multi-enclosure environment, a server profile migration of a SAN-booted server between enclosures is not supported. Similarly, in the domains managed by Virtual Connect Enterprise Manager (VCEM), a server profile migration of a SAN-booted server between enclosures within the same Domain Group or between different Domain Groups is not supported.
To perform a server profile migration of a SAN-booted server between enclosures directly attached to a 3PAR storage system in the VC multi-enclosure environment, the following manual steps are required:
 - a. Power off the server.
 - b. Un-assign the server profile.
 - c. Change the Primary and Secondary Target WWNs in the FC Boot Parameters section of the profile to reflect the WWNs of the 3PAR storage array ports directly connected to the destination enclosure.
 - d. Assign the profile to the destination location.
 - e. Power on the destination server.
- Although the GUI enables the selection of SNMP v2 traps, the VC 4Gb FC Module and the VC 8Gb 20-Port FC Module remain as v1 traps.
- Changes in the server RBSU can override Virtual Connect server profile settings for PXE (enabled or disabled). If you make a change in RBSU, that change is not reflected in Virtual Connect Manager. If you set PXE through RBSU, HP recommends using the "Use-BIOS" setting.

Related information

Virtual Connect Enterprise Manager support

For information about the VC firmware that is compatible with VCEM, see the latest version of the *Virtual Connect Enterprise Manager User Guide* on the HP website (<http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?contentType=SupportManual&lang=en&cc=us&docIndexId=64179&taskId=101&prodTypeId=18964&prodSeriesId=3601866>).

Documentation feedback

HP is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (<mailto:docsfeedback@hp.com>). Include the document title and part number, version number, or the URL when submitting your feedback.

Acronyms and abbreviations

FC

Fibre Channel

FCoE

Fibre Channel over Ethernet

PSP

HP ProLiant Support Pack

SPP

HP Service Pack for ProLiant

VCEM

Virtual Connect Enterprise Manager