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HPE Virtual Connect SE 40Gb F8 Module for HPE Synergy Release Notes

Abstract

This document describes new features, installation and update instructions, and known limitations for HPE Virtual Connect SE 40Gb F8 Module for HPE Synergy. This release is intended for administrators that configure, manage, and troubleshoot compute modules interconnects and storage systems on HPE Synergy using HPE Synergy Composer powered by HPE OneView.

Part Number: 878745-009
Published: February 2019
Edition: 1

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Contents

Release description and installation/update instructions

Interconnect module firmware installation and update instructions

For installation and update instructions, refer to documents available at **http://www.hpe.com/info/synergy-docs**.

Changes delivered in HPE Virtual Connect SE 40Gb F8 Module for HPE Synergy

Changes delivered in firmware version 1.4.0.1003

The firmware version 1.4.0.1003 is designed to:

- Add support for Interconnect Resource Utilization (health, temperature, CPU, memory).
- Add support for configuration of LACP load-balancing hashing algorithm modes.
- Add support for sFlow traffic monitoring.
- Add support for PVLANS (Primary, Isolated, or Community).
- Add support for FC port statistics in both Fabric and Direct Attach modes.
- Add support for HPE Synergy 4820C 10/20/25Gb CNA.
- Resolve an issue where a temporary or transient network outage could occur on Ethernet, FCoE, and/or FC networks across both interconnect modules when a compute module configured for Virtual Port LAG (VPLAG) on s-channels is rebooted resulting in intermittent flapping of the VPLAG.
- Resolve an issue where a VC SE 40Gb Module loses the configured IPv4 Gateway address after it has been reset.
- Resolve an issue where a VC SE 40Gb Module fails to receive IPv4 address from externally managed DHCP Server that does not accept DHCP Request from a nonzero IP address.
- Resolve an issue where transient I2C read errors may cause unexpected link toggles on Interconnect Link (L1 - L4) ports.
- Resolve an issue with five frame setup with large number of 4x10 breakout cables where subordinate VC SE 40Gb module would intermittently reboot when synchronizing statistics with the active VC SE 40Gb module.
- Resolve an issue where a Compute Module encounters a persistent Boot from SAN (BfS) disconnect during an orchestrated disruptive VC SE 40Gb Module Firmware upgrade.
- Resolve an issue where IPv6 global address changes after every VC SE 40Gb module reboot because the DHCP Unique Identifier (DUID) was not used.
- Resolve an issue where VC SE 40Gb modules go to Configuration Error after firmware update.
- Resolve an issue where a high rate of ARP/RARP traffic on the network may cause intermittent LACP timeouts resulting in traffic loss.
- Include all changes from firmware version 1.3.3.1002.

IMPORTANT: The firmware version 1.4.0.1003 requires HPE OneView 4.20 to be installed.

Changes delivered in firmware version 1.3.3.1002

The firmware version 1.3.3.1002 is designed to:

- Resolve an issue where the Subordinate VC SE 40Gb F8 Module in a Redundant configuration loses HPE OneView credentials resulting in firmware activation failure or VC modules in Configuration Error state.
- Resolve an issue where s-channels in a VPLAG may be missing after a subordinate VC module reboot or a firmware upgrade to 1.3.1.1003 or earlier.
- Resolve an issue where network connectivity is lost on one or more networks when configured with LAGs on downlink Server ports and more than 92 configured uplink/profile connections using the same network or network set on a 4 or 5 frame HPE Synergy environment are deployed.
- Resolve an issue where uplink ports in an LACP LAG or MLAG on the Subordinate VC SE 40Gb F8 Module may be set to Blocking instead of Forwarding even though they are up in the LAG or MLAG resulting in traffic loss.
- Include all changes from firmware version 1.3.1.1003.

IMPORTANT: The firmware version 1.3.3.1002 requires HPE OneView 4.10 to be installed.

Changes delivered in firmware version 1.3.1.1003

The firmware version 1.3.1.1003 is designed to:

- Enable switch ASIC internal parity error detection and correction.
- Resolve an issue where networking scanning software sends an invalid SNMP OID string over the management network causing an Ethernet and/or FCoE traffic outage.
- Resolves an issue where `Invalid interconnect link topology` critical alert is incorrectly displayed intermittently on HPE OneView or HPE Synergy Composer.

  Customer Advisory: **a00057638**
- Include all changes from firmware version 1.3.0.1005.

IMPORTANT:

- The firmware version 1.3.1.1003 requires HPE OneView 4.10 to be installed.
- For customers with HPE OneView 4.10 installed, Hewlett Packard Enterprise strongly recommends application of this firmware upgrade at the earliest opportunity.

Changes delivered in firmware version 1.3.0.1005

The firmware version 1.3.0.1005 is designed to:

- Add support for Federal Information Processing Standard (FIPS)/ Commercial National Security Algorithm (CNSA) cryptography mode.
- Add support for downlink ports to be used as a network analyzer port with port monitoring.
- Add support for utilization sampling on s-channel interfaces.
- Add support for 16 active ports in a link aggregation group (LAG)/ multichassis link aggregation group (MLAG).
- Add support for local port affinity on LAGs on s-channels.

- Resolve an issue when downlink ports in **`admin down`** state show no reason code.
- Resolve an issue when transient I2C read errors cause unexpected link toggles on uplink ports.
- Resolve an issue when Preboot eXecution Environment (PXE) boot fails on LAGs on s-channel (VPLAG).
- Resolve an issue where password file corruption causes Virtual Connect (VC) module continuous reboot.
- Resolve an issue when one or more downlink ports connected to HPE Synergy 10Gb Interconnect Link Module remain unlinked after a Virtual Connect SE 40 Gb Module reboot.
- Resolve an issue where an existing pause flood condition before a VC SE 40Gb Module reboot or reset does not clear after the module reboot leaving the downlink port in a blocking state.
- Include all changes from firmware version 1.2.2.1001 .

IMPORTANT:

- The firmware version 1.3.0.1005 requires HPE OneView 4.10 to be installed.
- Firmware version 1.3.0.1005 does not contain changes/fixes from 1.2.3.1001. Customers updating from 1.2.3.1001 must update to 1.3.1.1003 or later.

Changes delivered in firmware version 1.2.3.1001

The firmware version 1.2.3.1001 is designed to:

- Enable switch ASIC internal parity error detection and correction.
- Include all changes from firmware version 1.2.2.1001.

IMPORTANT: For customers with HPE OneView 4.00 installed, Hewlett Packard Enterprise strongly recommends application of this firmware upgrade at the earliest opportunity.

Changes delivered in firmware version 1.2.2.1001

The firmware version 1.2.2.1001 is designed to:

- Resolve an issue where MAC learning fails after a **Master** > **Subordinate** interconnect module role failover.
- Resolve an issue where a 2-3 minute outage occurs on s-channels (downlinks) with LACP enabled when performing a logical enclosure grow from a single frame Redundant configuration to two frame Highly Available configuration.
- Resolve an issue where compute modules configured for FC/iSCSI/FCoE Boot from SAN may experience a read-only file system after a firmware update or interconnect module reset.
- Resolve an issue where SNMP version 1 or version 2 functionality was disabled in version 1.2.0.1005 and prevented users from receiving SNMP traps.
- Resolve an issue where a temporary or transient network outage could occur on Ethernet, FCoE, and/or FC networks on a single interconnect module.

- Resolve an issue where rebooting or resetting of a Virtual Connect SE 40Gb Module causes intermittent direct-attach Fiber Channel (FC) IO failures for FC connections on the other Virtual Connect module in a Highly Available configuration.
- Include all changes from firmware version 1.2.0.1005.

Changes delivered in firmware version 1.2.0.1005

The firmware version 1.2.0.1005 is designed to:

- Add support for SmartLink detection.*
- Add support for Pause Flood Detection on Uplinks.*
- Add support for Pause Flood Detection and Protection on Downlinks.*
- Add support for LAGs on downlink Server ports (S-channel).*
- Add support for SNMPv3 monitoring, traps, and informs.*
- Add support for configuration of IPv4, IPv6, or both in the LLDP payload for uplink, downlink, and tagged LLDP frames.*
- Add support for Storm Control.*
- Add support for IGMP Snooping on a specific VLAN.*
- Add support for Private Network.*
- Add support for local port affinity on MLAG uplink ports.
- Add support for Multi-Active Detection shutdown where all interfaces will be disabled on one VC SE Module when both stacking links are down.
- Add support for the following transceivers:

  453154-B21 HP BladeSystem c-Class Virtual Connect 1G SFP RJ-45 Transceiver

  453151-B21 HP BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver

  JG661A HP X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver

  JG709A HP X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver

  JG325B HP X140 40G QSFP+ MPO SR4 Transceiver

  JD092B HP X130 10G SFP+ LC SR Transceiver

  JD094B HP X130 10G SFP+ LC LR Transceiver

  JG234A HP X130 10G SFP+ LC ER 40km Transceiver
- Resolve a small possibility that a server profile connection configured for Fibre Channel (FC) network will not completely recover resulting in loss of access to storage LUN after a reset of VC SE module.
- Resolve the temporary loss of connectivity that may occur on the subordinate module due to LACP timeout when using short timers when a master module in the stacking domain is reset.
- Resolve some Fibre Channel aborts that may be detected in host operating system during Fibre Channel multipath failback.
- Resolve the intermittent connectivity issue across the stacking links when MAC tables between the 2 ICMs are out of sync after a MAC address move.
- Resolve the issue showing stacking link health status disconnected and uplink status unknown only encountered in a 5-frame logical enclosure with five or more QSFP-SFP adapters or 4X10 breakout

cables where interconnect modules will go to a Configuration Error State and Stacking Links will show disconnected after HPE OneView attempts to configure the modules.

- Resolve the issue of rare condition that the server would experience some loss VLAN connectivity after its removal and insertion.
- Resolve the issue of MLAG ports remain on standby after 1 of 2 upstream switch is rebooted.
- Resolve the intermittent loss of egress traffic through VC SE Module when Cisco Top of Rack Switch vPC peer-link is shut down when Master VC SE module is connected to secondary-role Cisco vPC switch.
- Resolve the issue that occurs when 40Gb uplink port(s) are configured to “40Gb/s” instead of the default “Auto” and the uplink port(s) would not re-establish the link after VC SE Module is powered off/on, reset, or removed/reinserted causing the port(s) to be down/unlinked.
- Include all changes from firmware version 1.1.1.1003.

***** Requires HPE OneView 4.00 as a prerequisite.

Changes delivered in firmware version 1.1.1.1003

The firmware version 1.1.1.1003 is designed to:

- Add support for Direct Attach to 3PAR Storage Arrays (was previously Technical Preview in version 1.1.0.1010).

  Prerequisite: Requires HPE OneView 3.10
- Resolve the issue of a server profile connection error that occurs when a network is removed from a Logical Interconnect but is still configured in a network set associated with a profile.

  Customer Advisory: **a00020798**
- Include all changes from firmware version 1.1.0.1010.

Changes delivered in firmware version 1.1.0.1010

The firmware version 1.1.0.1010 is designed to:

- Add support for VLAN 1 on an uplink set.*
- Add support for network loop protection and proper status reporting on per profile connection bases.*
- Add support for retrieval and display of the optical transceiver digital diagnostics parameters.*
- Add support for retrieval and display of the historical statistics and static counters for the ICM cluster links.*
- Provide ability to disable auto-negotiation on 40Gb QSFP ports with CR4-based DAC cables for interoperability with Nexus 9K switches.*
- Resolve the issue where broadcast, unknown unicast, and multicast traffic will fail after master module is reset and the uplinks in an MLAG are toggled.
- Resolve the issue where host logins are unequally distributed after adding ports to uplink set.
- Resolve the issue where master and subordinate ICMs MAC address tables in CLI are not in sync.
- Resolve the issue where servers do not relogin to fabric after multiple FC uplinks in an uplink set are disabled.

- Resolve the issue that prevented the use of N_Port ID Virtualization (NPIV) from virtual machines over fabric attach networks.
- Resolve the issue where LLDP “Configured Management IPv4 Address” may intermittently have null value after interconnect module reset.
- Remove support for HPE B-series 16Gb SFP+ Short Wave Transceiver (QK724A).
- Include all changes from firmware version 1.0.2.1006.

***** Requires HPE OneView 3.10 as a prerequisite.

Changes delivered in firmware version 1.0.2.1006

The firmware version 1.0.2.1006 is designed to:

- Add support for Boot from SAN (BfS) for VMware ESXi 5.5 and 6.0.

  Customer Notice: **c05388813**
- Resolve the issue where Dual 10GBASE-T QSFP+ 30m RJ-45 transceiver does not link when connected to FLM using Synergy Image Streamer.
- Resolve the issue where QSFP+ transceivers (BiDi, LR4) were not linking.

  Customer Advisory: **a00005013**
- Resolve the issue with loss of stacking domain heartbeats between master and subordinate interconnects which results in the subordinate interconnect module being reset.

  Customer Advisory: **c05358817**
- Resolve the issue where modifying FC uplink sets in HPE OneView fails to complete after a force re-installation of the firmware on interconnects.
- Resolve the issue where VC SE module gets added with errors in HPE OneView intermittently after appliance reboot or HPE OneView configuration restore.
- Include all changes from firmware version 1.0.1.1004.

Changes delivered in firmware version 1.0.1.1004

The firmware version 1.0.1.1004 is designed to:

- Resolve the issue where a force re-installation of the firmware on interconnects using the Logical Enclosure or Logical Interconnect Orchestrated option may result in a temporary data traffic outage.

  Customer Advisory: **c05358816**
- Resolve the issue with errors in profile connections after a backup is restored from HPE OneView.
- Resolve the issue with a persistent loss of FC or FCoE network traffic if interconnect module is removed, re-inserted or rebooted.

  Customer Advisory: **c05358818**
- Resolve the issue with potential LACP LAG flapping when short timers are used on uplink set.

Issues and suggested actions

The issues and known limitations in this release are described here.

Issues and suggested actions in firmware version 1.4.0.1003

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

  Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set. If the issue still persists, add or remove ports to the FC uplink set.

- The management interface of the VC SE 40Gb F8 Module may not be accessible after removal and reinsertion.

  Suggested Action: Power-cycle the module after the issue has occurred, which will allow the module to recover from the error.

  Customer Advisory: **a00021066**

- After a VC SE 40Gb F8 Module firmware update from 1.1.1.1003 or earlier, uplink ports that are configured to **`40Gb/s`** instead of the default **`Auto`** are not re-establishing the link.

  Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected ports to **`Auto`**, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the ports back to **`40Gb/s`**, and apply the changes.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number `841716-B21` will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the bidirectional transceivers with an HPE 40Gb DAC/AOC cable.

- Interface counters for unknown unicast traffic `rfc1213IfInUnknownProtos`, `InUnknownProtos` and `OutUnknownProtos` are not supported by VC SE 40Gb F8 module and will therefore always show zero.

  Suggested Action: None.

Issues and suggested actions in firmware version 1.3.3.1002

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

  Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set. If the issue still persists, add or remove ports to the FC uplink set.

- The management interface of the VC SE 40Gb F8 Module may not be accessible after removal and reinsertion.

  Suggested Action: Power-cycle the module after the issue has occurred, which will allow the module to recover from the error.

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Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected ports to **Auto**, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the ports back to **40Gb/s**, and apply the changes.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number 841716-B21 will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the bidirectional transceivers with an HPE 40Gb DAC/AOC cable.

Issues and suggested actions in firmware version 1.3.1.1003

- Uplink ports in an LACP LAG or MLAG on the Subordinate VC SE 40Gb F8 Module may be set to Blocking instead of Forwarding even though they are up in the LAG or MLAG resulting in traffic loss.

  Suggested Action: Reset the VC Module or disable/enable the uplink ports in the LAG/MLAG.

- Network connectivity is lost on one or more networks when configured with LAGs on downlink server ports and more than 92 configured uplink/profile connections using the same network or network set on a 4 or 5 frame HPE Synergy environment are deployed.

  Suggested Action: Reconfigure to use fewer than 93 connections.

- S-channels in a VPLAG may be missing after a subordinate VC module reboot or a firmware upgrade to 1.3.1.1003 or earlier.

  Suggested Action: Unassign and reassign the Server Profile.

- Subordinate VC SE 40Gb F8 Module in a Redundant configuration may lose HPE OneView credentials resulting in firmware activation failure or VC modules in Configuration Error state.

  Suggested Action: Reset the affected module and retry operation.

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

  Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set. If the issue still persists, add or remove ports to the FC uplink set.

- Management interface of Virtual Connect SE 40Gb F8 module may not be accessible after removal and reinsertion.

  Suggested Action: Power-cycle the module after the issue has occurred; this will allow the module to recover from the error.

  Customer Advisory: **a00021066**

- After a Virtual Connect SE 40Gb F8 Module firmware update from 1.1.1.1003 or earlier, uplink ports that are configured to **40Gb/s** instead of the default **Auto** are not re-establishing the link.

  Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected ports to **Auto**, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the ports back to **40Gb/s** and apply the changes.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number 841716-B21 will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the bidirectional transceivers with an HPE 40Gb DAC/AOC cable.

Issues and suggested actions in firmware version 1.3.0.1005

- Uplink ports in an LACP LAG or MLAG on the Subordinate VC SE 40Gb F8 Module may be set to Blocking instead of Forwarding even though they are up in the LAG or MLAG resulting in traffic loss.

  Suggested Action: Reset the VC Module or disable/enable the uplink ports in the LAG/MLAG.

- Network connectivity is lost on one or more networks when configured with LAGs on downlink server ports and more than 92 configured uplink/profile connections using the same network or network set on a 4 or 5 frame HPE Synergy environment are deployed.

  Suggested Action: Reconfigure to use fewer than 93 connections.

- S-channels in a VPLAG may be missing after a subordinate VC module reboot or a firmware upgrade to 1.3.1.1003 or earlier.

  Suggested Action: Unassign and reassign the Server Profile.

- Subordinate VC SE 40Gb F8 Module in a Redundant configuration may lose HPE OneView credentials resulting in firmware activation failure or VC modules in Configuration Error state.

  Suggested Action: Reset the affected module and retry operation.

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

  Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set. If the issue still persists, add or remove ports to the FC uplink set.

- HPE OneView or HPE Synergy Composer may report an incorrect `Invalid interconnect link topology` critical alert on ILM Ports that are not in use in certain frame configurations.

  Suggested Action: Rebooting the HPE OneView appliance or inserting/removing the ILM cable into the port reporting the error will clear the incorrect alert.

- Management interface of Virtual Connect SE 40Gb F8 Module may not be accessible after removal and reinsertion.

  Suggested Action: Power-cycle the module after the issue has occurred; this will allow the module to recover from the error.

  Customer Advisory: **a00021066**

- After a Virtual Connect SE 40Gb F8 Module firmware update from 1.1.1.1003 or earlier, uplink ports that are configured to **`40Gb/s`** instead of the default **`Auto`** are not re-establishing the link.

  Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected ports to **`Auto`**, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the ports back to **`40Gb/s`** and apply the changes.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number `841716-B21` will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the bidirectional transceivers with an HPE 40Gb DAC/AOC cable.

Issues and suggested actions in firmware version 1.2.3.1001

- Uplink ports in an LACP LAG or MLAG on the Subordinate VC SE 40Gb F8 Module may be set to Blocking instead of Forwarding even though they are up in the LAG or MLAG resulting in traffic loss.

Suggested Action: Reset the VC Module or disable/enable the uplink ports in the LAG/MLAG.

- Network connectivity is lost on one or more networks when configured with LAGs on downlink server ports and more than 92 configured uplink/profile connections using the same network or network set on a 4 or 5 frame HPE Synergy environment are deployed.

  Suggested Action: Reconfigure to use fewer than 93 connections.

- S-channels in a VPLAG may be missing after a subordinate VC module reboot or a firmware upgrade to 1.3.1.1003 or earlier.

  Suggested Action: None.

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

  Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set. If the issue still persists, add or remove ports to the FC uplink set.

- Management interface of Virtual Connect SE 40Gb F8 Module may not be accessible after removal and reinsertion.

  Suggested Action: Power-cycle the module after the issue has occurred; this will allow the module to recover from the error.

  Customer Advisory: **a00021066**

- After a Virtual Connect SE 40Gb F8 Module firmware update from 1.1.1.1003 or earlier, uplink ports that are configured to **40Gb/s** instead of the default **Auto** are not re-establishing the link.

  Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected ports to **Auto**, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the ports back to **40Gb/s** and apply the changes.

- After a Virtual Connect SE 40Gb F8 Module reboot, in rare cases, one or more downlink ports connected to HPE Synergy 10Gb Interconnect Link Module may remain unlinked.

  Suggested Action: Reset the HPE Synergy 10Gb Interconnect Link Module.

- Downlink ports in a pause flood condition before a Virtual Connect SE 40Gb F8 Module reboot or reset does not clear after the module reboot leaves the downlink port in a blocking state.

  Suggested Action: Perform the HPE OneView action to “reset port protection” to clear this condition before rebooting or resetting a Virtual Connect SE 40Gb Module.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number 841716-B21 will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the bidirectional transceivers with an HPE 40Gb DAC/AOC cable.

Issues and suggested actions in firmware version 1.2.2.1001

- Uplink ports in an LACP LAG or MLAG on the Subordinate VC SE 40Gb F8 Module may be set to Blocking instead of Forwarding even though they are up in the LAG or MLAG resulting in traffic loss.

  Suggested Action: Reset the VC Module or disable/enable the uplink ports in the LAG/MLAG.

- Network connectivity is lost on one or more networks when configured with LAGs on downlink server ports and more than 92 configured uplink/profile connections using the same network or network set on a 4 or 5 frame HPE Synergy environment are deployed.

  Suggested Action: Reconfigure to use fewer than 93 connections.

- S-channels in a VPLAG may be missing after a subordinate VC module reboot or a firmware upgrade to 1.3.1.1003 or earlier.

  Suggested Action: None.

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

  Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set. If the issue still persists, add or remove ports to the FC uplink set.

- Management interface of Virtual Connect SE 40Gb F8 Module may not be accessible after removal and reinsertion.

  Suggested Action: Power-cycle the module after the issue has occurred; this will allow the module to recover from the error.

  Customer Advisory: **a00021066**

- After a Virtual Connect SE 40Gb F8 Module firmware update from 1.1.1.1003 or earlier, uplink ports that are configured to **40Gb/s** instead of the default **Auto** are not re-establishing the link.

  Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected ports to **Auto**, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the ports back to **40Gb/s** and apply the changes.

- After a Virtual Connect SE 40Gb F8 Module reboot, in rare cases, one or more downlink ports connected to HPE Synergy 10Gb Interconnect Link Module may remain unlinked.

  Suggested Action: Reset the HPE Synergy 10Gb Interconnect Link Module.

- Downlink ports in a pause flood condition before a Virtual Connect SE 40Gb F8 Module reboot or reset does not clear after the module reboot leaves the downlink port in a blocking state.

  Suggested Action: Perform the HPE OneView action to “reset port protection” to clear this condition before rebooting or resetting a Virtual Connect SE 40Gb F8 Module.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number 841716-B21 will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the bidirectional transceivers with an HPE 40Gb DAC/AOC cable.

Issues and suggested actions in firmware version 1.2.0.1005

- Uplink ports in an LACP LAG or MLAG on the Subordinate VC SE 40Gb F8 Module may be set to Blocking instead of Forwarding even though they are up in the LAG or MLAG resulting in traffic loss.

  Suggested Action: Reset the VC Module or disable/enable the uplink ports in the LAG/MLAG.

- Network connectivity is lost on one or more networks when configured with LAGs on downlink server ports and more than 92 configured uplink/profile connections using the same network or network set on a 4 or 5 frame HPE Synergy environment are deployed.

  Suggested Action: Reconfigure to use fewer than 93 connections.

- S-channels in a VPLAG may be missing after a subordinate VC module reboot or a firmware upgrade to 1.3.1.1003 or earlier.

  Suggested Action: None.

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set. If the issue still persists, add or remove ports to the FC uplink set.

- Management interface of Virtual Connect SE 40Gb F8 Module may not be accessible after removal and reinsertion.

  Suggested Action: Power-cycle the module after the issue has occurred; this will allow the module to recover from the error.

  Customer Advisory: **a00021066**

- HPE Synergy compute modules with server profiles configured for FCoE/iSCSI/FC Boot from SAN networks may experience a read-only file system following firmware update of Virtual Connect SE 40Gb F8 modules.

  Suggested Action: When performing a firmware update of Virtual Connect SE 40Gb F8 modules with servers configured for boot from SAN, a maintenance window is required. If the file system is marked as **`read only`**, the server must be restarted to recover the file system to **`read/write`** mode.

- After a VC SE 40Gb F8 Module firmware update from 1.1.1.1003 or earlier, uplink ports that are configured to **`40Gb/s`** instead of the default **`Auto`** are not re-establishing the link.

  Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected ports to **`Auto`**, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the ports back to **`40Gb/s`** and apply the changes.

- In rare cases, after a **Master** > **Subordinate** failover, MAC learning may fail causing network outage.

  Suggested Action: Reset the Virtual Connect SE 40Gb Interconnect Module.

- After an update to 1.2.0.1005, SNMP version 1 or version 2 is disabled and cannot be enabled. This event prevents SNMP version 1 or version 2 management tools from collecting data.

  Suggested Action: Utilize SNMP version 3 for SNMP management.

- After a VC SE 40Gb F8 Module reboot, in rare cases, one or more downlink ports connected to HPE Synergy 10Gb Interconnect Link Module may remain unlinked.

  Suggested Action: Reset the HPE Synergy 10Gb Interconnect Link Module.

- A 2-3 minute outage occurs on s-channels (downlinks) with LACP when performing an enclosure HA Grow from 1 to 2 enclosures.

  Suggested Action: Temporarily disable the s-channel LACP before HA Grow operation.

- Downlink ports in a pause flood condition before a Virtual Connect SE 40Gb Module reboot or reset does not clear after the module reboot leaves the downlink port in a blocking state.

  Suggested Action: Perform the HPE OneView action to “reset port protection” to clear this condition before rebooting or resetting a Virtual Connect SE 40Gb F8 Module.

- A temporary or transient network outage could occur on Ethernet, FCoE, and/or FC networks on a single interconnect module in a Redundant HA or Non-Redundant Logical Interconnect Configuration.

  Suggested Action: None.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number `841716-B21` will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the bidirectional transceivers with an HPE 40Gb DAC/AOC cable.

Issues and suggested actions in firmware versions 1.1.0.1010 and 1.1.1.1003

- After a reset of VC SE module, a small possibility exists that a server profile connection configured for Fibre Channel (FC) network will not completely recover resulting in loss of access to storage LUN.

  Suggested Action: Disable and then enable the affected downlink port through the HPE OneView Interconnect page **Edit** action or reboot the affected server.

- Management interface of Virtual Connect SE 40Gb F8 module may not be accessible after removal and reinsertion

  Suggested Action: Power-cycle the module after the issue has occurred; this will allow the module to recover from the error.

  Customer Advisory: **a00021066**

- When compute module FC connections are removed from a fabric, the login distribution will not automatically redistribute.

  Suggested Action: Disable and then enable one of the existing FC uplink ports in the uplink set OR add or remove ports to the FC uplink set.

- When a master module in the stacking domain is reset, a temporary loss of connectivity may occur on the subordinate module due to LACP timeout when using short timers.

  Suggested Action: Configure interfaces to use long LACP timers.

- During Fibre Channel multipath failback, some Fibre Channel aborts may be detected in host operating system.

- After a VC SE Module is powered off/on, reset, or removed/reinserted or after a firmware update, uplink ports configured to “40Gb/s” instead of the default “Auto” will not re-establish the link.

  Suggested Action: In HPE OneView, edit the Logical Interconnect/Uplink Set resource, change the affected port(s) to “Auto”, and apply the changes. Then, edit the Logical Interconnect/Uplink Set resource again, change the port(s) back to “40Gb/s”, and apply the changes.

- A temporary or transient network outage could occur on Ethernet, FCoE, and/or FC networks on a single interconnect module in a Redundant HA or Non-Redundant Logical Interconnect Configuration.

  Suggested Action: None.

- HPE 40Gb QSFP+ Bidirectional Transceiver Part Number `841716-B21` will not function in Q7/Q8 as stacking port and reports Multi-Active Detection (MAD) Stacking failures.

  Suggested Action: Replace the Bidirectional Transceivers with HPE 40Gb DAC/AOC cable.

Issues and suggested actions in firmware version 1.0.2.1006

- When a master module in the stacking domain is reset, a temporary loss of connectivity may occur on the subordinate module due to LACP timeout when using short timers.

  Suggested Action: Configure interfaces to use long LACP timers.

- Adding additional uplink ports to a Fibre Channel uplink set may result in unequally distributed host logins.

Suggested Action: Subsequent host fabric logins will be distributed evenly.

- During Fibre Channel multipath failback, some Fibre Channel aborts may be detected in host operating system.

Issues and suggested actions in firmware version 1.0.1.1004

- Potential issue where Dual 10GBASE-T QSFP+ 30m RJ45 Transceiver does not link when connected to FLM using Image Streamer.

  Suggested Action: Remove Dual 10GBASE-T QSFP and re-insert into ICM.

- Potential issue with loss of stacking domain heartbeats between master and subordinate interconnects which results in the subordinate interconnect module being reset.

  Customer Advisory: **c05358817**

- Issue with QSFP+ transceivers (BiDi, LR4) not linking.

  Customer Advisory: **a00005013**

- Issue where modifying FC uplink sets in HPE OneView fails to complete after a force re-installation of the firmware on interconnects (1.0.1.1004 > 1.0.1.1004).

  Suggested Action: Reboot the Interconnect Module after firmware re-install and then make necessary changes to FC uplink sets.

Issues and suggested actions in firmware version 1.0.0.1014

- Potential issue where Dual 10GBASE-T QSFP+ 30m RJ45 Transceiver does not link when connected to FLM using Image Streamer.

  Suggested Action: Remove Dual 10GBASE-T QSFP and re-insert into ICM.

- Potential issue with loss of stacking domain heartbeats between master and subordinate interconnects which results in the subordinate interconnect module being reset.

  Customer Advisory: **c05358817**

- Issue with QSFP+ transceivers (BiDi, LR4) not linking.

  Customer Advisory: **a00005013**

- Issue where a force re-installation of the firmware on interconnects using the Logical Enclosure or Logical Interconnect Orchestrated option may result in a temporary data traffic outage.

  Customer Advisory: **c05358816**

- Potential issue with errors in profile connections after a backup is restored from HPE OneView.

  Suggested Action: Un-assign and re-assign profile.

- Potential persistent loss of FC or FCoE network traffic if interconnect module is removed, re-inserted or rebooted.

  Customer Advisory: **c05358818**

- Potential LACP LAG flapping when short timers are used on uplink set.

Suggested Action: Configure uplink set to use long LACP timers.

- Issue where modifying FC uplink sets in HPE OneView fails to complete after a force re-installation of the firmware on interconnects (1.0.0.1014 > 1.0.0.1014).

  Suggested Action: Reboot the Interconnect Module after firmware re-install and then make necessary changes to FC uplink sets.

More firmware update information

Refer to the *HPE OneView User Guide for HPE Synergy* available on the **Hewlett Packard Enterprise Information Library** for more information on updating firmware on Logical Interconnects.

The following list indicates disruptive versus nondisruptive firmware updates:

- Update from 1.0.2.1006 to
  - 1.1.0.1010: Nondisruptive
  - 1.1.1.1003: Nondisruptive
  - All other versions: Disruptive
- Update from 1.1.0.1010 to
  - 1.1.1.1003: Nondisruptive
  - All other versions: Disruptive
- Update from 1.1.1.1003 to
  - 1.1.0.1010: Nondisruptive
  - All other versions: Disruptive
- Update from 1.2.0.1005 to
  - 1.2.0.1005: Nondisruptive
  - 1.2.2.1001: Nondisruptive
  - 1.3.0.1005: Nondisruptive
  - All other versions: Disruptive
- Update from 1.2.2.1001 to
  - 1.2.0.1005: Nondisruptive
  - 1.2.2.1001: Nondisruptive
  - 1.3.0.1005: Nondisruptive
  - All other versions: Disruptive
- Update from 1.2.3.1001 to
  - 1.2.3.1001: Nondisruptive
  - 1.3.1.1003: Nondisruptive
  - 1.3.3.1002: Nondisruptive
  - 1.4.0.1003: Nondisruptive
  - All other versions: Disruptive
- Update from 1.3.0.1005 to
  - 1.2.0.1005: Nondisruptive
  - 1.2.2.1001: Nondisruptive

    - 1.3.0.1005: Nondisruptive
    - All other versions: Disruptive
- Update from 1.3.1.1003 to
    - 1.2.3.1001: Nondisruptive
    - 1.3.1.1003: Nondisruptive
    - 1.3.3.1002: Nondisruptive
    - 1.4.0.1003: Nondisruptive
    - All other versions: Disruptive
- Update from 1.3.3.1002 to
    - 1.2.3.1001: Nondisruptive
    - 1.3.1.1003: Nondisruptive
    - 1.3.3.1002: Nondisruptive
    - 1.4.0.1003: Nondisruptive
    - All other versions: Disruptive
- Update from 1.4.0.1003 to
    - 1.4.0.1003: Nondisruptive
    - All other versions: Disruptive

NOTE:

- Beginning with HPE OneView 4.10, orchestrated firmware updates can perform A-side/B-side Reset/reboot of Interconnect modules.
- Nondisruptive firmware update is a warm reboot of the management plane that does not impact the switching or data plane.
- Disruptive firmware update is a cold reboot of the interconnect module that impacts both management and data plane.

For more information on HPE Synergy firmware and driver updates, see the **Best Practices for HPE Synergy Firmware and Driver Updates** guide.

Websites

General websites

Hewlett Packard Enterprise Information Library

www.hpe.com/info/EIL

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix

www.hpe.com/storage/spock

Storage white papers and analyst reports

www.hpe.com/storage/whitepapers

Hewlett Packard Enterprise documentation websites

HPE OneView Global Dashboard documentation

www.hpe.com/info/ovglobaldashboard-docs

HPE OneView documentation

www.hpe.com/info/oneview/docs

HPE Synergy documentation

www.hpe.com/info/synergy-docs

Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:

  http://www.hpe.com/assistance

- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:

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

Information to collect

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

Accessing updates

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

  Hewlett Packard Enterprise Support Center

  www.hpe.com/support/hpesc

  Hewlett Packard Enterprise Support Center: Software downloads

  www.hpe.com/support/downloads

  Software Depot

  www.hpe.com/support/softwaredepot

- To subscribe to eNewsletters and alerts:

  www.hpe.com/support/e-updates

- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:

  www.hpe.com/support/AccessToSupportMaterials

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

Customer self repair

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

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

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

Remote support

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

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

Remote support and Proactive Care information

HPE Get Connected

www.hpe.com/services/getconnected

HPE Proactive Care services

www.hpe.com/services/proactivecare

HPE Proactive Care service: Supported products list

www.hpe.com/services/proactivecaresupportedproducts

HPE Proactive Care advanced service: Supported products list

www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

Proactive Care central

www.hpe.com/services/proactivecarecentral

Proactive Care service activation

www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

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

HPE ProLiant and IA-32 Servers and Options

www.hpe.com/support/ProLiantServers-Warranties

HPE Enterprise and Cloudline Servers

www.hpe.com/support/EnterpriseServers-Warranties

HPE Storage Products

www.hpe.com/support/Storage-Warranties

HPE Networking Products

www.hpe.com/support/Networking-Warranties

Regulatory information

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

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

Additional regulatory information

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

www.hpe.com/info/reach

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

www.hpe.com/info/ecodata

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

www.hpe.com/info/environment

Documentation feedback

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