

Emulex® CIM Provider Package for OneConnect® Adapters Release Notes

Versions: ESXi 5.5 Version 11.2.1153.20
ESXi 6.0 Version 11.2.1153.20
ESXi 6.5 Version 11.2.1153.20

Date: January 30, 2017

Purpose and Contact Information

These release notes describe the new features, resolved issues, known issues, and technical tips associated with this release of the Emulex® Common Information Model (CIM) Provider Package for OneConnect® adapters.

For the latest product documentation, go to www.broadcom.com. If you have questions or require additional information, contact an authorized Broadcom technical support representative at ccx-tech.support@broadcom.com or request assistance online at <https://oemsupportportal.emulex.com/web2tech/ccx.html>.

New Features

- Beginning with software release 11.2, LightPulse® adapters and OneConnect adapters have independent software kits. Before updating earlier drivers and applications to the software in release 11.2, refer to the *Emulex Software Kit Migration User Guide* for special instructions and considerations for using the 11.2 software kits for LightPulse and OneConnect adapters.
- The VMware ESXi 5.5 operating system is supported, but no new features were added.
- The VMware ESXi 5.1 operating system is no longer supported.

Resolved Issues

There are no resolved issues in this release.

Known Issues

1. Known issues related to updating firmware.

Firmware version 11.2 includes new features that require new flash regions to support them. Firmware versions earlier than 10.0.803.37 did not have the ability to configure the flash regions to support these new features.

- If you are updating from a firmware version earlier than 10.0.727.90, use one of these methods to update the firmware to 11.2:
 - Use the ISO flash tool.
 - Use the most recently released version of the CIM Provider utility. You must perform the firmware update procedure twice to ensure that the flash regions are properly configured. You must reboot the system after each firmware update.

- If you are updating from firmware version 10.0.803.37 or later, use one of these methods to update the firmware:
 - Use the ISO flash tool.
 - Use the most recently released version of the CIM Provider utility and reboot the system after the firmware update. (It is not necessary to perform the firmware update process twice.)

Note: After you have updated the firmware, you must not downgrade the firmware to a version earlier than 10.0.803.37.

2. Enabling single root I/O virtualization (SR-IOV) and then rebooting does not enable SR-IOV.

Workaround

Refer to the most recent *Emulex Drivers for VMware ESXi for OneConnect Adapters User Manual* (available on the Broadcom website) for instructions on enabling SR-IOV.

3. Storage classes (maps) are not refreshed immediately during registered state change notification (RSCN) events.

For RSCN events, after a zoning or unzoning operation, the storage volumes remain unreflected in the CIM Provider.

Workaround

Wait until the idle timeout threshold is reached. The map refreshes automatically.

4. If an adapter with network interface card (NIC) Partitioning (NPar) has a speed that is forced to 1 Gb/s, FCoE must not be specified as a storage protocol.

Workaround

Specify NIC or Internet Small Computer Systems Interface (iSCSI) as a storage protocol.

5. Concurrent firmware upgrades performed on the same ESXi host might not be fully copied.

If a firmware upgrade is attempted using the hypertext transfer protocol (http) protocol, the firmware file is copied to the `/filesystem` of the ESXi system. This file is deleted after the firmware upgrade is complete. Therefore, if concurrent firmware upgrades are performed on the same ESXi host, due to space constraints, the firmware file might not be copied fully, and the firmware upgrades might fail with error 40197, which indicates that the firmware image is corrupt.

Workaround

None.

6. The current version of the CIM Provider does not work with earlier drivers. If an incompatible version of the CIM Provider and the Fibre Channel over Ethernet (FCoE) driver is installed, the CIM Provider is unable to enumerate the FCoE ports.

Workaround

Use the FCoE driver version 10.6.x or higher.

7. Running a full core dump on an ESXi host fails.

MILI fails to allocate memory for a segment that contains ARM logs.

Workaround

Use the Emulex OneCapture™ device driver utility to perform full core dumps. For more information, refer to the *OneCapture for OneConnect Adapters User Manual*.

8. **Converged Network Adapters (CNA) adapters are not detected by the CIM Provider, libelxflash, OneCapture, and OneKat applications with the 10.0.727.28 (or prior) version of the I/O Vendor Package (IOVP)-certified NIC driver in VMware ESXi 5.5.**

Workaround

Upgrade the NIC driver to version 10.4.x or later.

9. **On ESXi 5.5 GA systems, an “out of memory” message is displayed in the syslog when the provider is kept loaded and queried for an extended period of time.**

Workaround

Update ESXi 5.5 U1 to ESXi 5.5 U2.

10. **The Emulex CIM Provider might crash on ESXi due to an issue in the VMware sfcb version, which does a double release of the CMPIArray object.**

Workaround

Use the VMware patch with the fix in 51p08 and 55p07.

11. **Anonymous tests may fail from the CIM Provider Acceptance Tests (CIM PAT) plug-in from workbench.**

Workaround

None.

Technical Tips

1. **When the CIM Provider is installed to run on a guest operating system using the virtual function media access control (MAC) address, the CIM active management commands fail with incorrect error messages.**

This behavior is expected because this functionality is not supported for devices discovered on the guest operating system.

2. **The Emulex CIM Provider displays the ESXi version supported by the kit along with the kit version.**
3. **Providers are not being unloaded due to continuous Host Hardware Redundant Array of Inexpensive Disks (RAID) Controller (HHRC) CIM client polling. As a result, providers are loading that create unnecessary processing. To reduce this, increase the HHRC polling interval using the following command:**

```
esxcfg-advcfg -s 2000 /UserVars/CIMvmw_hhrcwrapperProviderPollingInterval
```

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