

Oracle® Hardware Management Pack 2.2.x Release Notes

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Contents

Documentation and Feedback	5
About This Documentation	5
Change History	6
Oracle Hardware Management Pack Release Notes	7
Software Release Information	7
Installation Notes and Issues	11
Known Issues and Notes for Software Release 2.2.x	16
Using Oracle Hardware Management Pack With SPARC M5-32 Server	34

Using This Documentation

This section describes product information, documentation and feedback, and a document change history.

- [“Documentation and Feedback” on page 5](#)
- [“About This Documentation” on page 5](#)
- [“Change History” on page 6](#)

Documentation and Feedback

The following documentation is available related to the Oracle Hardware Management Pack.

Documentation	Link
All Oracle products	http://www.oracle.com/documentation
Oracle Hardware Management Pack	http://www.oracle.com/goto/OHMP/docs
Oracle ILOM 3.0	http://www.oracle.com/goto/ILOM/docs
Oracle ILOM 3.1	

Provide feedback on this documentation at:

<http://www.oracle.com/goto/docfeedback>

About This Documentation

This documentation is available in both PDF and HTML. The information is presented in topic-based format (similar to online help) and therefore does not include chapters, appendixes, or section numbering.

You can get a PDF that includes all information about a particular topic subject (such as hardware installation or product notes) by clicking the PDF button in the upper left corner of the page.

Change History

The following changes have been made to the documentation set.

- September 2010, initial publication.
- January 2011, Installation Guide and Management Agent User's Guide updated.
- July 2011, updated document URLs.
- September 2011, updated to match software version 2.2. Changes to graphic installer documented.
- November 2011, updated to integrate information related to installing Oracle Solaris OS 11 and information related to install prerequisites.
- January 2012, updated to reflect changes to the installer for Emulex and QLogic support, new package names and describe software package dependencies.
- March 2012, updated functionality for fwupdate, ilomconfig, raidconfig. Added new tool, ubiosconfig.
- April 2012, added 2.2.1, 2.2.2, and 2.2.3 updates.
- September 2012, added 2.2.3a updates
- February 2013, added 2.2.5 updates
- April 2013, added 2.2.6 updates
- July 2013, added 2.2.7 updates
- October 2013, added 2.2.8 updates

Oracle Hardware Management Pack Release Notes

Oracle Hardware Management Pack provides components such as management agents and configuration tools to help you deploy, configure, and manage your Oracle servers.

These release notes contain information for the 2.2.x releases of Oracle Hardware Management Pack.

This document contains the following sections:

- “Software Release Information” on page 7
- “Installation Notes and Issues” on page 11
- “Known Issues and Notes for Software Release 2.2.x” on page 16
- “Using Oracle Hardware Management Pack With SPARC M5–32 Server” on page 34

Software Release Information

This section contains the following information:

- “Releases 2.2.1, 2.2.2, and 2.2.3” on page 7
- “Updates in Oracle Hardware Management Pack 2.2.x” on page 8
- “Finding Documentation for Hardware Management Pack” on page 11
- “Supported Servers and Operating Systems” on page 11

Releases 2.2.1, 2.2.2, and 2.2.3

Oracle Management Pack releases 2.2.1, 2.2.2, and 2.2.3 contain the same features.

- Release 2.2.1 is available only on the Oracle System Assistant image that is embedded on a USB device installed in some systems. For the platforms supported with Release 2.2.1, see “Platform Support Added” on page 8.
- Releases 2.2.2 and 2.2.3 are available from My Oracle Support for all supported systems.
My Oracle Support: <http://support.oracle.com>

Updates in Oracle Hardware Management Pack 2.2.x

This section describes the changes between Oracle Hardware Management Pack 2.2 and 2.2.x releases, including 2.2.1, 2.2.2, 2.2.3, 2.2.5, 2.2.6, 2.2.7, and 2.2.8.

- “New Features” on page 8
- “Platform Support Added” on page 8
- “Issues Fixed” on page 9

New Features

Refer to the *Oracle Hardware Management Pack User's Guide* for more information on these features.

The following is a list of new features in Oracle Hardware Management Pack 2.2.1/2.2.2/2.2.3:

- `fwupdate`: Support has been added for updating Fiber Channel cards from Qlogic and Emulex.
- `ubiosconfig`: New tool to update BIOS settings on UEFI-based systems.

The following is a list of new features in Oracle Hardware Management Pack 2.2.5:

- `itpconfig`: New tool to enable forwarding of ILOM traps to the host.
- `hwmgmtcli`: `open_problems` subsystem was added.

Note – For more details on these features, refer to the documentation at:

<http://www.oracle.com/pls/topic/lookup?ctx=ohmp>

Platform Support Added

This section describes new platform support for each 2.2.x release. The full product support matrix is available at:

<http://www.oracle.com/goto/system-management>

New Platforms Supported in 2.2.1

The following platform support has been added for release 2.2.1:

- Sun Fire X4170 M3 server
- Sun Fire X4270 M3 server
- Sun Fire X3-2B (X6270 M3) server module

New Platforms Supported in 2.2.2

The following platform support has been added for release 2.2.2:

- Sun Netra SPARC T4-1 server
- Sun Netra SPARC T4-2 server
- Sun Netra SPARC T4-1B server module
- Sun Netra X4270 M3 server
- Sun Netra (X3-2B) X6270 M3 server module

New Platforms Supported in 2.2.3

Firmware for the following host bus adapters can be updated using `fwupdate` with release 2.2.3:

- SGX-SAS6-INT-Z
- SGX-SAS6-EXT-Z
- SGX-SAS6-REM-Z
- SGX-SAS6-EM-Z

New Platforms Supported in 2.2.5 and Later

For platforms supported for version 2.2.5 and later, refer to the support matrix at:

<http://www.oracle.com/goto/system-management>

Issues Fixed

The issues in the following list were previously documented in the Release Notes.

Fixed in the 2.2.8 release:

- 17563392: DHCP Discover When Enabling Local Host-to-ILOM Interconnect on a Linux System

Fixed in the 2.2.6 release:

- 7164682: Importing a Configuration Ignores Values for Read/Write Cache on RAID Volumes
- 15776348, 15785250, 16203403: Dependencies for Installing Oracle Hardware Management Pack 2.2.x on an Oracle VM 3.0.2, 3.1.1, 3.2.1 System for Version 2.2.5 (For more information, see *Oracle Hardware Management Pack Installation Guide*).
- 15820262: Installer GUI Not Supported for Windows 2012
- 16035437 and 16268348: ILOM Update on SPARC Systems Using `fwupdate` Must Be Run From a Remote System
- 16284952: `raidconfig` Reports Incorrect RAID Support for SPARC T5 Servers

Fixed in the 2.2.5a release:

- 7191812: biosconfig Is Not Supported on Sun Server X3 Series UEFI Platforms

Fixed in the 2.2.5 release:

- 7184299: Segmentation Fault (coredump) When Running raidconfig Commands
- 7164577: hwmgmtd Might Generate System Log Messages

Fixed in the 2.2.4 release:

- 7164568: Error Message Specifies Incorrect Option
- 7167479: biosconfig Fails Intermittently on Oracle VM 3.1.1 System
- 7171666: SGX-SAS6-R-REM-Z Is Not Detected On SLES 11 SP2 System
- 7181992: Oracle Solaris 11 x86 hmp-tools-biosconfig Package Split Into Driver and Application Packages

Fixed in the 2.2.3a release:

- 7184555: biosconfig.exe error “StartDriver: StartService failure! Error = 577”
- 7181669: raidconfig segmentation fault on X4270m2 with Niwot-INT

Fixed in the 2.2.3 release:

- 7003873: sunHwMonFruManufacturer and sunHwMonFruDesc Are Empty for Most Components on SPARC T3-Series Servers
- 7143025: Power Cycle Required After ILOM and BIOS Firmware Update
- 7003873: sunHwMonFruManufacturer and sunHwMonFruDesc Are Empty for Most Components on SPARC T3-Series Servers

Fixed in 2.2.1/2.2.2 release:

- 7069378: raidconfig Showing Incorrect Device Name for RAID Volume
- 7086105: An Extra Controller Displays After Creating RAID on a Oracle Solaris OS Server
- 7092223: hwmgmtd Memory Usage Grows Over Time
- 6811841: Oracle Solaris Hardware Management Pack - sunHwTrapThresholdValue and sunHwTrapSensorValue are set to 0.0
- 6985009: Automated Power Cycle Is Not Supported for Oracle Solaris and Windows Systems
- 7003819: Service Processor Serial Number is Missing From sunHwMonSPSerialNumber.0 for SPARC T3-Series Servers

Finding Documentation for Hardware Management Pack

Complete documentation for Hardware Management Pack can be found on the web at:

<http://www.oracle.com/pls/topic/lookup?ctx=ohmp>

- *Oracle Hardware Management Pack 2.2 Installation Guide* (E25304) - provides an overview of the different Hardware Management Pack components and instructions on installing Hardware Management Pack.
- *Oracle Server Management Agents 2.2 User's Guide* (E25305) - provides details about installing and configuring the Sun Server Management Agents, which enable you to manage your Sun servers at the operating system level.
- *Oracle Server CLI Tools 2.2 User's Guide* (E25306) - provides details about installing and configuring the Sun Server CLI Tools and IPMItool, which provide utilities to configure and manage your Sun servers.

Supported Servers and Operating Systems

All Management Pack components might not be available on all servers and all supported operating systems for each server. In addition, some Management Pack components such as `raidconfig`, `fwupdate` and Storage Viewer might not support all storage and hardware options on all servers and operating systems.

For details, click the View Support Matrices link on the HMP tab at the following site:

<http://www.oracle.com/goto/system-management>

Note – The `fwupdate` tool for release 2.2.1 and 2.2.2 does not support the update of SGX-SAS6-INT-Z, SGX-SAS6-EXT-Z, SGX-SAS6-REM-Z, or SGX-SAS6-EM-Z host bus adapter firmware. Use the LSI utilities to update the firmware for these HBAs.

Installation Notes and Issues

Note – Oracle hardware has moved to a new bug (change tracking) system. In this document, the bugs from the earlier system are designated with "CR (change request)". The bugs from the new bug system do not have the "CR" designation.

The following items affect Oracle Hardware Management Pack installation.

Issue	Workaround
“Disable Host-to-ILOM Interconnect Before Installing Oracle HMP on Windows Systems (16521844)” on page 12	No
“Installing in Oracle Solaris Zones” on page 13	No
“Installing Oracle HMP on Oracle Solaris 11 System With Zones (16970964)” on page 13	No
“Installation Path Has Changed” on page 14	No
“Do Not Use <code>install.bin -uninstall</code> Command to Uninstall Oracle Hardware Management Pack (15777347)” on page 14	Yes
“Hardware Management Pack Installer GUI Requires <code>libXtst.i686</code> for an Oracle Linux 6.1 System (15766013)” on page 14	Yes
“Install <code>glibc.i686</code> for Oracle Enterprise Linux 6 Before Running the Installer (15715967)” on page 15	No
“Red Hat Installation Dependencies” on page 15	Yes
“Install Path Issues” on page 15	No
“Software Has Not Passed Windows Logo Testing Warning Message During Hardware Management Pack Installation (15666328)” on page 15	No
“Windows Service Pack Update Required” on page 16	No
“ILOM 3.0 and Windows Server 2003 R2” on page 16	No

Disable Host-to-ILOM Interconnect Before Installing Oracle HMP on Windows Systems (16521844)

When installing Oracle HMP on a Windows system, the Host-to-ILOM Interconnect needs to be disabled from Oracle ILOM prior to the Host-to-ILOM installation or the configuration might fail.

To Disable the Host Interconnect

1. Log into the Oracle ILOM web interface.
2. Select ILOM Administration -> Connectivity .
3. In the Local Host Interconnect section, select the Configure link .
4. In the Configure USB Ethernet Parameters dialog:
 - a. Select True in the Host Managed field.
 - b. Deselect Enabled in the State field.

Note – If State is set to enabled, you will need to deselect the Host Managed box, deselect the Enabled box and then select Host Manage True box.

Installing in Oracle Solaris Zones

The Oracle Hardware Management Pack (HMP) packages will install in all Oracle Solaris zones. For specific instructions for installing Oracle Solaris 11 with zones, see:

However, the Oracle HMP utilities in both Oracle Solaris 10 and Solaris 11 have limited or no functionality in non-global zones.

The following Oracle HMP utilities will be non-functional in the non-global zone:

- biosconfig
- fwupdate
- raidconfig
- hwmgmtcli
- hwmgmtd
- Management Agent

These utilities will only function if the LAN interface is used in the non-global zone:

- ipmitool
- ilomconfig
- ubiosconfig

Installing Oracle HMP on Oracle Solaris 11 System With Zones (16970964)

Due to a p5p restriction for Oracle Solaris 11, you must use the following instructions to install Oracle HMP on a Oracle Solaris 11 system with zones:

1. Before installing Oracle HMP, run the following commands:

```
#pkgrepo create /var/tmp/OHMP (or defined path)
#pkgrecv -s path/oracle-hmp-2.2.7-SunOS-5.11.p5p -d /var/tmp/OHMP '*'
#pkg set-publisher -g file:///var/tmp/OHMP mp-re
```

2. Install the desired packages with the following command:

```
#pkg install package name1 package name 2
```

Installation Path Has Changed

The installation path for the Oracle Hardware Management Pack package has changed from:

```
/extract-directory/oracle-hmp-2.2/SOFTWARE/install.bin -i console
```

to

```
/extract-directory/oracle-hmp-2.2/install.bin -i console
```

Do Not Use `install.bin -uninstall` Command to Uninstall Oracle Hardware Management Pack (15777347)

The `install.bin -uninstall` command launches the Hardware Management Pack Installer, not the Uninstaller.

Workaround

Use the following commands to launch the Uninstaller:

- For Oracle Solaris OS or Linux systems: `/opt/sun-ssm/setup/uninstall`
- For Windows systems: `C:\Program Files\Oracle\Oracle Hardware Management Pack\setup\uninstall.exe`

Hardware Management Pack Installer GUI Requires `libXtst.i686` for an Oracle Linux 6.1 System (15766013)

If you want to use the Hardware Management Pack Installer GUI on a system running Oracle Linux 6.1, you need to run the following command to install `libXtst.i686`:

```
yum install libXtst.i686
```

Workaround

Use the console installation mode instead of GUI mode.

Install `glibc.i686` for Oracle Enterprise Linux 6 Before Running the Installer (15715967)

Before installing Hardware Management Pack 2.2.1, 2.2.2, or 2.2.3 on a system running Oracle Enterprise Linux 6, you must install `glibc.i686`.

To install `glibc.i686`, run the following command:

```
yum install glibc.i686
```

Red Hat Installation Dependencies

During an automatic installation on Red Hat Enterprise Linux, the Net-SNMP service is not automatically started. The Net-SNMP service must be restarted before running the Hardware Management Agent.

Workaround

To restart the service, run the following command:

```
service snmpd restart
```

Install Path Issues

- On all operating systems, if you modify the installation path of the Hardware Management Agent, you must ensure that the path is no longer than 70 characters, does not contain any white spaces, and does not contain any of these characters: `? - _ . /`
- (CR 6982588) When creating a response file for a silent installation, you must use an absolute path to create the response file. For example: `./install.bin -i GUI -r /tmp/response.txt`

Software Has Not Passed Windows Logo Testing Warning Message During Hardware Management Pack Installation (15666328)

When installing the LAN-Over-USB driver on a Windows system, a message warns that the software has not passed Windows logo testing. This does not affect operation of the software, and it is safe to continue with the installation.

Windows Service Pack Update Required

A security update from Microsoft is required for the target server to avoid errors in Oracle Hardware Management Agent installation. The download site for the security update is:

<http://www.microsoft.com/downloads/details.aspx?familyid=766A6AF7-EC73-40FF-B072-9112BAB119C2>

Download and install `vc_redist_x86.exe` on the target server.

ILOM 3.0 and Windows Server 2003 R2

Microsoft hotfix <http://support.microsoft.com/kb/982915> must be installed on Windows Server 2003 R2 in order for Hardware Management Agent to work correctly with ILOM 3.0.

Known Issues and Notes for Software Release 2.2.x

This section describes the known issues for the current version of Hardware Management Pack. Where appropriate, CR reference numbers are provided. Use these numbers in any contact with Oracle support.

The following topics are covered in this section:

- “Common Management Pack Known Issues” on page 16
- “Storage Viewer Known Issues” on page 18
- “SNMP Agent Known Issues” on page 19
- “fwupdate Known Issues ” on page 23
- “raidconfig Known Issues ” on page 27
- “biosconfig Known Issues ” on page 29
- “ilomconfig Known Issues” on page 30
- “ipmitool Known Issues ” on page 31
- “hwmgmtcli Known Issues” on page 31
- “hwmgmtd Known Issues” on page 32

Common Management Pack Known Issues

The issues shown in the following table are related to all Hardware Management Pack tools.

Issue	Workaround
“Segmentation Fault in System With More Than 16 of the Same Type of LSI Storage Controllers (16618057)” on page 17	No

Issue	Workaround
“Working Directory Must Be Writeable to Run Commands (16538678)” on page 17	Yes
“Some Utilities Run Slowly on SPARC T3 Systems (15668523,15720486, 15705545, 15742881)” on page 17	No

Segmentation Fault in System With More Than 16 of the Same Type of LSI Storage Controllers (16618057)

If you are running `fwupdate`, `raidconfig`, `hwmgmtcli`, or `hwmgmt` on a system with more than 16 of the same type of storage controller, a segmentation fault will occur.

Working Directory Must Be Writeable to Run Commands (16538678)

The directory from which you run `ilomconfig`, `ubiosconfig` and `fwupdate` commands needs to be writable so that temporary files can be written by the root user.

If the directory is not writable, the following error code appears.

```
26: Directory not writable
```

▼ Workaround

- Change directory permissions so that the directory is writable.

Some Utilities Run Slowly on SPARC T3 Systems (15668523,15720486, 15705545, 15742881)

The `hwmgmt` utility might not provide accurate results when run on a SPARC T3 system.

Some other Oracle Hardware Management Pack utilities (such as `raidconfig` and `hwmgmtcli`) can also run very slowly on a SPARC T3 system.

These problems are due to a Oracle Solaris issue documented in CR 6937169.

▼ Workaround

- 1 Disable the affected utility.
- 2 Issue the following commands:

Note – Make sure that you read the mdb documentation carefully before issuing these commands.

```
# mdb -kw
> ddi_aliases_present/W 0
```

3 Re-enable the utility.

Storage Viewer Known Issues

The issues shown in the following table are related to Storage Viewer.

Issue	Workaround
“Sun Flash Accelerator F20 PCIe Card FDOMs Not Visible in /STORAGE (15645766)” on page 18	No
“Global Hot Spare for RAID 1 Volume Displayed as a Dedicated Hot Spare on Oracle Solaris (15586295)” on page 18	No
“The max_disks Property Is Incorrect When Using Adaptec Disk Controller (SGXPCIESAS-R-INT-Z) (15584958)” on page 18	No
“The write_cache_enabled Property Not Available for Adaptec Controllers (SGXPCIESAS-R-INT-Z) (15583722)” on page 19	No

Sun Flash Accelerator F20 PCIe Card FDOMs Not Visible in /STORAGE (15645766)

When you are using a Sun Flash Accelerator F20 PCIe Card, the FDOMs are not visible under /STORAGE in ILOM.

Global Hot Spare for RAID 1 Volume Displayed as a Dedicated Hot Spare on Oracle Solaris (15586295)

When you are using Storage Management Agent on a Oracle Solaris system configured with a global hot spare for a RAID 1 (Mirrored) RAID with a Sun Storagetek PCI-E SAS RAID HBA (SGXPCIESAS-R-INT-Z), the details of the disk are displayed as a dedicated hot spare.

The max_disks Property Is Incorrect When Using Adaptec Disk Controller (SGXPCIESAS-R-INT-Z) (15584958)

The max_disks property for a Sun Storagetek PCI-E SAS RAID HBA (SGXPCIESAS-R-INT-Z) is incorrectly displayed as 0 in Storage Viewer.

The write_cache_enabled Property Not Available for Adaptec Controllers (SGXPCIESAS-R-INT-Z) (15583722)

The write_cache_enabled property is not available for Adaptec Controllers (SGXPCIESAS-R-INT-Z).

SNMP Agent Known Issues

The issues shown in the following table are related to SNMP Agent.

Issue	Workaround
“Some SNMP Traps Available in ILOM Are Not Generated by Hardware Management Pack (15686011)” on page 20	Yes
“snmpwalk of the Storage MIB Results in a Timeout or Error Message (15694465)” on page 20	No
“SNMP Trap Issues” on page 20	Yes
“Sun X6250 Server Module Reports Wrong Service Processor Version Number ” on page 20	Yes
“Parent FRU Name for Sensors on Shared Components in a Blade Chassis is Incorrect (15728111, 15688172)” on page 21	Yes
“Discrete Current Sensors Are Miscategorized on SPARC T3-Series Servers (15687547)” on page 21	Yes
“sunHwMonFruStatus Does Not Reflect the Fault State of A Component (15687574)” on page 21	Yes
“SunHwMonInventoryTable Shows Incorrect Number of DIMMs (15566455)” on page 21	Yes
“SunHwMonDiscreteHardDriveSensorTable Incorrect Sensors ” on page 22	No
“Host Agent Might Generate Incorrect NOTIFICATION (15675490)” on page 22	Yes
“Windows Hardware Management Agent SNMP Walk on a Sensor Group Issue (15604854)” on page 22	Yes
“sunStorageVolumeOSMountPoint Not Showing Mount Point (15666684)” on page 22	No
“Incorrect DiskOSDeviceName on SPARC T3-2 System (15668518)” on page 22	Yes
“Storage MIB Does Not Expose Dual Path Disks (15673745)” on page 23	Yes

Some SNMP Traps Available in ILOM Are Not Generated by Hardware Management Pack (15686011)

The following types of SNMP traps that might be generated by Oracle ILOM are not generated by Hardware Management Pack:

- Events that get reported for host state changes
- Events related to fault handling
- Events related to presence state changes of components on the platform

Workaround

You can access this information from ILOM or SNMP interfaces.

snmpwalk of the Storage MIB Results in a Timeout or Error Message (15694465)

When you use the `snmpwalk` command with a Storage MIB on a SPARC system, the storage information appears, but you might receive an error message or timeout at the end of the output.

This error message can safely be ignored.

SNMP Trap Issues

- `sunHwTrapProductName` can be empty on some platforms.
- `sunHwTrapSystemIdentifier` is empty when the service processor is running ILOM 2.0.
- `sunHwTrapAssocObjectId` is always set to `SNMPv2-SMI::zeroDotZero`.
- `sunHwTrapComponentName` is set to the IPMI name of the component rather than the name used by ILOM.
- On Sun Fire X4200 M2 servers, Hardware Management Agent sends `sunHwTrapComponentOK` or `sunHwTrapComponentError` instead of `sunHwTrapSlotOrConnectorOk` or `sunHwTrapSlotOrConnectorError`, which are sent by ILOM.

Workaround

You can access this information from ILOM or SNMP interfaces.

Sun X6250 Server Module Reports Wrong Service Processor Version Number

When you run the Hardware Management Agent on Sun X6250 server modules with older service processor firmware, the wrong version of service processor is reported.

Workaround

Oracle recommends that you upgrade to the latest firmware.

Parent FRU Name for Sensors on Shared Components in a Blade Chassis is Incorrect (15728111, 15688172)

sunHwMon...SensorParentFruName is incorrectly set to /SYS for sensors on shared field replaceable units (FRUs) in a blade chassis.

Workaround

Use ILOM to determine the correct parent name for these sensors.

Discrete Current Sensors Are Miscategorized on SPARC T3-Series Servers (15687547)

On SPARC T3-Series servers, discrete current sensors are miscategorized and listed in sunHwMonDiscreateOtherSensorTable instead of in sunHwMonDiscreteCurrentSensorTable.

Workaround

Use the sunHwMonDiscreateOtherSensorTable to view discrete current sensors.

sunHwMonFruStatus Does Not Reflect the Fault State of A Component (15687574)

A component's status, as represented by sunHwMonFruStatus, is a cumulative status of sensors on that component. This status can differ from the component status in ILOM.

Workaround

Check ILOM to determine whether or not a components is faulted.

SunHwMonInventoryTable Shows Incorrect Number of DIMMs (15566455)

On some platforms, DIMMs which are not present in the system are shown in sunHwMonInvetoryTable.

Workaround

View the FruDescr, FruPartNumber, FruSerialNumber and FruManufacturer objects. If these values are filled in, the DIMMs are present in the system. If there objects are not filled in, it indicates DIMMs that are not present and can be safely ignored.

SunHwMonDiscreteHardDriveSensorTable Incorrect Sensors

Due to platform limitations, sunHwMonDiscreteHardDriveSensorTable can contain sensors for disks not physically present on the host. These sensors have a ParentFruIndex of -1 and end with STATE-HIDDEN. These sensors can be safely ignored.

Host Agent Might Generate Incorrect NOTIFICATION (15675490)

Not all device types defined in recent releases of ILOM are recognized by the host agent, resulting in cases where the host agent generates a generic sunHwTrapComponent Notification rather than a device specific Notification (for example, sunHwTrapSlotOrConnector). This is due to a component error rather than a slot or connector.

Workaround

Use the NAC name from the MIB to determine the specific device for the Notification.

Windows Hardware Management Agent SNMP Walk on a Sensor Group Issue (15604854)

When you use Hardware Management Agent on a Windows operating system, an SNMP walk of a sensor group returns an empty string if this group contains discrete sensors.

Workaround

A work around is an SNMP walk of the whole Sun-HW-Monitoring MIB.

sunStorageVolumeOSMountPoint Not Showing Mount Point (15666684)

sunStorageVolumeOSMountPoint reports a device name instead of a mount point

Incorrect DiskOSDeviceName on SPARC T3-2 System (15668518)

DiskOSDeviceName on a SPARC T3-2 server reports 02000000:0 and 02000000:2 as OSDeviceName. No such names can be found on the host OS.

Workaround

For multipath disks, raidconfig returns only the WWN for the device instead of the full path name. The format command returns the full path name of this device with the WWN embedded in it. You can correlate the device by using the WWN.

For example:

- This is the information that you get on a device using raidconfig: Device:
5000CCA00A49BC1C

- This is the information that you get on a device using the format command: Device :
c0t5000CCA00A49BC1Cd0

Storage MIB Does Not Expose Dual Path Disks (15673745)

sunStorageDiskTable shows only a single disk instance when a physical disk is dual-pathed to two controllers.

Workaround

Use ILOM to determine the correct information about the disk.

fwupdate Known Issues

The issues shown in the following table are related to the fwupdate tool.

Issue	Workaround
“Updating ILOM on a Window System with fwupdate Command Fails (17576286)” on page 24	No
“Firmware Versions Do Not Display With 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) (17037795)” on page 24	No
“Firmware Update Failure With a 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) on a Solaris 10 1/13 System (17551814)” on page 24	No
“Notes for Dual 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) (17503938)” on page 24	No
“Power Cycle Required to Update Oracle ILOM Version on Sun Fire X4170 M2 Server (16562687)” on page 25	No
“fwupdate Not Supported for Flash Accelerator F40 PCIe Card on a Windows Systems (16278659)” on page 25	No
“fwupdate Only Upgrades Firmware for the First Port on a Dual Port Emulex Pallene-E Host Bus Adapter (15811623)” on page 25	Yes
“Emulex Fibre Channel Cards Are Not Visible on Oracle VM 3.1.1 (15790684)” on page 25	No
“Error Messages Can Be Disregarded When Updating Firmware for a Emulex Fiber Channel Card (15762571)” on page 26	No
“For a Sun Fire X4270 M3 Server With Oracle Enterprise Linux 6.0 a Qlogic Card in Slot 2 is Not Displayed (15763607, 11177285)” on page 26	Yes

Issue	Workaround
“After Updating the Firmware on an Internal Expander Configured for a Sun StorageTek 6Gb/s SAS PCIe HBA, Internal (SGX-SAS6-INT-Z), a Reboot is Required (15657192)” on page 26	Yes
“fwupdate Cannot Downgrade Firmware (15663490)” on page 26	Yes
“Cannot Update HDDs Firmware With fwupdate update Command With Windows 2008 R2 and OEL 5.4 (15643212)” on page 27	No
“IPMI Initialization Causes an Error Message in the fwupdate . log File (15670576)” on page 27	No

Updating ILOM on a Window System with fwupdate Command Fails (17576286)

When ILOM is updated on windows it always fails with the following message:

```
Firmware download failed for component
```

Firmware Versions Do Not Display With 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) (17037795)

When 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) cards are in NIC or CNA mode, the fwupdate list command does not display the EFI, FCODE and BIOS versions.

This occurs regardless of the operating system on the server.

Firmware Update Failure With a 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) on a Solaris 10 1/13 System (17551814)

On a Solaris 10 1/13 system, 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) card in FCoE or NIC mode, a firmware update using fwupdate will fail.

Notes for Dual 16Gb Fibre Channel or Dual 10 GbE Card (Emulex) (17503938)

For an Emulex Dual 16Gb Fibre Channel or Dual 10 GbE controller card with the following conditions:

- In NIC mode or CNA mode,
- FCoE SFP transceiver is attached,
- Running under Linux unbreakable kernel mode

The following behavior applies to both automatic and manual fwupdate mode:

- When multiple Emulex Dual 16Gb Fibre Channel or Dual 10 GbE cards are present on the system in NIC mode, all the cards are updated when `fwupdate` is used to update firmware, even if you run the command to update one card.
- Place the firmware image to be used for the update to be in a `firmware` directory. For example, if firmware image `xyz` is being used for an update, this firmware image should be under `/firmware/xyz`.

If multiple images exist under the `firmware` directory, `fwupdate` will use the latest version from the images in the `firmware` directory.

Power Cycle Required to Update Oracle ILOM Version on Sun Fire X4170 M2 Server (16562687)

When upgrading ILOM from a lower version than 3.1.2.20 to a version 3.1.2.20 or later on the Sun Fire X4170 M2 server, the server must be power-cycled. If the server is not set up to power cycle automatically after the firmware update, power off the host and power it back on again after a few minutes.

fwupdate Not Supported for Flash Accelerator F40 PCIe Card on a Windows Systems (16278659)

`fwupdate` is not currently supported for updating a Flash Accelerator F40 PCIe Card installed a systems running a Windows operating system.

fwupdate Only Upgrades Firmware for the First Port on a Dual Port Emulex Pallene-E Host Bus Adapter (15811623)

When updating firmware for a dual port Emulex Pallene-E host bus adapter, `fwupdate` only updates the firmware on the first port of the controller, and the second port does not get updated.

▼ Workaround

- Use the Emulex OneCommand tool to update the firmware of the second port manually.

Emulex Fibre Channel Cards Are Not Visible on Oracle VM 3.1.1 (15790684)

When an Emulex fibre channel card is installed on a system running Oracle VM 3.1.1, `fwupdate` does not recognize the card.

Error Messages Can Be Disregarded When Updating Firmware for a Emulex Fiber Channel Card (15762571)

When doing a firmware upgrade for a Emulex Fibre Channel Card, the following error messages might be displayed, and can be disregarded:

```
Updating c3: lpfc 0000:b0:00.0: 0:1306 Link Up Event in loop back
>>>> mode x1 received Data: x1 x1 x20 x1
>>>> lpfc 0000:b0:00.0: 0:1309 Link Up Event npiv not supported in loop
>>>> topology
>>>> lpfc 0000:b0:00.0: 0:(0):2858 FLOGI failure Status:x3/x18 TMO:x0
>>>> lpfc 0000:b0:00.0: 0:(0):2858 FLOGI failure Status:x3/x18 TMO:x0
>>>> lpfc 0000:b0:00.0: 0:(0):2858 FLOGI failure Status:x3/x18 TMO:x0
>>>> lpfc 0000:b0:00.0: 0:(0):2858 FLOGI failure Status:x3/x18 TMO:x0
>>>> Success
```

For a Sun Fire X4270 M3 Server With Oracle Enterprise Linux 6.0 a Qlogic Card in Slot 2 is Not Displayed (15763607, 11177285)

FWupdate is unable to list a Qlogic card in Slot 2 of a Sun Fire X4270 M3 server running Oracle Enterprise Linux 6.0.

Workaround

Move the card to another slot.

After Updating the Firmware on an Internal Expander Configured for a Sun StorageTek 6Gb/s SAS PCIe HBA, Internal (SGX-SAS6-INT-Z), a Reboot is Required (15657192)

After updating the internal expander firmware on a X4270 M2 server with Sun StorageTek 6Gb/s SAS PCIe HBA, Internal (SGX-SAS6-INT-Z), a reset command causes the server to become unstable and possibly hang.

Workaround

Reboot the server to resolve this problem.

fwupdate Cannot Downgrade Firmware (15663490)

If you attempt to downgrade firmware for an Hitachi H101414SC 146 GB disk driver using fwupdate, you might receive a message stating that the update was successful; however, fwupdate does not support firmware downgrades on this device.

Workaround

Compare the current firmware version with the version to which you want to update. If the current version is newer, do not update the firmware.

Cannot Update HDDs Firmware With fwupdate update Command With Windows 2008 R2 and OEL 5.4 (15643212)

You cannot update HDD firmware with fwupdate update if you have the following HDDs installed on a Sun Fire X2270 M2 server:

- For Windows systems: Seagate model ST35000NSSUN500G and Hitachi model HUA7210SASUN1.0T
- For Linux systems: Seagate model ST35000NSSUN500G

IPMI Initialization Causes an Error Message in the fwupdate . log File (15670576)

The following message appears when running fwupdate on a Windows system:

```
fwupdate version 2.0.0
Wed Sep 22 15:23:26 2010:(CLI) Fishwrap version 4.0.1
Failed to initialize security (80010119)
```

This message can be ignored.

raidconfig Known Issues

The issues shown in the following table are related to the raidconfig tool.

Issue	Workaround
“raidconfig Hangs When Disk Removed From SPARC Server (15826569)” on page 28	Yes
“On SLES 11 SP 1 System, Disks Might Disappear (15845681)” on page 28	Yes
“RAID Volume Might Not Be Visible in Oracle ILOM on SPARC Systems (15782246)” on page 28	Yes
“RAID 1 Volume With More Than Two Disks Is Not Handled Correctly (15747500)” on page 28	No
“When Running init Task on RAID Volume clear Tasks on Disks Always Show 0% Complete (15742034)” on page 28	No
“Mounted Property for RAID Volumes is Not Visible When Using SGX-SAS6-R-REM-Z or SGX-SAS6-R-INT-Z (15666684)” on page 29	Yes
“After Creating a RAID Volume With --name Option With LSI REM, Volume's Name is Still Null (15675209)” on page 29	No
“Different RAID Volumes Have the Same Device Name When OS is VMWare ESX 3.5 Update 5 (15674922)” on page 29	No

raidconfig Hangs When Disk Removed From SPARC Server (15826569)

If a disk that is part of a RAID volume is physically removed from a SPARC server, the `raidconfig` command hangs.

▼ **Workaround**

- 1 Do one of the following
 - Reboot the OS (recommended).
 - Wait for about 10 minutes.
- 2 Run the `raidconfig` command.

On SLES 11 SP 1 System, Disks Might Disappear (15845681)

On a SLES 11 SP 1 system, disks that are used in RAID volumes or as hot-spares might not be listed in the `raidconfig` list output.

Workaround

Install an updated `mpt2sas` driver.

RAID Volume Might Not Be Visible in Oracle ILOM on SPARC Systems (15782246)

A RAID volume created using `raidconfig` might not be visible under the `/STORAGE` target in Oracle ILOM.

Workaround

Use the `raidconfig list all` command to view the newly created volume.

RAID 1 Volume With More Than Two Disks Is Not Handled Correctly (15747500)

For the SGX-SAS6-R-INT-Z HBA, no more than two disks can be used for creating a RAID 1 volume.

When Running init Task on RAID Volume clear Tasks on Disks Always Show 0% Complete (15742034)

When an `init` task is running on a RAID volume, the disks in that RAID volume have a `clear` task started on them. The percentage complete for the `clear` task always shows zero until the `init` task has finished.

A workaround is not required.

Mounted Property for RAID Volumes is Not Visible When Using SGX-SAS6-R-REM-Z or SGX-SAS6-R-INT-Z (15666684)

The Mounted property is missing from RAID volumes created when using the SGX-SAS6-R-INT-Z HBA or SGX-SAS6-R-REM-Z. `raidconfig` will not prevent you from deleting a mounted volume.

▼ **Workaround**

- 1 Using the `raidconfig` command, retrieve the Device Name for the RAID volume.
- 2 Check the output of the `mount` command for an instance of the Device Name retrieved in Step 1.
- 3 If the Device Name is present in the output of the `mount` command, the RAID volume is currently mounted and should not be deleted using `raidconfig`.
- 4 Unmount the RAID volume first, then use `raidconfig` to delete the volume.

After Creating a RAID Volume With --name Option With LSI REM, Volume's Name is Still Null (15675209)

After creating a RAID volume on the RAID 0/1 Expansion Module (X4607A) using `raidconfig` with the `--name` option, the RAID volume name is still null, though the RAID volume is successfully created.

Different RAID Volumes Have the Same Device Name When OS is VMWare ESX 3.5 Update 5 (15674922)

When creating two RAID volumes on a RAID Expansion Module (X4620A) on a server running VMWare ESX 3.5 Update 5, the RAID volumes have the same device name.

biosconfig Known Issues

The issues shown in the following table are related to the `biosconfig` tool.

Issue	Workaround
"Windows Server 2008 x64 SP2 Driver Warning (15636772)" on page 30	Yes

biosconfig Fails Intermittently on Oracle VM 3.1.1 System (15790574)

The biosconfig command might fail on an Oracle VM 3.1.1 system with a segmentation fault.

For example:

```
# biosconfig -get_bios_settings
Segmentation fault
```

This failure is very infrequent (2 or 3 times out of a hundred).

Workaround

Try the biosconfig command again.

Windows Server 2008 x64 SP2 Driver Warning (15636772)

When using biosconfig on Windows Server 2008 x64 SP2, you might encounter an unsigned driver warning. This warning can be safely ignored.

ilomconfig Known Issues

The issue shown in the following table is related to the ilomconfig tool.

Issue	Workaround
“DHCP Discover When Enabling Local Host-to-ILOM Interconnect on a Linux System (17563392)” on page 30	No
“ilomconfig Commands Might Fail When Using ILOM 3.0.9 (15650623)” on page 30	Yes

DHCP Discover When Enabling Local Host-to-ILOM Interconnect on a Linux System (17563392)

This bug affects Oracle HMP version 2.2.7 and earlier.

When using "ilomconfig enable interconnect" on a Linux system running the Network Manager, a DHCP discover is sometimes done on the system interconnect port.

This action is harmless but the interconnect should not be used until the DHCP discover completes.

ilomconfig Commands Might Fail When Using ILOM 3.0.9 (15650623)

ILOM versions 3.0.9 and earlier have limitations that might cause the ilomconfig command to fail with the error Cannot connect to BMC. These errors can occur when multiple programs attempt to access the IPMI interface of ILOM.

If such errors do occur, ILOM must recover from this error. This recovery could mean a one or two minute disruption in the services provided by ILOM.

Workaround

To help avoid this error, disable the Hardware Management Agent and Storage Monitoring Agent before using `ilomconfig`. Also, any other IPMI access to ILOM, such as using `ipmitool`, should be avoided when running `ilomconfig`.

ipmitool Known Issues

The issue shown in the following table is related to `ipmitool`.

Issue	Workaround
“ipmitool Error Might Occur When SP Is Booted When SPARC T3-4 Host Is On (15719015, 15691003)” on page 31	Yes

ipmitool Error Might Occur When SP Is Booted When SPARC T3-4 Host Is On (15719015, 15691003)

When the SPARC T3-4 host is powered on and the SP is booted, you might receive the following error:

```
SP communication failure....Please start IPMI
```

```
ipmitool will not function in this state.
```

Workaround

If you encounter this error, reboot the host to clear the error.

hwmgmtcli Known Issues

The issues shown in the following table are related to `hwmgmtcli`.

Issue	Workaround
“Running hwmgmtcli on a Sun Blade X6270 M2 Server Might Return Error Messages for Chassis Information (15762248)” on page 32	Yes
“Sun Blade X6270 M2 Shows Incorrect Chassis Data (15732926,15737206,15737199)” on page 32	Yes

Running `hwmgmtcli` on a Sun Blade X6270 M2 Server Might Return Error Messages for Chassis Information (15762248)

When running `hwmgmtcli` commands, errors are returned for chassis information as follows:

```
Chassis Model: ERROR
Chassis Address: ERROR
```

Workaround

To avoid this error, upgrade to Oracle ILOM 3.1.

Sun Blade X6270 M2 Shows Incorrect Chassis Data (15732926,15737206,15737199)

When using the `hwmgmtcli` command to view chassis information on a Sun Blade X6270 M2 server module, some information about the chassis is missing.

Workaround

Use Oracle ILOM CMM to view the chassis information.

`hwmgmtd` Known Issues

The issues shown in the following table are related to `hwmgmtd`.

Issue	Workaround
“SNMP Traps and Syslog Messages Not Generated by <code>hwmgmtd</code> on Linux Systems (17854200)” on page 32	Yes
“IPMI Driver Issue With <code>hwmgmtd</code> on a Red Hat Linux 6.4 System (16975947)” on page 33	Yes
“ <code>hwmgmtd</code> Memory Usage Grows Over Time in Windows Systems (15752292)” on page 33	Yes
“ <code>hwmgmtd</code> Not Started When Oracle Hardware Management Pack 2.2.1 or 2.2.2 is Installed on an ESX 3.5 Server (15738417)” on page 33	Yes

SNMP Traps and Syslog Messages Not Generated by `hwmgmtd` on Linux Systems (17854200)

In Oracle HMP 2.2.8, SNMP traps, syslog errors and warnings will not be generated by the hardware agent (`hwmgmtd`). This issue applies to all supported Linux versions.

Workarounds:

- Use `ipmievd` utility to log IPMI SEL events from ILOM to `syslog`.
`ipmievd` is a binary that is part of the `ipmitool` package in HMP. See the man page for more information.
- Use `itpconfig` (ILOM Trap Proxy) to forward the SNMP traps directly from ILOM.
See the *Oracle Server Management Agents User's Guide* for more information about `itpconfig`.

IPMI Driver Issue With `hwmgmtd` on a Red Hat Linux 6.4 System (16975947)

Starting the Hardware Agent (`hwmgmtd`) on a Red Hat Linux 6.4 system might cause the IPMI driver to go offline. The issue is only relevant to Red Hat Linux 6.4 using the openIPMI IPMI driver.

Workaround

Within 30 seconds of starting the agent, start the IPMI driver with the following command:

```
/etc/init.d/ipmi start
```

This reinstates the IPMI service and allows the agent to resume activity.

`hwmgmtd` Memory Usage Grows Over Time in Windows Systems (15752292)

When `hwmgmtd` is running on a Windows system, the daemon uses more memory over time.

Workaround

`hwmgmtd` is automatically restarted every 24 hours on Windows systems so that memory usage is flushed. You will see a message in the logs stating that `hwmgmtd` has restarted.

`hwmgmtd` Not Started When Oracle Hardware Management Pack 2.2.1 or 2.2.2 is Installed on an ESX 3.5 Server (15738417)

After installing Management Pack 2.2.1 or 2.2.2 in a system running ESX 3.5 `hwmgmtd` does not start automatically.

Workaround

Start the `hwmgmtd` agent manually. Refer to the Oracle Server Management Agents 2.2 User's Guide for more information on running `hwmgmtd` manually.

Using Oracle Hardware Management Pack With SPARC M5–32 Server

The following sections cover specific information for using Oracle Hardware Management tools with the SPARC M5–32 server:

- “`ilomconfig (16369886)`” on page 34
- “`hwmgmtcli (16507559)`” on page 35
- “`itpconfig (16508501, 16507898)`” on page 36
- “`hwmgmtd (15824059, 15824037)`” on page 36

`ilomconfig (16369886)`

The SPARC M5-32 server has a pair of dual-redundant SPs (SP0 and SP1) in the chassis. It also has 4 SP proxies (SPP0, SPP1, SPP2, SPP3).

The host OS does not have direct access to all Oracle ILOM properties from the SPs, so you need to use Oracle ILOM to access ILOM properties from the SP, rather than `ilomconfig`.

For SPARC M5-32 servers, the Oracle Solaris host OS runs on the SPPs. `ilomconfig` accesses the Oracle ILOM SPP from the Oracle Solaris host OS.

The following table describes the properties of the SPs and SPPs.

Service Processor Type	Description	Tool to access SP
SP0, SP1 (redundant service processors)	These are the main service processors with all the standard Oracle ILOM properties. The SPs manage the SPPs.	Oracle ILOM
SPP0, SPP1, SPP2, SPP3 (service processor proxies)	Each SPP monitors a domain configurable unit (DCU). The host OS runs on the SPPs.	<code>ilomconfig</code>

Note – For more information on the SPARC M5–32 Server, see the SPARC M5–32 Server documentation at <http://www.oracle.com/goto/M5-32/docs>

Properties Not Available From the SPARC Server M5–32 SPPs

The following table lists the Oracle ILOM properties that are not available from SPARC M5-32 server SPP.

ILOM Properties	ilomconfig Features
/SP/config	export, import
/SP/users	user
/SP/services/snmp/communities	snmp-community
/SP/network/pending	network mgmt (read-only)

ilomconfig Commands Supported on SPARC M5-32 Server Platforms

For SPARC M5-32 server, the following `ilomconfig` subcommands and targets are supported:

- `list` subcommand targets:
 - `system-summary`
 - `network`
 - `network-ipv6`
 - `interconnect`
 - `identification`
- `enable` subcommand target:
 - `interconnect`
- `disable` subcommand target:
 - `interconnect`
- `modify` subcommand targets:
 - `interconnect`
 - `identification`
- `create` subcommand target:
 - `credential`
- `delete` subcommand target:
 - `credential`

hwmgmtcli (16507559)

A new subsystem has been added for multi-domained systems, such as SPARC M5-32 server:

`dcu` - Show details of `dcu` sub-system.

The `open_problem`, `health`, and `health_details` information is viewable for SPARC M5-32 servers, but the data is currently not reliable.

itpconfig (16508501, 16507898)

The fault proxy cannot be enabled on the SPARC M5–32 servers. These servers have no Oracle ILOM alert management on the SPP, and there is no Host-to-ILOM interconnect between the SP and an OS, so there is no way for this tool to function.

hwmgmt (15824059, 15824037)

hwmgmt can be used on SPARC M5–32 servers to provide storage information to Oracle ILOM, but SNMP agent functionality of hwmgmt should not be used, as it will provide erroneous data.