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Enterprise

# HP Virtual Connect Enterprise Manager 7.5 Update 1 Release Notes

## **Abstract**

This content describes the HP Virtual Connect Enterprise Manager release content and provides information about limitations and major and minor issues with suggested actions.

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## Description

HP Virtual Connect Enterprise Manager (HP VCEM) centralizes network connection management and workload mobility for HP BladeSystem servers that use Virtual Connect (VC) to access local area networks (LANs), storage area networks (SANs), and converged network environments. HP VCEM helps organizations increase productivity, respond faster to workload and infrastructure changes, and reduce operating costs.

## Update recommendation

HP Virtual Connect Enterprise Manager version 7.5.1 includes new enhancements and features. Updating to HP Virtual Connect Enterprise Manager version 7.5.1 is **recommended**.

## Supersede information

HP Virtual Connect Enterprise Manager version 7.5.1 supersedes HP Virtual Connect Enterprise Manager version 7.5.

## Operating system and devices

Supported operating systems and devices are listed in the *HP Insight Management Support Matrix* available at [Hewlett Packard Enterprise Information Library](#).

## Enhancements

HP Virtual Connect Enterprise Manager version 7.5.1 adds the following new feature:

- Supports Virtual Connect firmware 4.45 and 4.50 with the exception of SR-IOV management. Set the “simplified” SR-IOV mode on all profiles in VC 4.4x or later domains before bringing the domain into the domain group. This change will allocate virtual functions to the third physical function of SR-IOV capable network interface cards (NICs) and requires that the server is powered off. Changing SR-IOV settings can cause the host OS to re-order PCI NICs.

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**NOTE:** VC may have additional features that are not supported by HP VCEM. For more information, see the *HP Virtual Connect Enterprise Manager User Guide* available at [Hewlett Packard Enterprise Information Library](#).

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## Fixes

The primary objective of this release is to support the latest HP hardware platforms, support the latest revisions of already supported operating systems and hypervisors, and to fix software issues. This release offers improvement in the following areas:

- Cannot input the Profile Name at Server Profiles tab with Internet Explorer 10 or 11.
- **Multiple Networks selection** screen is showing networks with selection after `show all` command.
- The color filter does not work properly when **none** is selected in **Network Selection** screen.
- A network disappears when it is selected with any filter activated.
- When creating a profile using a **NAG** filter, the associated networks are not displayed.
- When **Force same VLAN mappings as Shared Uplink Set** is used in **Multiple Networks** screen, the **select all** does not work more than once.
- Filters (color/label/vlanId/Network) are not working more than once when selecting **Force same VLAN mappings as Shared Uplink Set** in **Multiple Network selection** screen.

- Error message is not user-friendly for empty **System Contact** in job description.
- HP VCEM is allowing a VCDG with the same fabric in different modules.

## Prerequisites

- HP VCEM 7.5.1 can be installed as an update to the existing 7.5 installation. For more information, see the *HP Insight Management Support Matrix* and the *HP Virtual Connect Enterprise Manager User Guide* available at [Hewlett Packard Enterprise Information Library](#). HP VCEM 7.5.1 can be downloaded at [HP Virtual Connect Enterprise Manager Software](#).
- Hardware, firmware, and software requirements for this release are listed in the *HP Insight Management Support Matrix* available at [Hewlett Packard Enterprise Information Library](#).
- Installation and upgrade prerequisites are documented in the *HP Virtual Connect Enterprise Manager User Guide* available at [Hewlett Packard Enterprise Information Library](#).
- To download the latest Virtual Connect firmware, see the HP Virtual Connect Firmware & Upgrades web page at [Service Pack for ProLiant \(SPP\)](#).

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- ① **IMPORTANT:** HP VCEM 7.5.1 requires that the HP Virtual Connect Manager and associated firmware on all managed VC Domains must be version 3.3x or later. For more information about supported Virtual Connect firmware, see the *HP Virtual Connect Enterprise Manager User Guide* available at [Hewlett Packard Enterprise Information Library](#).
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## Installation instructions

Installation instructions are documented in the *HP Virtual Connect Enterprise Manager User Guide* available at [Hewlett Packard Enterprise Information Library](#).

## Issues and workarounds

### VCEMCLI reports

#### ERROR-PXE-BOOT-ALLOWED-WHEN-PROFILE-BOOTMODE-IS-UEFI

VCEMCLI reports this error when attempting to edit PXE settings on a server profile with UEFI disabled.

#### **Suggested action**

Use the VCEM web UI to manage PXE settings, or use VCEMCLI version 7.3 or earlier to manage PXE settings.

### Virtual Connect configuration not supported in Google Chrome browser

When a user puts a domain in maintenance mode via browser using Google Chrome or click domain IP address in **VC Domains** tab, the Virtual Connect login page is displayed. However, as Virtual Connect does not support access through Google Chrome, the login page displays the warning that this browser version is not supported.

#### **Suggested action**

Use a supported browser to login to Virtual Connect.

### VC Domain configuration mismatch after FW upgrade from 4.20 to 4.40

Upgrading a VC domain that is running on FW 4.20 and has QoS (Quality of Service) configured to FW 4.40 or newer results in a configuration mismatch on VCEM.

#### **Suggested action**

Open maintenance mode or edit a profile that is assigned to the domain to resynchronize the domains in configuration mismatch status.

## Unable to set untagged VLAN on connection with multiple networks

The VCEM web UI fails to save the **untagged** option for VLANs when editing a profile connection using multiple networks. This affects you if you are using VCEM 7.3.2 or if you are using Internet Explorer 9 with VCEM 7.5.1

### **Suggested action**

Use the VCEM CLI command `add server-port-map with -untagged` as described in the Virtual Connect Enterprise Manager command line interface user guide available at [Hewlett Packard Enterprise Information Library](#).

## Duplicated networks are shown on multiple networks window

While selecting networks on multiple networks window, duplicated networks are shown on right side of the window, when the VC domain is configured with a large number of networks (over 1000 networks).

### **Suggested action**

Find the duplicated network and move it to left side of the window.

## Cannot set Enet connect with -pxe disabled via CLI

The Enet connection is set to -pxe enabled. It automatically sets -PXEBootOrder value to **Auto** instead of **Null** and VCEM returns the following error message: `The PXE Boot Order cannot be set unless the Ethernet connection PXE is Enabled and the profile Boot Mode is UEFI. [5099]`.

## Deleting a large number of assigned profiles results in a timeout

If you are trying to delete 1000 or more assigned profiles, the deletion can either take a long time to complete or can result in a timeout. Hewlett Packard Enterprise recommends that you only delete less than 1000 assigned profiles at one time.

## Performance degradation using IE 9 with a large number of networks

When using browsers IE 9 with a large number of networks, the single and multiple network selection windows on the create or edit server profile screen may have a degraded performance, especially after some extended amounts of usage. Hewlett Packard Enterprise recommends that you use Google Chrome with a large number of networks.

## Performing a VC Domain Maintenance operation on an uplink port that is configured for port monitoring

An uplink port that is configured for port monitoring can unintentionally be associated to an Ethernet network or Shared Uplink Set when performing a VC Domain Maintenance operation. The double association will also occur on the other VC Domains in the VC Domain Group after maintenance is completed. This situation may cause conflicting data streams over the uplink port.

### **Suggested action**

Perform a VC Domain Maintenance operation again to remove the conflict by editing the Ethernet network or Shared Uplink Set to not use the conflicting uplink port.

## Adding VC Domains with configured network access groups

Adding VC Domains with network access groups configured and with server profiles using any network access group other than the default group can cause the operation to fail with an error message similar to the following:

Error during Add VC Domain [ch00087vc] to VC Domain Group. Details: The operation cannot be performed because it refers to a network in the profile that does not belong to the NAG associated with the profile.

### Suggested action

1. Take note of each server profile network access group configuration.
2. Access VCM and update each server profile network access group configuration from “user-defined” to “default”.
3. Add the VC Domain to the target VC Domain Group.
4. Update the server profile’s network access group configuration with the original configuration.

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**NOTE:** It will be necessary to repeat steps 1 (one) and 3 (three) for each server profile that is using the user-defined network access groups.

**NOTE:**

All networks in use by the server profile must be part of default network access group configuration.

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## Updating VC firmware versions in a VC Domain to be compatible with VC 3.70 or later

With release 7.1.1 or later, VC firmware versions 3.70 or later are not compatible with VC firmware versions prior to 3.3x.

### Suggested actions

Virtual Connect firmware compatibility mode allows administrators to update each VC Domain in a VC Domain Group incrementally, rather than requiring that all VC Domains be updated at the same time. VC Domain Group firmware mode is the firmware level in which a VC Domain Group operates.

**NOTE:** For GUI screens and buttons to perform the VC firmware updates described in the following procedures, see “Updating VC firmware” in the Virtual Connect Enterprise Manager user guide at [Hewlett Packard Enterprise Information Library](#).

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To update a VC Domain to VC 3.70 or later from VC 3.18 or earlier:

1. Use VC Domain Maintenance to perform a firmware update to an intermediary version that is supported by the new firmware *first*. For example, if the current VC Domain Group firmware mode is 3.15 and the new firmware is 3.70, update the firmware on all VC Domains from the VC Domain Group to 3.5x or 3.6x.
2. After the firmware for all VC Domains has been updated to 3.5x or 3.6x, upgrade the VC Domain Group firmware mode to 3.5x.

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**NOTE:** VC 3.5x and VC 3.6x share the 3.5x VC Domain Group firmware mode. There is no separate 3.6x VC Domain Group firmware mode.

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3. From the VC Domains page in the VCEM GUI, select all VC Domains (which have just been updated to 3.5x or 3.6x) from the VC Domain Group and the **VC Domain Firmware Update...** GUI button. Then use the VCSU to update the VC firmware for each of the selected VC Domains.
4. Optional—Update the VC Domain Group firmware mode to 3.7x *after* the VC firmware on all the VC Domains in the VC Domain Group has been updated to VC firmware 3.70.

The following steps are an alternate procedure to update from VC firmware 3.15-3.18 to VC firmware 3.70, 4.01, and 4.1x or later:

1. Remove the entire VC Domain Group from VCEM.
2. Update the VC firmware for all VC Domains directly to 3.70 or later .
3. Recreate the VC Domain Group using the updated VC Domains.

See the Virtual Connect Enterprise Manager user guide at [Hewlett Packard Enterprise Information Library](#) for information on removing VC Domain Groups, updating VC firmware and creating VC Domain Groups.

If you are using HP Matrix Operating Environment infrastructure orchestration to manage logical servers attached to server profiles, some additional steps may be necessary after removing and recreating the VC Domain Group such as refreshing logical server resources and changing the logical server associations from the old VC Domain Group to the new VC Domain Group. For more information, see the matrix operating environment logical server management user guide at [Hewlett Packard Enterprise Information Library](#).

## Incompatible VC Domain Group status after upgrade to VCEM 7.1.1 or later with unsupported VC FW mode and FW version

If you upgrade to VCEM 7.1.1 or later from a VCEM configuration that has an unsupported FW mode or VC FW that is not version 3.3x or later, the VC Domain Group and VC Domain will display the **Incompatible Firmware** status and the following error message will appear:

```
Virtual Connect Enterprise Manager (VCEM) detected there is one or more VC Domain Group running on an unsupported firmware mode during the upgrade. VCEM has marked all affected VC Domain Groups and VC domain(s) with an 'incompatible firmware' status. VCEM will be unable to perform server profile operations that belong to these marked VC domains. To resolve this, perform the following steps in VCEM:
```

1. For each VC domain marked with an 'incompatible firmware' status:
  - a. Enable the VC domain Maintenance operation.
  - b. Upgrade the managed VC domain to (at least) the minimum VCEM supported VC firmware version.
  - c. Complete the VC domain Maintenance operation.
2. For each VC Domain Group marked with an 'incompatible firmware' status: Upgrade the VC Domain Group firmware mode to (at least) the minimum supported by VCEM.

In order to update the VC domain firmware version, you must check the Insight Management Support Matrix for VCEM supported VC firmware versions.

## While creating a server profile VCEM warns that there are duplicated networks for a specific Ethernet Network Connection

When you use a VC Domain that contains a large number of Ethernet networks (close to 8192) and while creating a server profile with many connections (close to 128) VCEM may incorrectly display the same network in the networks selection dialog for an Ethernet connection.

### **Suggested action**

Edit the profile Ethernet connection and remove the duplicated networks from the selected networks table. You can use the column order feature to find which network is duplicated inside an Ethernet network connection.

## VC 4.3x considers FCoE networks as in-use

VCEM limits up to 1000 networks to be used by server profiles associated with a specific VC Domain. Virtual Connect 4.3x firmware incorrectly considers all FCoE networks as in-use, even when it is not being used by any server profile.

## Using boot configuration with Internet Explorer browser in compatibility view

The compatibility view of the Internet Explorer does not allow VCM to support the iSCSI or any boot configuration web GUI.

### **Suggested action**

Use Internet Explorer without the compatibility view enabled to make changes to the boot configuration.

## Multiple networks table is misaligned

While moving all networks from right table to left table on multiple networks screen using, `Force same VLAN mapping as Shared Uplink Set` option, the networks in the left table become misaligned.

### **Suggested action**

Close the multiple networks window and edit the Ethernet connection again.

## Multiple networks window can present problems in sorting by network name after canceling several operations with networks

Multiple networks window does not sort by network name after several other network operations are performed and canceled. The fix when implemented can cause high risk of performance in multiple network window.

### **Suggested action**

Close the multiple networks window and edit the Ethernet connection again.

## Checking environment requirements with Insight Management Advisor for VCEM upgrades

During an VCEM upgrade if the installed CMS has problems connecting to the database where Insight Management products are installed, the installation displays an incorrect popup informing you that the VC firmware version is not supported by VCEM. This situation occurs during the upgrade requirements check. If you click **OK** in the dialog box, Insight Management Advisor does not check if the VCEM upgrade requirements are met.

### **Suggested action**

Run Insight Management Advisor manually from the first Insight Management installation screen (option 1). If Insight Management Advisor notifies you that the environment is meeting the upgrade requirements, proceed with the upgrade and click **OK** in the incompatible firmware dialog box.

## Propagating configurations with private networks and FCoE networks exceeding a total of 128 in VC 4.0x and 4.1x

If the number of private networks in conjunction with the number of FCoE networks is greater than 128 and VCEM tries to propagate that configuration to other VC Domains from the same VC Domain Group, VCM returns an error message similar to the following:

```
The configuration exceeded the maximum number of supported private networks (128 networks).
```

### **Suggested action**

To resolve this, you must change the configuration to reduce the number of FCoE and private networks to a maximum of 128.

## Unexpected results from non-blocked (-nb) commands

Do not submit multiple non-blocked `vcemcli` commands for a single profile. Later commands may overwrite the changes made by earlier commands. For example, do not submit a series of non-blocked commands to add network connections to a given profile. Allow each command to complete before submitting the next one. By following this sequence, each command will build on the results of the previous commands. This is because of the environmental state that is saved with each job that is submitted.

## Assigning a profile to a server with two connections containing duplicate networks and VLANS on the same physical NIC

VCEM with VC firmware 3.60 or earlier does not report an error or warning message when assigning a profile to a server with two connections (Ethernet or iSCSI) that contain duplicate networks and VLANS on the same physical NIC.

VC 3.70 or later displays the appropriate assign profile error message.

VCEM 7.1.1 or later includes the following improvements to help you detect the connection status and ensure that you do not have a misconfiguration:

- VC Manager connection status is now included in the VCEM profile.
- VC Manager profile status is now displayed in the VCEM GUI.

## Support and other resources

### For more information

For more information about HP VCEM, see the following documents at [\*\*Hewlett Packard Enterprise Information Library\*\*](#).

- HP Virtual Connect Enterprise Manager User Guide
- HP Virtual Connect Enterprise Manager Command Line Interface User Guide
- HP Insight Management Getting Started Guide
- HP Insight Management Support Matrix

Information about HP Virtual Connect and HP Virtual Connect Manager is available at [\*\*Hewlett Packard Enterprise Information Library\*\*](#).

For more information about HPE Systems Insight Manager, see the following documents at [\*\*Hewlett Packard Enterprise Information Library\*\*](#).

- HP Systems Insight Manager Release Notes
- HP Systems Insight Manager User Guide
- HP Systems Insight Manager Installation and Configuration Guide for Microsoft Windows

For more information about HP BladeSystem Integrated Manager, see HP BladeSystem Integrated Manager in HP Systems Insight Manager available at [\*\*HPE System Insights Manager Homepage\*\*](#).

## How to contact Hewlett Packard Enterprise

Use the following methods to contact HPE technical support:

- In the United States, see the Customer Service / Contact Hewlett Packard Enterprise United States website for contact options  
[\*\*Contact HPE Support Worldwide\*\*](#)
- In the United States, contact Hewlett Packard Enterprise on [\*\*Contact HPE Support Worldwide\*\*](#). This service is available 24 hours a day, 7 days a week. For continuous quality improvement, conversations might be recorded or monitored.
- In other locations, see the Contact Hewlett Packard Enterprise Worldwide website for contact options:  
[\*\*Contact HPE Support Worldwide\*\*](#)

## Security bulletin and alert policy for non-HPE owned software components

Open source software (such as OpenSSL) or third-party software (such as Java) are sometimes included in HPE products. HPE discloses that the non-HPE owned software components listed in

the Insight Management end user license agreement (EULA) are included with Insight Management. The EULA is included with the Insight Management Installer on Insight Management DVD #1.

HPE addresses security bulletins for the software components listed in the EULA with the same level of support afforded HPE products. HPE is committed to reducing security defects and helping you mitigate the risks associated with security defects when they do occur.

When a security defect is found, HP has a well defined process that culminates with the publication of a security bulletin. The security bulletin provides you with a high level description of the problem and explains how to mitigate the security defect.

## Subscription service

HPE recommends that you register your product at the Subscriber's Choice for Business website:

### **Find a Partner**

## HPE services

HPE offers the following software support services.

- **Software Technical Support and Update Service**—VCEM includes one year of 24 x 7 Hewlett Packard Enterprise Software Technical Support and Update Service. This service provides access to Hewlett Packard Enterprise technical resources for assistance in resolving software implementation or operations problems. The service also provides access to software updates and reference manuals either in electronic form or on physical media as they are made available from Hewlett Packard Enterprise. (Customers who purchase an electronic license to use are eligible for electronic updates only.) With this service, customers benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information about this service, see <http://www.hpe.com/services/insight>.
- **Registration for Software Technical Support and Update Service**—There are two methods for registering:
  - If you received a license entitlement certificate, automated registration for this service will take place upon online redemption of the license certificate/key.
  - If the license information you received for your product instructs you to register for Software Technical Support and Update Service, follow the instructions so that you will be eligible for telephone support and product updates.

## How to use your software technical support and update service

As Hewlett Packard Enterprise releases updates to software, the latest versions of the software and documentation are made available to you. The Software Updates and Licensing portal gives you access to software, documentation and license updates for products on your Hewlett Packard Enterprise software support agreement.

You can access this portal from the Hewlett Packard Enterprise Support Center:

### **Hewlett Packard Enterprise Support Center**

After creating your profile and linking your support agreements to your profile, see the Software Updates and Licensing portal at <http://www.hpe.com/info/hpesoftwareupdatesupport> to obtain software, documentation, and license updates.

## Hewlett Packard Enterprise authorized resellers

For the name of the nearest Hewlett Packard Enterprise authorized reseller, see the following sources:

- In the United States, see the Hewlett Packard Enterprise U.S. service locator website:  
**[Find a Partner](#)**
- In other locations, see the Contact Hewlett Packard Enterprise worldwide website:  
**[Contact HPE Support Worldwide](#)**

## Related information

### Documents

The following documents provide related information:

- HP Virtual Connect Enterprise Manager user guide available at: **[Hewlett Packard Enterprise Information Library](#)**
- HP Virtual Connect Enterprise Manager release notes available at: **[Hewlett Packard Enterprise Information Library](#)**

For more information about HP Virtual Connect Manager, see:

- **[BladeSystem c-Class Solution Overview](#)**
- HP Virtual Connect for c-Class BladeSystem user guide (See the Installing tab of the HP BladeSystem Technical Resources website at **<http://www.hpe.com/info/ bladesystem/ documentation>**.)
- HP Virtual Connect Manager Release Notes (See the Installing tab of the HP BladeSystem Technical Resources website at **<http://www.hpe.com/info/ bladesystem/ documentation>**.)

### Websites

Website	Link
Hewlett Packard Enterprise Information Library	<b><u><a href="http://www.hpe.com/info/enterprise/docs">www.hpe.com/info/enterprise/docs</a></u></b>
Hewlett Packard Enterprise Support Center	<b><u><a href="http://www.hpe.com/support/hpesc">www.hpe.com/support/hpesc</a></u></b>
Contact Hewlett Packard Enterprise Worldwide	<b><u><a href="http://www.hpe.com/assistance">www.hpe.com/assistance</a></u></b>
Subscription Service/Support Alerts	<b><u><a href="http://www.hpe.com/support/e-updates">www.hpe.com/support/e-updates</a></u></b>
Software Depot	<b><u><a href="http://www.hpe.com/support/softwaredepot">www.hpe.com/support/softwaredepot</a></u></b>
Customer Self Repair	<b><u><a href="http://www.hpe.com/support/selfrepair">www.hpe.com/support/selfrepair</a></u></b>
Insight Remote Support	<b><u><a href="http://www.hpe.com/info/insightremotesupport/docs">www.hpe.com/info/insightremotesupport/docs</a></u></b>
Serviceguard Solutions for HP-UX	<b><u><a href="http://www.hpe.com/info/hpux-serviceguard-docs">www.hpe.com/info/hpux-serviceguard-docs</a></u></b>
Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix	<b><u><a href="http://www.hpe.com/storage/spock">www.hpe.com/storage/spock</a></u></b>
Storage white papers and analyst reports	<b><u><a href="http://www.hpe.com/storage/whitepapers">www.hpe.com/storage/whitepapers</a></u></b>

## Software Availability in Native Languages

HP Virtual Connect Enterprise Manager is localized in English and Japanese.

## Documentation feedback

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