EMULEX®

CIM Provider Package 10.4 Release Notes

Versions: ESXi 5.1 Version 10.4.252.0
ESXi 5.5 Version 10.4.252.0
ESXi 6.0 Version 10.4.252.0

Date: March 2015

Purpose and Contact Information

These release notes describe the new features, resolved issues, known issues, and technical tips associated with this Emulex® CIM Provider Package release.

If you have questions or require additional information, contact an authorized Emulex technical support representative at tech.support@emulex.com, 800-854-7112 (US/Canada toll free), +1 714-885-3402 (US/International), or +44 1189-772929 (Europe, Middle East, and Africa).

New Features

1. **Added support for VMware ESXi 6.0 (vSphere 2015).**

2. **Added support for the OCe14102-NT and OCe14102-UT 10GBASE-T adapters.**

3. **The OCe10100-series adapters are no longer supported.**

Resolved Issues

1. When changing the link speed for the LPe16000-series, LPe15000-series, LPe12000-series, and LPe1200-series adapters using the OneCommand® Manager Application, the information that is displayed on the Adapter Parameters tab is no longer delayed.

2. Made changes to enhance performance.

Known Issues

1. **Known Issues related to updating firmware.**

    Firmware version 10.4.xxx.x 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 10.4.xxx.x:
        ○ Use the ISO flash tool.
        ○ Use the released 10.4 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.

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

- If you are updating from firmware version 10.0.803.37 or later, use one of these methods to update the firmware to 10.4.xxx.x:
  - Use the ISO flash tool.
  - Use the released 10.4 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. **You cannot change to the RDMA over Converged Ethernet (RoCE) profile when single root I/O virtualization (SR-IOV) is enabled in the current profile.**

   Workaround

   Disable the SR-IOV state before changing to the RoCE profile.

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

   Workaround

   Specify NIC or iSCSI as a storage protocol.

4. **Concurrent firmware upgrades performed on the same ESXi host may not be fully copied.**

   If a firmware upgrade is attempted using the 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 may not be copied fully, and the firmware upgrades may fail with an error # 40197, which indicates the firmware image is corrupt.

   Workaround

   None.

5. **The current version of the CIM Provider does not work with earlier applications. If an incompatible version of CIM Provider and FC/FCoE driver is installed, the CIM Provider is not able to enumerate the FC/FCoE ports.**

   Workaround

   Use the FC/FCoE driver version 10.4.x or higher.

6. **On FC HBAs, running loop back tests with infinite option is not supported.**

   Workaround

   None.

7. **For ESXi 5.1 systems, a firmware update with an inbox driver results in a MAL or MILI error.**

   Workaround

   Update to the latest out–of–box driver.

8. **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, see the *OneCapture User Manual*.

9. **CNA adapters will not be detected by the CIM Provider, libelxflash, OneCapture, and OneKat applications with the 10.0.727.28 (or prior) version of the IOVP-certified NIC driver in VMware ESXi 5.5.**

   Workaround

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

10. **On ESXi 5.5 U1 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.

11. **Insert Failures are seen in system logs while invoking call methods.**

    Workaround

    Minimize the log entry level.

12. **When a CIMMOM restarts after enumeration, or when a host is added as a CIMMOM client, a SIGSEGV error can occasionally occur.**

    Workaround

    None.

13. **Some of the "must enumerate" classes occasionally return a NO instance.**

    Workaround

    Re-run the query.

14. **Enable/Disable boot code on LPe16000-series adapters is not supported in the CIM Provider.**

    Workaround

    Use the Boot BIOS utility.

15. **During a stress test on ESXi 5.1 and ESXi 5.5, UCNA and FC "Serious provider ID/Provider process mismatch" messages are displayed in the system logs.**

    Workaround

    None.

Technical Tips

1. **On the ESXi 5.0 GA (Build No. 469512) platform while performing association traversal, if an associated class is not provided in a query, it results in a socket error. This is an ESX issue.**

   VMware has corrected these issues. Update ESXi 5.0 to ESXi 5.1.

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

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

3. **The Emulex CIM Provider displays the ESXi version supported by the kit along with the kit version.**

4. **For ESXi hosts, the Emulex OneCapture utility should be used to retrieve dumps instead of using OneCommand Manager remote dump.**

   The OneCapture utility works with the following NIC driver versions:

OneCapture version	ESX 5.5 elxnet version
< 10.4.248.0	10.2.445.0 IOPV
>=10.4.248.0 and 10.4.160.10	10.0.727.28 IOPV
	10.2.445.0 IOPV

   For more information on the OneCapture utility, see the *OneCapture User Manual*.

5. **Providers are not being unloaded due to continuous 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
   ```

6. **When using providers for an extended time on ESXi 5.1 GA or ESXi 5.5 GA, memory leaks can occur. To avoid this, use ESXi 5.1 U3 or ESXi 5.5 U2 instead.**

Note: References to OCe11100 series products also apply to OCe11100R series products.