HP Virtual Connect Enterprise Manager
Release Notes

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Version

HP Virtual Connect Enterprise Manager (VCEM) 1.40

Summary of changes

VCEM 1.40 introduces support for new hardware and functionality delivered with VC firmware 2.30, which includes:

- Support for the HP Virtual Connect 8Gb 20-Port Fibre Channel module for BladeSystem c-Class.
- Updated SNMP events for Virtual Connect.
- Introduces new VCEM 131,072 address ranges each for MAC and World Wide Name (WWN) assignments, for a total of 262,144 supported network addresses per VCEM console.
- Removes support for Virtual Connect firmware 1.2x and 1.3x. The minimum supported Virtual Connect firmware version is 2.00.

NOTE: VCEM 1.40 update requires an existing VCEM 1.20, 1.30, or 1.32 installation. VCEM also requires at least 200 MB of disk space available in the destination folder. If you have an earlier version installed or if a VCEM is not installed, perform the following steps:

1. Download the HP Insight Control software 3.10 ISO image from the Web at **http://www.hp.com/go/insight**.
2. Burn the ISO image to physical DVD media or load the ISO image.
3. Follow the on-screen instructions.

Downloading VCEM 1.40 from the Web

1. Download the HP Virtual Connect Enterprise Manager software 1.40 at **http://www.hp.com/go/vcem** to a directory on your hard drive.
2. Run the downloaded file and follow the on-screen instructions.

Supported hardware platforms, operating system software, and languages

Item supported	Hardware platform, operating system software, or language
Hardware platforms	HP 1/10G Virtual Connect Ethernet Module for c-Class BladeSystem HP 1/10Gb-F Virtual Connect Ethernet Module for c-Class BladeSystem HP 10/10Gb-F Virtual Connect Ethernet Mode HP 4Gb Virtual Connect Fibre Channel Module for c-Class BladeSystem HP BladeSystem c3000 Enclosure with Onboard Administrator 2.30 or later HP BladeSystem c3000 Tower Enclosure with Onboard Administrator 2.30 or later HP BladeSystem c7000 Enclosure with Onboard Administrator 2.30 or later HP ProLiant xw460c Blade Workstation All HP ProLiant and Integrity c-Class server blades
Operating system software	Microsoft Windows Server 2003 Standard Edition SP2 (32-bit only) Microsoft Windows Server 2003 Enterprise Edition SP2 (32-bit only) Microsoft Windows Server 2003 R2 Standard Edition SP2 (32-bit only) Microsoft Windows Server 2003 R2 Enterprise Edition SP2 (32-bit only) Microsoft Windows Server 2008 Standard Edition (32-bit only) Microsoft Windows Server 2008 Enterprise Edition (32-bit only)
Operating system languages	English Japanese German French Italian Spanish

IMPORTANT: For compatibility and correct VCEM operation, the HP Virtual Connect Manager and associated firmware on all managed domains must be versions 2.0x, 2.1x, and 2.3x. For more information about supported Virtual Connect firmware, see **http://www.hp.com/go/vcem**.

NOTE: VCEM is localized in English and Japanese, but supports English, Japanese, German, French, Italian, and Spanish Windows operating systems.

Supported Virtual Connect Manager firmware

VCEM supports Virtual Connect Manager firmware versions 2.0x, 2.1x, and 2.3x. For more information about supported Virtual Connect firmware, see **http://www.hp.com/go/vcem**.

Minimal versions of supported platforms

Table 1-1 Minimal versions

Product	Version
Virtual Connect Manager	2.0x, 2.1x, and 2.3x
Onboard Administrator	2.30
Integrated Lights-Out	1.6
Server ROM	(see supported server matrix for Virtual Connect)
ProLiant PSP / SNMP agents	8.1
ProLiant PSP / WMI providers	2.2
HP Systems Insight Manager	5.3

Installation notes

IMPORTANT: HP recommends that you install and upgrade VCEM using the HP Insight Software DVDs. If you manually upgrade HP SIM 5.2 to 5.3, you must also upgrade VCEM 1.10, 1.10 SP1, 1.20, or 1.30. Otherwise, HP SIM might use VCEM license seats without your consent.

HP recommends the following steps be taken to ensure a successful VCEM installation.

- To reduce the time required to perform a successful VCEM installation, before starting the installation, complete the VCEM checklist available in the *HP Virtual Connect Enterprise Manager User Guide*.

- For information about installation procedures and performing post-installation configuration tasks, see the "Installing and Configuring VCEM" chapter of the *HP Virtual Connect Enterprise Manager User Guide*.

- VCEM 1.40 leverages HP SIM 5.3 technologies such as discovery, event handling, and the HP SIM database. These technologies are installed alongside HP Insight Software. There are many references to HP SIM technologies in the VCEM product, such as database backup and restore, the HP SIM desktop shortcut, and the event handling mechanism.

- Back up each VC Domain that is to be managed by VCEM.

- Ensure that the Central Management Server (CMS) is correctly registered in the DNS environment. Make sure HP SIM can correctly discover the CMS. You may experience an unauthorized error when trying to access the VCEM home page if the CMS is incorrectly registered in the DNS.

  To resolve this issue, register the CMS in DNS or add the CMS hostname to the Windows hosts file.

NOTE: Do not install VCEM into an enclosure managed by VCEM. The overall VCEM operation can be disrupted if a VCEM server blade is moved. One single instance of VCEM is required to manage VC Domains. Communication between multiple VCEMs and one VC Domain causes a connection failure.

Uninstall notes

To perform a VCEM uninstall:

1. Before uninstalling, you must remove all the VC Domain Groups from the VCEM user interface. The VCEM uninstall fails if there are any VC Domains still managed by VCEM.
2. Select **Start→All Programs→Insight Control Management→Uninstall Insight Control Management**.
3. Confirm the uninstallation.

    - After uninstalling HP Insight Control Management, restart the system by selecting **Yes**.

    - After uninstalling HP Insight Control Management, some files might not be removed. Manually removing such files might cause an `access denied` error message. If this occurs, reboot the server where VCEM is installed, and then remove the files.

4. The uninstall operation does not remove the following VCEM folder.

    C:\Program Files\HP\Virtual Connect Enterprise Manager\

    The VCEM folder does not cause any system damage or prevent VCEM from future reinstallation.

5. Uninstall logs are located in `%systemdrive%`\HPIC\logs\`<timestamp>` folder. The `%systemdrive%` is the drive where the operating system is installed (such as C:) and the `<timestamp>` identifies the system clock timestamp.

Limitations and known issues

General

- License key fields are case-sensitive.
- In HP SIM, if you are logged with an account created in HP SIM with the "operator" template and attempt to execute VCEM Profile Failover by Hostname, or VCEM Profile Failover by IP address custom tools, the following error message appears: `SSH public key authentication failed for user`.

    To resolve this issue, log in to HP SIM with an account created with Administrator rights and execute the VCEM Profile Failover by Hostname or VCEM Profile Failover by IP address custom tools again.

VC Domain Groups and VC Domain Management

- VCEM cannot manage a VC Domain that configures a Shared Uplink Set or Ethernet Network with the following:

    - Connection mode set to Failover

    - More than one port with Port Role value set to Primary or no Port Role set to Primary

    To resolve the issue, access Virtual Connect Manager and set one port to be the primary.

- VCEM cannot manage a VC Domain that configures an Ethernet Uplink Port with a Speed/Duplex value as `Disabled`. VCEM always replicates the VC Domain configuration with Speed/Duplex set to `Auto`. However, VCEM does not prevent you from adding such VC Domain to a VC Domain Group.
- VCEM fails to add a VC Domain that configures an Ethernet Uplink Port with a Speed/Duplex value as `Disabled` to the same VC Domain Group to which it previously belonged.

    To resolve the issue, perform the following steps after the Add to VC Domain Group job failure:

1. Go to the Virtual Connect Manager user interface.
2. Select values for the Speed/Duplex of Ethernet Uplink Ports according to VC Domain Group Ethernet Uplink Port values.
3. Go to VCEM and re-add the VC Domain to the same VC Domain Group.

- VCEM cannot create a VC Domain Group or add a VC Domain to a VC Domain Group when a backup VC module is discovered or if a failover of a VC module occurred in a redundancy environment. The following error message appears:

```
The VC Domain [<VC Domain Name>] cannot be managed by VCEM. A possible
cause is that the current state of the VC Domain is unknown. Verify HP
Systems Insight Manager (HP SIM) is referencing the primary VC Module. If
not, run HP SIM discovery to update the reference.
```

To resolve this issue, perform a rediscovery on the Onboard Administrator IP address associated with the VC Module and perform the VCEM operation again.

MAC, WWN, and Serial Number Management

You must verify that VC Domains within a network have unique MAC addresses, WWN addresses, and Serial Numbers. Adding a VC Domain to a VC Domain Group or creating a VC Domain Group does not verify that the profiles in a VC Domain use MAC or WWN addresses allocated in the VCEM external address pool. You can overwrite the external addresses to become in use status. To prevent external addresses from use in VCEM, add the addresses to the exclusion addresses pool. If you plan to add the VC Domain back to VCEM, then you must also remove these addresses from the exclusion addresses pool.

Jobs

▲ System performance can slow down on the Jobs page when the number of jobs exceeds 20,000. To maximize system performance, delete old jobs before the total number reaches this limit.

Server power management

▲ VCEM might not correctly present the power state of a server when the server is powered off using VC Manager.

Server profile operations

- VCEM profile operations for Integrity server blades requires VC Domain versions 2.0x or later. VCEM does not support profile operations with 'Boot from SAN' configuration for VC Domain 1.24. VC Domain 1.24 only supports profile operations for Integrity server blades with local boot storage.

- To create profiles for Integrity server blades that boot from SAN, you must manually configure the SAN boot entries in the blade server EFI console.

- If the server profile has Flex-10 connections enabled, and server blade NICs (onboard or mezzanine card) are connected to HP 10/10Gb-F Virtual Connect Ethernet Module, Virtual Connect requires you to power off the server blade to perform any server profile operation.

Failover

- When a Failover is started, VCEM does not check for server physical connections compatibility. The profile will be assigned to a compatible spare but physical connections are not considered for this compatibility.

- When a Failover is executed, HP SIM may not update the servers information. To resolve this issue, run a manual HP SIM discovery of the affected systems.

Adding or removing VC modules to VC Domain Group Configuration

To add or remove VC modules to all VC Domains managed by a VC Domain Group:

1. Go to VCEM, click the **VC Domain Groups** tab, select the desired VC Domain Group where you want to add or remove VC modules, and then click **Delete**. For more information, see the *HP Virtual Connect Enterprise Manager User Guide*.
2. For each VC Domain released from the VC Domain Group, insert or remove VC modules in the corresponding enclosure, and perform the necessary domain, network, and storage configuration changes in the Virtual Connect Manager user interface.

   Before VC module removal, remove the VC module uplink ports from all existing Network or Shared Uplink settings from VC Domain configuration.

   For VC module removal, from the VC Manager user interface, click **Hardware Overview→Enclosure_Name→Interconnect Bays**, select the VC module at the bay you want to remove, then click **Remove from Domain**.
3. Return to VCEM, click the VC Domain Groups tab, and click **New**. For more information about creating a VC Domain Group, see the *HP Virtual Connect Enterprise Manager User Guide*. At step 1 of the creating a VC Domain Group procedure, select the VC Domains to add to the new VC Domain Group. Wait until the job operation is completed. As a result, the new VC Domain Group created contains an updated configuration reflecting the new VC modules.

> **NOTE:** Existing profiles cannot see new FC SAN connections added using these steps. For more information, see the *HP Virtual Connect Enterprise Manager User Guide*.

Profile operations fail, and the error message "An invalid boot LUN was entered. Check the storage arrays for the proper LUN number" appears

VCEM requires the boot target LUN configuration and server profiles to be either a 3-digit decimal between 0-255, or a 16-digit hexadecimal between 0 and FFFFFFFFFFFFFFFF.

This message appears whenever a profile move or failover operation is performed with a server profile that has a boot LUN that fails to does not comply with the conditions stated here. This situation can happen when a server profile is created in Virtual Connect Manager, and then you try to manage it with VCEM.

To resolve this issue:
1. Go to the VCEM profiles tab.
2. Select the server profile that is presenting the problem.
3. Click **Edit**.
4. In the boot target configurations table, change all the target LUN fields to be within the allowed ranges (either a 3-digit decimal between 0-255, or a 16-digit hexadecimal between 0 and FFFFFFFFFFFFFFFF).
5. Click **OK**.
6. Monitor the job progress until it is complete.

After the operation completes, you can perform move and failover operations would be server profile.

Moving Ethernet networks (VLANs tagged) from one shared uplink to another

1. Click the **VC Domains** tab, and select a VC Domain.
2. Click **VC Domain Maintenance**, and enable VC Domain Maintenance by clicking **Make changes via VC Domain**.
3. In Virtual Connect Manager user interface, delete the desired shared uplink sets or delete desired Ethernet networks (VLANs tagged) from the shared uplink sets.
4. Go back to VCEM and complete VC Domain Maintenance by clicking Complete **VC Domain Maintenance**.
5. Repeat steps 1 and 2.
6. In Virtual Connect Manager user interface, create Ethernet networks (VLANs tagged) to any shared uplinks set.
7. Go back to VCEM, and complete VC Domain Maintenance by clicking **VC Domain Maintenance**.

Error popup appears when you select HP pre-defined ranges during remove VC Domain from Group or delete VC Domain Group operations

Using the web browser in Japanese language causes an error popup to appear when you select a HP Pre-defined range to be used by a VC Domain that is being removed from a VC Domain Group.

To resolve the issue:

1. Clear the **Use Pre-defined range** checkbox.
2. Enter the From and To values for the desired range in the text boxes.
3. Click **OK**. Wait until the process completes.

For more information

For more information about VCEM:

- http://www.hp.com/go/vcem
- *HP Insight Software Quick Setup Poster*
- *HP Insight Software Support Matrix*
- *HP Virtual Connect Enterprise Manager User Guide*

For more information about HP Virtual Connect and HP Virtual Connect Manager:

- http://www.hp.com/go/bladesystem
- *HP Virtual Connect for c-Class BladeSystem User Guide*
- *HP Virtual Connect Command Line Interface User Guide*
- HP Virtual Connect for c-Class BladeSystem Release Notes can be found at http://www.hp.com/go/bladesystem/documentation

For more information about HP Systems Insight Manager 5.3:

- http://www.hp.com/go/hpsim
- *HP Systems Insight Manager 5.3 Installation and Configuration Guide for Microsoft Windows*
- *HP Systems Insight Manager 5.3 Release Notes*
- *HP Systems Insight Manager 5.3 User Guide*
- *HP Systems Insight Manager 5.3 Readme*

For more information about HP BladeSystem Integrated Manager:

- http://h18013.www1.hp.com/products/servers/management/bsme/index.html
- *HP BladeSystem Integrated Manager in HP Systems Insight Manager 5.3 User Guide*
- *HP BladeSystem c-Class Solution Overview*