

Sun Blade X6270 M2 Server Module

Product Notes, Software Release 1.4



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Sun Blade X6270 M2 Server Module Product Notes

Topics

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General information	<ul style="list-style-type: none">• “Product Information” on page 2• “Firmware Supported in This Release” on page 3• “Versions of Intel Microcode and Reference Code Used in BIOS Firmware” on page 4• “Firmware Updates” on page 4• “Oracle ILOM Operates in Dual-Stack IPv4 and IPv6 Network Environments” on page 4• “Operating Systems Supported” on page 5• “Support and Patches” on page 6• “Tools and Drivers” on page 6• “Documentation Collection” on page 6
Enhancements and Resolved Issues	<ul style="list-style-type: none">• “Enhancements as of SW 1.3” on page 7• “BIOS Resolved Issues” on page 8
Known open issues	<ul style="list-style-type: none">• “Hardware Known Issues” on page 10• “BIOS Known Issues” on page 14• “Oracle ILOM Known Issues” on page 15• “Virtual Machine Software Known Issues” on page 16• “Oracle Solaris Known Issues” on page 20• “Oracle Linux, RHEL, and SLES Known Issues” on page 21• “Windows Known Issues” on page 24• “Documentation Updates and Errata” on page 25

General Information

Topics

Description	Link
Product information	<ul style="list-style-type: none">• “Product Information” on page 2
Firmware supported	<ul style="list-style-type: none">• “Firmware Supported in This Release” on page 3
Intel Microcode and Reference Code used in the BIOS firmware	<ul style="list-style-type: none">• “Versions of Intel Microcode and Reference Code Used in BIOS Firmware” on page 4
Information about new network configuration options	<ul style="list-style-type: none">• “Oracle ILOM Operates in Dual-Stack IPv4 and IPv6 Network Environments” on page 4
Download site for firmware updates	<ul style="list-style-type: none">• “Operating Systems Supported” on page 5
Supported operating systems	<ul style="list-style-type: none">• “Operating Systems Supported” on page 5
Support information	<ul style="list-style-type: none">• “Support and Patches” on page 6
Tools and Drivers DVD	<ul style="list-style-type: none">• “Tools and Drivers” on page 6
Download site for latest product documentation	<ul style="list-style-type: none">• “Documentation Collection” on page 6

Product Information

For information about the Sun Blade X6270 M2 Server Module, go to the following Oracle product web site:

<http://www.oracle.com/goto/x6270m2>

At that site, you can find information about the following:

- Product information and specifications
- Supported operating systems
- Software and firmware downloads

Firmware Supported in This Release

TABLE 1 identifies the Oracle ILOM and BIOS firmware versions that are supported in Software Release 1.4 and in previous software releases

TABLE 1 Sun Blade X6270 M2 Server Module Firmware Available in Software Releases

Software Release	Oracle ILOM Service Processor (SP) Firmware	Oracle ILOM Chassis Monitoring Module (CMM) Firmware	BIOS Firmware for X6270 M2 Server Module
1.4.1	3.0.16.11.h	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.03.06
1.4	3.0.16.11.g	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.03.05
1.3.2	3.0.16.11.e	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.02.03
1.3.1	3.0.16.11.d	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.02.02
1.3	3.0.16.11.b	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.02.02
1.2.1	3.0.16.11.a	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.01.09
1.2	3.0.16.11	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.01.08
1.1.3	3.0.14.12.c	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.05.02.03
1.1.2	3.0.14.12.b	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.05.02.03
1.1.1	3.0.14.12.a	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.05.02.03
1.0.1	3.0.9.15.a	3.0.6.11.b (r489888) (or subsequent release) 3.0.12.10 (or subsequent release)	08.02.01.05

Firmware Updates

The latest Oracle Integrated Lights Out Manager (ILOM) and BIOS firmware is shipped installed on the Sun Blade X6270 M2 Server Module. If you need to reinstall this firmware or obtain updates to this firmware, you can obtain the firmware for the Sun Blade X6270 M2 Server Module from the My Oracle Support web site at:

<http://support.oracle.com>

Versions of Intel Microcode and Reference Code Used in BIOS Firmware

TABLE 2 lists the versions of the Intel Microcode and Reference Code used in the BIOS firmware image for Software Release 1.4.

TABLE 2 Intel Microcode and Reference Code Used in BIOS Firmware for Software Release 1.4

Intel Software	Version
Intel CPU Microcode	SRV_C_89
Intel RC	p2.93
Intel CPU Reference Code	1.08
Intel QuickPath Interconnect (QPI) Reference Code	1.85
Intel Memory Reference Code (MRC)	2.12

Oracle ILOM Operates in Dual-Stack IPv4 and IPv6 Network Environments

As of Oracle ILOM 3.0.12 and later releases, dual-stack IPv4 and IPv6 settings are provided that enable Oracle ILOM to fully operate in IPv4 and IPv6 network environments. Prior to Oracle ILOM 3.0.12, network configurations settings for IPv4 were provided.

Oracle ILOM enhancements for IPv6 include:

- Support for a larger 128-bit IPv6 addressing space
- Acceptance of IPv6 addresses in designated text entry fields and URLs in the Oracle ILOM CLI and web interface

For more information about this upgrade, refer to the Oracle Integrated Lights Out Manager (ILOM) 3.0 Documentation Collection at:

<http://www.oracle.com/pls/topic/lookup?ctx=ilom30>

Operating Systems Supported

The Sun Blade X6270 M2 Server Module supports the following operating system editions:

- Oracle Linux 5.4, 5.5, 5.6, 5.7, and 5.8 (64-bit)
- Oracle Linux 6.0, 6.1, and 6.2 (64-bit)
- Oracle VM 2.2.1, 2.2.2, 3.0.2, 3.0.3, and 3.1.1
- Oracle Solaris 11 11/11
- Oracle Solaris 10 10/09
- Microsoft Windows Server 2008 SP2 Datacenter (64-bit) with Hyper-V
- Microsoft Windows Server 2008 SP2 Enterprise (64-bit) with Hyper-V
- Microsoft Windows Server 2008 SP2 Standard (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 SP1 Datacenter (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 SP1 Enterprise (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 SP1 Standard (64-bit) with Hyper-V
- Red Hat Enterprise Linux (RHEL) 5.4, 5.5, 5.6, 5.7, and 5.8 (64-bit)
- Red Hat Enterprise Linux (RHEL) 6.0, 6.1, and 6.2 (64-bit)
- SUSE Linux Enterprise Server (SLES) 10 SP3 and SP4 (64-bit)
- SUSE Linux Enterprise Server (SLES) 11 (64-bit) and SLES 11 SP1 and SP2
- VMware ESX and ESXi 4.0 Update 1 and Update 2
- VMware ESX and ESXi 4.1
- VMware ESX and ESXi 5.0

Refer to the respective operating system installation guide within the Sun Fire X6270 M2 Documentation Collection for installation instructions for the operating systems listed above. The Sun Fire X6270 M2 Documentation Collection is available at:

<http://docs.oracle.com/cd/E19474-01/index.html>

Note – Oracle Solaris 10 Operating System and Oracle VM are available as preinstalled options on a server disk drive. For configuration instructions for these preinstalled options, refer to the *Sun Blade X6270 M2 Server Module Installation Guide*.

Support and Patches

Support information for the Sun Blade X6270 M2 Server Module is available at:

<http://support.oracle.com>

Tools and Drivers

A Tools and Drivers ISO image for the Sun Blade X6270 M2 Server Module is available for you to download. This ISO image includes device drivers, RAID management software, and other software utilities for use with your server module. You can download the latest Tools and Drivers ISO image for the Sun Blade X6270 M2 Server Module from the My Oracle Support web site at:

<http://support.oracle.com>

Documentation Collection

The Sun Blade X6270 M2 Documentation Collection, including updated Product Notes for server module, is available at the following documentation web site:

<http://docs.oracle.com/cd/E19474-01/index.html>

Note – Translated versions of the *Sun Blade X6270 M2 Server Module Installation Guide* include information about the flash module on disk (FMOD) and the energy storage module (ESM). These components are not supported on the Sun Blade X6270 M2 Server Module. Please disregard that information in the translated documents and refer to the latest English-language version of the *Sun Blade X6270 M2 Server Module Installation Guide*.

Enhancements and Resolved Issues

Topics

Description	Link
iSCSI function support added	<ul style="list-style-type: none">• “Enhancements as of SW 1.3” on page 7
BIOS resolved issues	<ul style="list-style-type: none">• “BIOS Resolved Issues” on page 8

Enhancements as of SW 1.3

TABLE 3 Enhancements as of SW 1.3

CR	Description
7087299	<p>iSCSI Function Support Added as of Software Release 1.3</p> <p>Enhancement: After pressing "F2" to access the BIOS Setup menu, you can select BOOT --> Option ROM Enable --> Kawela iSCSI Feature. You can now toggle the iSCSI setting from the default Disabled to Enabled. When enabled, BIOS will automatically disable the onboard network controller's PXE option ROM, and BIOS will run the iSCSI option ROM first.</p> <p>Note - Option ROM runtime code for iSCSI is about 40k. After iSCSI is enabled, inserting many other PCIe devices with option ROM might trigger a warning message about the ROM size.</p> <p>Note - Oracle VM 3.0 SERVER INSTALL/BOOT over iSCSI is not supported as of Software Release 1.3.2</p>

BIOS Resolved Issues

TABLE 4 BIOS Resolved Issues

CR	Description
7049067	<p>Link Speed of the Sun Storage 6 Gb SAS ExpressModule HBA Is Reduced to Gen1 Speed When the HBA Is Hot-Plugged</p> <p>Issue: The Sun Storage 6 Gb SAS ExpressModule Host Bus Adapter (HBA) (SGX-SAS6-EM-Z) will reduce its link speed to 2.5GT/s when hot-plugged on the Sun Blade X6270 M2 Server Module.</p> <p>Affected Hardware:</p> <ul style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • Sun Storage 6 Gb SAS ExpressModule HBA (SGX-SAS6-EM-Z) <p>Fix Available: Fixed in Software Release 1.2.1.</p>
6898588	<p>Using <CTRL-N> With the REM HBA Option Card Installed Might Bypass Network Boot and REM HBA Option ROM Load</p> <p>Issue: If the Sun Storage 6 Gb SAS RAID Expansion Module (REM) Host Bus Adapter (HBA) (SGX-SAS6-REM-Z) option card is installed in the system, and <CTRL-N> is used on the serial console to initiate a network boot, the network boot might not be initiated, and the Option ROM for the REM HBA option card might not be loaded.</p> <p>Affected Hardware and Software:</p> <ul style="list-style-type: none"> • Sun Storage 6 Gb SAS REM HBA (SGX-SAS6-REM-Z) option card • Software releases 1.0.1 and 1.1.1 <p>Workaround: Do one of the following:</p> <ul style="list-style-type: none"> • Use the Oracle ILOM Remote Console and press F12 to initiate a network boot. • If using the serial console, use <CTRL-E> to get to the BIOS Boot Device Priority menu, and then move the desired PXE adapter (network boot device) to the top of the Boot Device Priority list. The PXE adapter will then be used as the boot device. • Press <CTRL-N> during, or after, the time SGX-SAS6-REM-Z Option ROM code is running. The Option ROM code is running when the following banner is displayed: LSI Corporation MPT SAS2 BIOS. Copyright 2000-2010 LSI Corporation. <p>Fix Available: This issue is resolved in Software Release 1.2.</p>

TABLE 4 BIOS Resolved Issues (Continued)

CR	Description
6979993	<p>Do Not Disable Redirection After BIOS Post</p> <p>Issue: If Redirection After BIOS Post is disabled in the BIOS Setup Utility, BIOS will fail during boot.</p> <p>Affected Hardware and Software:</p> <ul style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • All releases through software 1.3 <p>Workaround: To enable redirection after BIOS POST:</p> <ol style="list-style-type: none"> 1. Enter the BIOS Setup Utility. 2. Select Advanced > Remote Access Configuration. 3. Enable Redirection After BIOS POST. 4. Press F10 to save your settings and exit the BIOS Setup Utility. 5. Reboot the system. <p>Fix Available: This issue is resolved in Software Release 1.4.</p>

Known Open Issues

Topics

Description	Link
Hardware known issues, descriptions, and workarounds	<ul style="list-style-type: none"> • “Hardware Known Issues” on page 10
BIOS known issues, descriptions, and workarounds	<ul style="list-style-type: none"> • “BIOS Known Issues” on page 14
ILOM known issues, descriptions, and workarounds	<ul style="list-style-type: none"> • “Oracle ILOM Known Issues” on page 15
Virtual Machine Software known issues, descriptions, and workarounds	<ul style="list-style-type: none"> • “Virtual Machine Software Known Issues” on page 16
Oracle Solaris known issues, descriptions, and workarounds	<ul style="list-style-type: none"> • “Oracle Solaris Known Issues” on page 20

Topics	
Description	Link
Linux known issues, descriptions, and workarounds	<ul style="list-style-type: none"> • “Oracle Linux, RHEL, and SLES Known Issues” on page 21
Windows known issues, descriptions, and workarounds	<ul style="list-style-type: none"> • “Windows Known Issues” on page 24
Documentation Updates and Errata	<ul style="list-style-type: none"> • “Documentation Updates and Errata” on page 25

Hardware Known Issues

TABLE 5 Hardware Known Issues

CR	Description
1586126	<p>Fault Reported for Non-Existent NEM</p> <p>Issue: In a powered-off Sun Blade 6000 Modular System, the amber Service Required LED for a network express module (NEM) reports an erroneous fault condition. When the Sun Blade 6000 Modular System that has a Sun Blade X6270 M2 or X6270 M3 server module (blade) installed is powered off, the amber Service Required LED might be illuminated for one of the NEMs (NEM0 or NEM1) even when there is no NEM installed in the chassis. In this case, ILOM reports a <code>fault.fruid.corrupt</code> message.</p> <p>Affected Hardware and Software: Sun Blade X6270 Server Module Supplemental Software Software Releases 1.0, 1.1, 1.2, 1.4, 2.0, 2.0.1, 2.1, 2.3, 2.4</p> <p>Workaround: Power on the chassis. After the chassis is powered on, the Service Required LED for the NEM is extinguished and the system recognizes that no NEM is present.</p>

TABLE 5 Hardware Known Issues (Continued)

CR	Description
7084903	<p data-bbox="496 239 1325 291">SLES 11 SP1 Does Not Find the Sun Blade 6000 Virtualized 40 GbE NEM Device After Hot-Plugging That NEM on Sun Blade X6270 M2 Server Module</p> <p data-bbox="496 314 1325 458">Issue: After hot-plugging the Sun Blade 6000 Virtualized 40 GbE Network Express Module (NEM) on the Sun Blade X6270 M2 Server Module, the system cannot find the NEM when running the SUSE Linux Enterprise Server 11 SP1 operating system.</p> <p data-bbox="496 473 1325 638">Affected Hardware and Operating System:</p> <ul data-bbox="496 508 1325 638" style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Virtualized 40 GbE Network Express Module (7100090) • Pass-Thru PCIe 2.0 Fabric Expansion Module (7100633) • SUSE Linux Enterprise Server 11 SP 1 (SLES 11 SP1) <p data-bbox="496 654 1325 765">Workaround: Use software release 1.3.2 and later firmware and the new version of the Pass-Thru PCIe 2.0 Fabric Expansion Module 7100633 (new PCA part number is 7041199).</p>
7082742	<p data-bbox="496 789 1325 841">Sun Blade 6000 Ethernet Switched NEM 24p 10 GbE Missing in hostdiags Information</p> <p data-bbox="496 864 1325 1008">Issue: When using Oracle ILOM on a Sun Blade X6270 Server Module with two Sun Blade 6000 Ethernet Switched Network Express Module (NEM) 24p 10GbE and a Sun Dual 10 GbE PCIe 2.0 Fabric Expansion Module (FEM), hostdiags information shows only NEM0 is ACTIVE, while NEM1 is NOT ACTIVE.</p> <p data-bbox="496 1024 1325 1189">Affected Hardware:</p> <ul data-bbox="496 1058 1325 1189" style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Ethernet Switched Network Express Module 24p 10GbE (X2073A) • Sun Dual 10 GbE PCIe 2.0 Fabric Expansion Module (4871A-Z-N) <p data-bbox="496 1204 1325 1333">Workaround: No workaround is available. The Fabric Expansion Module (FEM) is seen as a PCIe device attached on the root port. NEM1 is shown as NOT ACTIVE in the hostdiags information, which means that no FEM is on the root port even though two NEMs are populated in the system.</p>

TABLE 5 Hardware Known Issues (Continued)

CR	Description
No CR Number	<p data-bbox="415 236 1219 288">Server Module REM Might Hang When Inserted Into a Chassis With SAS-1 Devices</p> <p data-bbox="415 309 1219 453">Issue: If the Sun Blade X6270 M2 Server Module is inserted into a Sun Blade 6000 Modular System chassis that has SAS-1 Network Express Modules (NEMs), or SAS-1 NEMs and a Sun Blade 6000 Disk Module, the server module's SAS-2 RAID Expansion Module (REM) might hang.</p> <p data-bbox="415 470 1190 696">Affected Hardware and Firmware:</p> <ul data-bbox="415 505 1190 696" style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Disk Module • Sun Blade 6000 Multi-Fabric Network Express Module • Sun Blade 6000 Virtualized Multi-Fabric 10GbE Network Express Module • Sun Blade 6000 Multi-Fabric 10GbE Network Express Module • Sun Blade 6000 Disk Module Firmware Version 5.04.03 <p data-bbox="415 713 1233 999">Workaround: To prevent this problem, you need to upgrade the firmware of your SAS-1 components (SAS-NEMs and disk modules) to a firmware version that supports SAS-1/SAS-2 coexistence. This upgrade must be done before you insert the Sun Blade X6270 M2 Server Module into the chassis. At a minimum, all SAS expanders for SAS-1 NEMs and Sun Blade 6000 Disk Modules must be upgraded to firmware revision 5.04.03 to allow SAS-1/SAS-2 device coexistence in the Sun Blade 6000 Modular System chassis. See the <i>SAS-1/SAS-2 Compatibility Upgrade Guide</i> for details on obtaining the firmware and performing the upgrade.</p>
6931323	<p data-bbox="415 1022 1190 1074">LED That Monitors Activity of Intel 32GB SSD and Seagate 500GB HDD Does Not Work Correctly</p> <p data-bbox="415 1095 1233 1239">Issue: The Intel 32GB solid state drive (SSD) and Seagate 500GB hard disk drive (HDD) green Activity LED does not light and remain illuminated when there is no disk activity. The LED blinks when there is disk activity, but does not remain lit when the disk is idle.</p> <p data-bbox="415 1256 805 1343">Affected Hardware:</p> <ul data-bbox="415 1291 805 1343" style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Disk Module <p data-bbox="415 1361 705 1421">Workaround: No workaround is available.</p>

TABLE 5 Hardware Known Issues *(Continued)*

CR	Description
6879222	<p data-bbox="496 234 1206 293">1GB Ethernet Controller Fails to Link at 1Gb/s With 100m Cable in Virtualized Multi-Fabric 10GbE NEM</p> <p data-bbox="496 310 1315 430">Issue: On-board Ethernet devices might experience an occasional failure to establish a connection at 1Gb/s, and might automatically establish a connection at 100 Mb/s instead.</p> <p data-bbox="496 447 889 539">Affected Hardware:</p> <ul data-bbox="496 479 889 539" style="list-style-type: none">• Sun Blade X6270 M2 Server Module• Sun Blade 6000 Disk Module <p data-bbox="496 557 1272 644">Workaround: Use an Ethernet cable 66 meters or shorter. Alternatively, you can force the Ethernet link to 100Mb/s.</p>

BIOS Known Issues

TABLE 6 BIOS Known Issues

CR	Description
7049051	<p data-bbox="415 343 1206 395">When Using Oracle Linux 6, Hot-Swap Replacement of Host Bus Adapters (HBAs) With Converged Network Adapter (CNA) Will Fail</p> <p data-bbox="415 418 478 439">Issue:</p> <p data-bbox="415 447 1235 612">When using Oracle Linux 6, a hot-swap operation will fail when replacing a StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, Emulex (SG-XPCIEFCGBE-E8-N) or StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, QLogic (SG-XPCIEFCGBE-Q8-N) with a Sun Storage 10GbE FCoE ExpressModule Converged Network Adapter (SG-XEMFCOE2-Q-SR/SG-XEMFCOE2-Q-TA) on the Sun Blade X6270 M2 Server Module.</p> <p data-bbox="415 635 863 656">Affected Hardware and Operating System:</p> <ul data-bbox="415 664 1220 907" style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • StorageTek Dual 8Gb FC Dual GbE HBA, Express Module, Emulex (SG-XPCIEFCGBE-E8-N) • StorageTek Dual 8Gb FC Dual GbE HBA, Express Module, QLogic (SG-XPCIEFCGBE-Q8-N) • Sun Storage 10GbE FCoE ExpressModule Converged Network Adapter (SG-XEMFCOE2-Q-SR/SG-XEMFCOE2-Q-TA) • Oracle Linux 6 <p data-bbox="415 930 549 951">Workaround:</p> <p data-bbox="415 960 1178 1012">No workaround is available. A reboot of the system will load the Express Module card correctly.</p>
6942287	<p data-bbox="415 1034 1035 1055">PXE Boot Might Fail After Running Pc-Check Diagnostics</p> <p data-bbox="415 1078 478 1098">Issue:</p> <p data-bbox="415 1107 1235 1168">When attempting to PXE boot immediately after running Pc-Check diagnostics software, the boot attempt might fail with a message similar to the following:</p> <pre data-bbox="415 1177 1220 1289">Intel (R) Boot Agent GE v1.3.31 Copyright (C) 1997-2009, Intel Corporation PXE-EC8: !PXE structure was not found in UNDI driver code segment. PXE-M0F: Exiting Intel Boot Agent.</pre> <p data-bbox="415 1312 621 1333">Affected Hardware:</p> <ul data-bbox="415 1341 806 1394" style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Disk Module <p data-bbox="415 1416 549 1437">Workaround:</p> <p data-bbox="415 1446 1006 1466">Run Pc-Check diagnostics again, then reboot the system.</p>

TABLE 6 BIOS Known Issues (Continued)

CR	Description
6978869	<p>Operating System Might Hang After Running Pc-Check Diagnostics</p> <p>Issue: After running Pc-Check diagnostics software, if you attempt to install or boot an operating system, the operating system install or boot might hang.</p> <p>Affected Hardware:</p> <ul style="list-style-type: none"> • Sun Blade X6270 M2 Server Module <p>Workaround: Reboot the system after running Pc-Check diagnostics and before trying to install or boot an operating system.</p>

Oracle ILOM Known Issues

TABLE 7 Oracle ILOM Known Issues

CR	Description
6928567	<p>Unable to Launch Oracle ILOM 3.0.x Remote Console Using JRE 1.6.0 U14, U15, or U16</p> <p>Issue: If you try to launch the Oracle ILOM 3.0.x Remote Console via the web using some builds of Java Runtime Environment (JRE), the system returns the error Unable to Launch the Application.</p> <p>Affected Operating Systems and Firmware:</p> <ul style="list-style-type: none"> • All operating systems running Oracle ILOM 3.0 with JRE 1.6.0, U14, U15, or U16. <p>Workaround: Upgrade to JRE 1.6.0 U17 or later.</p>

TABLE 7 Oracle ILOM Known Issues (*Continued*)

CR	Description
6923903	<p>SP Restore Is Partially Successful and Reports an Error in the Log</p> <p>Issue: If the serial console is in use, properties related to the serial console cannot be restored and you will receive messages such as the following: Config restore: Unable to restore property '/SP/serial/host/commitpending' Config restore: Unable to restore property '/SP/serial/external'</p> <p>Because such properties could not be restored, this is a partial failure and, therefore, results in the above message about the partial failure. This is not a defect.</p> <p>Affected Operating Systems and Firmware:</p> <ul style="list-style-type: none"> • All operating systems running Oracle ILOM 3.0.x <p>Workaround: Log out of the serial console and try to run <code>restore</code> again.</p>

Virtual Machine Software Known Issues

TABLE 8 Virtual Machine Software Known Issues

CR	Description
7090903	<p>iSCSI Boot Is Not Supported on Oracle VM 3.0</p> <p>Issue: The iSCSI target does not display during installation of Oracle VM 3.0</p> <p>Affected Software:</p> <ul style="list-style-type: none"> • Oracle VM 3.0 <p>Workaround: There is currently no workaround. Oracle VM 3.0 does not support iSCSI boot.</p>

TABLE 8 Virtual Machine Software Known Issues (Continued)

CR	Description
6929991	<p>“EHCI BIOS handoff failed” Message Appears</p> <p>Issue: The "EHCI BIOS handoff failed" message appears in VMware ESX 4.0 Update 1. The failure message appears in the <code>dmesg</code> output.</p> <p>Affected Software:</p> <ul style="list-style-type: none"> • VMware ESX 4.0 Update 1 <p>Workaround: This message can be safely ignored. It does not cause any functional problems.</p>
7095810 and 7123117	<p>Hot-Unplugging HBA ExpressModule Causes Kernel Panic Hot-Unplugging NEM Causes Kernel Panic</p> <p>Issue: When running Oracle VM 3.0.1 or 3.0.2, a system kernel panic might occur when you hot-unplug one of these components:</p> <ul style="list-style-type: none"> • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, QLogic • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, Emulex • Quad Port (4x) Gigabit Ethernet Network Express Module • Sun Blade 6000 Virtualized 40 GbE Network Express Module <p>Affected Hardware and Software:</p> <ul style="list-style-type: none"> • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, QLogic (SG-XPCEFCGBE-Q8-Z) • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, Emulex (SG-XPCEFCGBE-E8-Z) • Quad Port (x4) Gigabit Ethernet Network Express Module (7284A-Z) • Sun Blade 6000 Virtualized 40 GbE Network Express Module (7100090) • Oracle VM 3.0.1 or 3.0.2 <p>Workaround: No workaround is available. Do not attempt the hot-unplug operation.</p>
6927196	<p>Oracle VM Manager 2.2 Install Fails on 6-Core CPU Configurations</p> <p>Issue: When installing Oracle VM Manager 2.2 on a Sun Blade X6270 M2 Server Module with 6-core processors (CPUs), the install might fail and exit with the message Database is not available.</p> <p>Affected Hardware and Software:</p> <ul style="list-style-type: none"> • Sun Blade X6270 M2 Server Module • Oracle VM Manager 2.2 <p>Workaround: To resolve this issue, see the patch and installation instructions at: http://oss.oracle.com/oraclevm/manager/patch</p>

TABLE 8 Virtual Machine Software Known Issues (Continued)

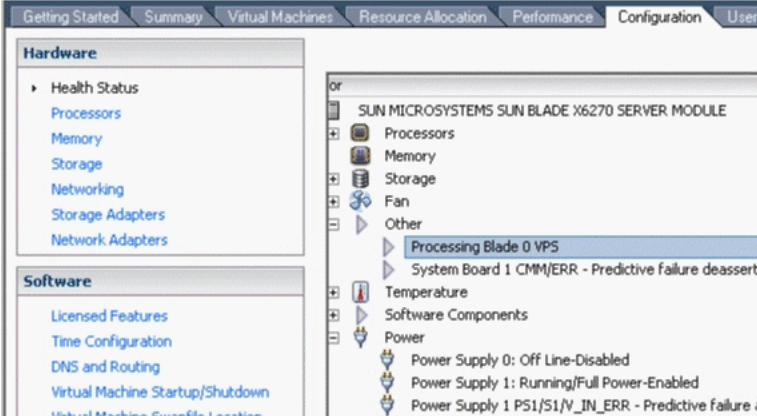
CR	Description
6779112	<p data-bbox="415 239 1233 291">Misleading Status for Power Supplies Is Reported by VMware Health Status Screen</p> <p data-bbox="415 314 479 335">Issue:</p> <p data-bbox="415 348 1233 427">The VMware Virtual Infrastructure client Health Status screen under the Power component reports the server power supplies in an Off-Line Disabled state and 0 watts, even though the power supplies are on-line and enabled.</p> <p data-bbox="415 447 615 468">Affected Software:</p> <ul data-bbox="415 479 711 499" style="list-style-type: none"> • VMware ESX 4.0 Update 1 <p data-bbox="415 522 558 543">Workaround:</p> <p data-bbox="415 557 1205 635">To view the correct power status while in the VMware Virtual Infrastructure client Health Status screen, click on the Other component from the list of available options and view the blade <i>n</i> VPS (where <i>n</i> is the blade number).</p>  <p>The screenshot shows the VMware Virtual Infrastructure client interface. The 'Hardware' tab is selected, and the 'Health Status' component is expanded. Under 'Hardware', the 'Other' component is selected, showing a tree view of system components. The 'Power' section is expanded, showing two power supplies: 'Power Supply 0: Off Line-Disabled' and 'Power Supply 1: Running/Full Power-Enabled'. The 'Power Supply 1' entry also has a sub-entry: 'Power Supply 1 PS1/S1/V_IN_ERR - Predictive failure'.</p>

TABLE 8 Virtual Machine Software Known Issues (Continued)

CR	Description
6900741	<p data-bbox="496 234 1305 262">Local Storage Drive Is Not Seen After Installing VMware ESXi 4.0 Update 1</p> <p data-bbox="496 282 558 305">Issue:</p> <p data-bbox="496 314 1305 395">If the Sun Blade X6270 M2 Server Module has a local storage drive attached to a Sun Blade RAID 0/1 RAID Expansion Module (X4607A-Z), the local storage drive is not seen by the system after installing VMware ESXi 4.0 Update 1.</p> <p data-bbox="496 416 696 439">Affected Software:</p> <ul data-bbox="496 447 796 475" style="list-style-type: none"> • VMware ESXi 4.0 Update 1 <p data-bbox="496 496 636 519">Workaround:</p> <p data-bbox="496 527 1250 581">After completing the ESXi installation, follow these steps to add the local storage drive to the storage inventory:</p> <ol data-bbox="496 590 1293 973" style="list-style-type: none"> 1. Add the ESXi host to the data center of your choice using the Virtual Infrastructure Client. 2. Select the ESXi host added in Step 1, then click the <i>Configuration</i> tab. 3. In the <i>hardware</i> box (in the upper left of the display), select <i>Storage</i>. 4. In the upper right part of the display, click the <i>Add Storage...</i> link. 5. Ensure that the <i>Disk/LUN Storage Type</i> is selected, then click <i>Next</i>. 6. Highlight the <i>vmhba</i> entry that corresponds to the local storage drive, then click <i>Next</i>. 7. Select the <i>Use free space</i> entry, then click <i>Next</i>. 8. Create a <i>Datastore Name</i> (for example, <i>local_storage</i>), then click <i>Next</i>. 9. Adjust the <i>Maximum file size</i>, if needed, then click <i>Next</i>. 10. Verify the proposed disk layout, then click <i>Finish</i>. <p data-bbox="496 982 1100 1005">The local VMFS datastore should now be available for use.</p>

Oracle Solaris Known Issues

TABLE 9 Oracle Solaris Known Issues

CR	Description
7157040	<p data-bbox="411 317 1249 378">Oracle Solaris 11 Panics at Reboot on a Sun Storage 10 GbE FCoE ExpressModule Converged Network Adapter Configuration</p> <p data-bbox="411 387 1249 595">Issue: Oracle Solaris 11 has high failure rate of kernel panic at reboot when the host is connected to a Fibre Channel over Ethernet (FCoE) switch with fibre channel storage through a Sun Storage 10 GbE FCoE ExpressModule Converged Network Adapter (SG-XPCIEFCOE2-Q-SR/SG-XPCIEFCOE2-Q-TA) configuration. "qlge:ql_quiesce+fb ()" is seen in the call trace.</p> <p data-bbox="411 604 1249 664">Affected Operating System:</p> <ul data-bbox="411 638 1249 664" style="list-style-type: none"> • Oracle Solaris 11 11/11 <p data-bbox="411 673 1249 769">Workaround: A workaround is not available. Although there is a kernel panic at reboot, the system can still boot up successfully.</p>
7009052	<p data-bbox="411 777 1249 812">DDR3 DIMMs Displayed as Unknown Type in Oracle Solaris 10</p> <p data-bbox="411 821 1249 933">Issue: If you use the <code>prtdiag</code> command in Oracle Solaris 10, the DDR3 DIMM will be displayed as unknown type. This is purely a display issue with no functional impact.</p> <p data-bbox="411 942 1249 1038">Affected Operating Systems:</p> <ul data-bbox="411 977 1249 1038" style="list-style-type: none"> • Oracle Solaris 10 10/09 • Oracle Solaris 10 9/10 <p data-bbox="411 1046 1249 1137">Workaround: A workaround is not yet available. The problem will be resolved in a future Oracle Solaris release.</p>

Oracle Linux, RHEL, and SLES Known Issues

TABLE 10 Oracle Linux, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server Known Issues

CR	Description
7076583	<p data-bbox="496 368 1315 423">RHEL 5.6 Fails to Allocate Memory Space When SR-IOV Function Is Enabled on Intel 82576 NIC</p> <p data-bbox="496 440 559 465">Issue:</p> <p data-bbox="496 475 1315 531">To support the SR-IOV function, you must first enable SR-IOV support and ARI support functions in the Advanced Menu of the BIOS Setup Utility options.</p> <p data-bbox="496 548 793 572">Affected Operating System:</p> <ul data-bbox="496 583 999 607" style="list-style-type: none"> • Red Hat Enterprise Linux (RHEL) 5.0 or above <p data-bbox="496 624 636 649">Workaround:</p> <p data-bbox="496 659 1315 715">Enable SR-IOV support and ARI support features in the Advanced Menu of the BIOS Setup Utility options.</p>
6940552	<p data-bbox="496 727 1315 751">CPU Power-State Cannot Be Capped On Host Reboots If Hard Cap Is Enabled</p> <p data-bbox="496 769 559 793">Issue:</p> <p data-bbox="496 803 1315 859">Oracle ILOM Power Management limits might not be honored when booting in Oracle Linux 5.5 or in Red Hat Enterprise Linux (RHEL) 5.5.</p> <p data-bbox="496 876 802 900">Affected Operating Systems:</p> <ul data-bbox="496 911 791 966" style="list-style-type: none"> • Oracle Linux 5.5 • Red Hat Linux (RHEL) 5.5 <p data-bbox="496 984 634 1008">Workaround:</p> <p data-bbox="496 1019 1308 1074">Using Oracle ILOM, disable then reenable Power Limiting using the following steps:</p> <ol data-bbox="496 1085 1071 1269" style="list-style-type: none"> 1. Select the Power Management tab. 2. Select the Limit tab 3. Next to the Power Limiting option, uncheck Enabled. 4. Click Save. 5. Next to the Power Limiting option, check Enabled. 6. Click Save.

TABLE 10 Oracle Linux, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server Known Issues (Continued)

CR	Description
6907462	<p data-bbox="416 265 1043 291">SLES 11 Logs Error Messages About Loading EHCA Driver</p> <p data-bbox="416 309 479 335">Issue:</p> <p data-bbox="416 343 1236 456">When using the SUSE Linux Enterprise Server 11 (SLES 11) operating system, if the OFED package group is installed, the system generates benign error messages about loading the Infiniband EHCA driver. The errors are logged because the supported Infiniband IO device does not use the EHCA driver.</p> <p data-bbox="416 473 715 499">Affected Operating System:</p> <p data-bbox="416 508 858 534">SUSE Linux Enterprise Server 11 (SLES 11)</p> <p data-bbox="416 552 554 578">Workaround:</p> <p data-bbox="416 586 1236 716">Supported Infiniband devices use the <code>mlx4_core</code> device driver. Ignore the error messages about the EHCA driver or disable attempts to automatically load the EHCA driver by editing the configuration file <code>/etc/infiniband/openib.conf</code> to change EHCA_LOAD=yes to EHCA_LOAD=no.</p>
6914173	<p data-bbox="416 737 1136 763">PCIEHP Hot-Plug Default Driver Is Not Supported by SLES 10 SP3</p> <p data-bbox="416 781 479 807">Issue:</p> <p data-bbox="416 815 1236 928">SUSE Linux Enterprise Server 10 SP3 (SLES 10 SP3) has disabled interrupts on the PCI Express root ports. As a result, <code>pciehp</code> hot-plug does not function properly with default driver options. This can result in USB devices being inadvertently disabled when hot-plug actions are attempted.</p> <p data-bbox="416 946 715 972">Affected Operating System:</p> <ul data-bbox="416 980 968 1006" style="list-style-type: none"> • SUSE Linux Enterprise Server 10 SP3 (SLES 10 SP3) <p data-bbox="416 1024 558 1050">Workaround:</p> <p data-bbox="416 1058 1068 1085">You must load the <code>pciehp</code> driver with the following parameter:</p> <p data-bbox="416 1093 665 1119"><code>pciehp_poll_mode=1</code></p> <p data-bbox="416 1128 554 1154">For example:</p> <p data-bbox="416 1163 882 1189"><code>modprobe pciehp pciehp_poll_mode=1</code></p>

TABLE 10 Oracle Linux, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server Known Issues (Continued)

CR	Description
6908037	<p data-bbox="498 265 1200 291">Infiniband Driver Unable to Use MSI-X Interrupts in SLES 10 SP3</p> <p data-bbox="498 314 561 335">Issue:</p> <p data-bbox="498 348 1315 427">The Infiniband driver <code>mlx4_core</code> in SUSE Linux Enterprise Server 10 SP 3 (SLES 10 SP3) cannot use MSI-X interrupts on systems with a high number of processors (CPUs).</p> <p data-bbox="498 447 791 468">Affected Operating System:</p> <ul data-bbox="498 479 1048 499" style="list-style-type: none"> • SUSE Linux Enterprise Server 10 SP3 (SLES 10 SP3) <p data-bbox="498 526 636 546">Workaround:</p> <p data-bbox="498 560 1239 609">Load Infiniband driver with MSI-X interrupts disabled, using one of the following methods:</p> <ul data-bbox="498 619 1268 760" style="list-style-type: none"> • Type the following command to load the driver with MSI-X interrupts disabled: <code>modprobe mlx4_core msi_x=0</code> • Add the following line to the file <code>/etc/modprobe.conf.local</code> so that <code>mlx4_core</code> will never use MSI(X) when the driver is loaded: <code>options mlx4_core msi_x=0</code>
6915768	<p data-bbox="498 782 1136 803">During a Reboot of the System, a Kernel Panic Might Occur</p> <p data-bbox="498 826 561 847">Issue:</p> <p data-bbox="498 861 1308 909">During a warm reboot of the system, you might see an intermittent kernel panic <code>_cpufreq_governor</code>.</p> <p data-bbox="498 930 801 951">Affected Operating Systems:</p> <ul data-bbox="498 961 905 1020" style="list-style-type: none"> • Oracle Linux 5.4 • Red Hat Enterprise Linux (RHEL) 5.4 <p data-bbox="498 1046 636 1067">Workaround:</p> <p data-bbox="498 1081 1250 1102">A patch has been issued to fix this issue. You can download the patch at:</p> <p data-bbox="498 1112 1308 1157">https://bugzilla.redhat.com/attachment.cgi?id=336296&action=diff</p>

Windows Known Issues

TABLE 11 Windows Known Issues

CR	Description
6914898	<p data-bbox="419 343 1158 369">Certain Express Modules Are Not Supported for Hot-Plug Operations</p> <p data-bbox="419 388 482 411">Issue:</p> <p data-bbox="419 421 1219 505">With Windows Server 2008 SP2 and 2008 R2, certain Express Modules are not currently supported for hot-plug operations. The following Express Modules cannot be hot-plugged:</p> <ul data-bbox="419 510 1208 725" style="list-style-type: none"> <li data-bbox="419 510 1169 565">• SG-XPCIE2FCGBE-Q-Z - Sun StorageTek Dual 4Gb FC Dual GbE HBA, QLogic <li data-bbox="419 571 1165 626">• SG-XPCIE2FCGBE-E-Z - Sun StorageTek Dual 4Gb FC Dual GbE HBA, Emulex <li data-bbox="419 631 1205 659">• SG-XPCIEFCGBE-Q8-Z - StorageTek Dual 8Gb FC Dual GbE HBA, QLogic <li data-bbox="419 664 1205 692">• SG-XPCIEFCGBE-E8-Z - StorageTek Dual 8Gb FC Dual GbE HBA, Emulex <li data-bbox="419 697 889 725">• X7284A-Z - Sun Quad GbE Express Module <p data-bbox="419 746 722 774">Affected Operating Systems:</p> <ul data-bbox="419 779 776 835" style="list-style-type: none"> <li data-bbox="419 779 776 807">• Windows Server 2008 SP2, 64-bit <li data-bbox="419 812 765 835">• Windows Server 2008 R2, 64-bit <p data-bbox="419 855 558 883">Workaround:</p> <p data-bbox="419 888 1190 944">Insert the affected module(s) and reboot the system in order for them to be recognized.</p>
6879304	<p data-bbox="419 963 1215 1019">System Event Log Warning Messages Are Generated When Power Is Being Limited by Oracle ILOM Power Management</p> <p data-bbox="419 1038 482 1060">Issue:</p> <p data-bbox="419 1071 1229 1263">When power is being limited by the Oracle ILOM Power Management feature, Windows Server 2008 R2 operating system will generate warning messages in the System Event Log informing the user that the processor(s) are being restricted. Example Event: The Speed of Processor xx in group x is being limited by system firmware. The processor has been in this reduced performance state for xxxx seconds since last report.</p> <p data-bbox="419 1284 714 1312">Affected Operating System:</p> <ul data-bbox="419 1317 696 1340" style="list-style-type: none"> <li data-bbox="419 1317 696 1340">• Windows Server 2008 R2 <p data-bbox="419 1361 558 1385">Workaround:</p> <p data-bbox="419 1390 1212 1418">None needed. These are expected events and are not indicative of a problem.</p>

Documentation Updates and Errata

TABLE 12 Documentation Updates and Errata

CR	Description
6977546	<p data-bbox="496 343 1158 369">SW 1.0.1 Product Documentation Lists Incorrect BIOS Version</p> <p data-bbox="496 388 561 411">Issue: The incorrect BIOS version number (08.04.01) is listed in the Sun Blade X6270 M2 Server Module product documentation for Software Release 1.0.1.</p> <p data-bbox="496 493 636 515">Workaround: Documentation has been corrected to show 08.02.01.05 as the BIOS version for Software Release 1.0.1 of the Sun Blade X6270 M2 Server Module.</p>
No CR number	<p data-bbox="496 598 911 621">Documented HBA Is Not Yet Available</p> <p data-bbox="496 644 561 666">Issue: The following host bus adapter (HBA) is listed as an available option in the <i>Sun Blade X6270 M2 Server Module Installation Guide for Windows Operating Systems</i>:</p> <ul data-bbox="496 737 1308 791" style="list-style-type: none"> • Sun Storage 6 Gb SAS RAID ExpressModule Host Bus Adapter (HBA) (SGX-SAS6-R-EM-Z) <p data-bbox="496 800 1282 852">The HBA listed above is not yet available in the Sun Blade X6270 M2 Server Module.</p>

