Sun Fire™ X2270 Server Product Notes

for Software Release 2.2.1

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Sun Fire X2270 Server Product Notes

This document contains late-breaking information and issues for the Sun Fire™ X2270 Server.

Each issue is associated with an internal change request (CR) number that is provided as a reference for Sun Service personnel. When necessary, Sun Service personnel can refer to the CR number for additional information about the issue.

Topics

Description	Link
General information	
New features in this software release	
Third-party web sites	
Resolved issues	
Known open issues	

General Information

Topics

Description	Link
Firmware available as of this supplement	"Firmware Supported in Supplemental Release 2.2.1" on page 2
Download site for firmware updates	"Firmware Updates From Sun" on page 3
Download site for latest product documentation	"Documentation for Sun Fire X2270 Server" on page 3
Support information for Sun Fire X2270 Server	"Support and Patches for Sun Fire X2270 Server" on page 3

Firmware Supported in Supplemental Release 2.2.1

TABLE 1 identifies the ILOM and BIOS firmware versions that are supported in each supplemental software release.

TABLE 1   Sun Fire X2270 Server Module Firmware Available in Supplemental Release

Supplemental Release Version	ILOM SP Firmware	BIOS Firmware
1.0	2.0.2.8	1.0
1.2	2.0.2.18	1.07
1.3	2.0.2.20	1.12
1.3.1	2.0.2.20 r49755	1.14
2.0	3.0.3.35	1.07
2.1	3.0.3.35.a	1.12
2.1.1	3.0.3.35.a r49758	1.14
2.2.0	3.0.9.18 r55822	2.03
2.2.1	3.0.9.18 r57886	2.03

Caution – Sun recommends that you *do not* downgrade the ILOM version that ships with your server. If you downgrade below the firmware version that ships with your server, you might render your system service processor inoperable and will need to contact Sun Service for resolution.

Firmware Updates From Sun

The latest ILOM and BIOS firmware is shipped installed on the Sun Fire X2270 Server. If you need to reinstall this firmware or obtain updates to this firmware, you can obtain the firmware for the Sun Fire X2270 Server at:

- http://www.sun.com/bigadmin/patches/firmware/release_history.jsp#X2270

Documentation for Sun Fire X2270 Server

Product documentation, as well as updated Product Notes for the Sun Fire X2270 Server are available at the following Sun documentation web site:

- http://docs.sun.com/app/docs/prod/sf.x2270

Tools & Drivers CD for Sun Fire X2270 Server

A Tools & Drivers CD for the Sun Fire X2270 Server is shipped with your order. This CD includes device drivers, RAID management software, and other software utilities for use with your server. If you need a copy of this CD, or require updates to the software provided on this CD, you can download the latest software on the Tools & Drivers CD for the Sun Fire X2270 Server at:

- http://www.sun.com/bigadmin/patches/firmware/release_history.jsp#X2270

Support and Patches for Sun Fire X2270 Server

Support information and patches for the Sun Fire X2270 Server are available at:

- http://sunsolve.sun.com

New Features for Sun Fire X2270 Server

The following new features are supported as of supplemental software release 1.3 and 2.1:

- "Additional Supported Operating Systems" on page 4

Additional Supported Operating Systems

The Sun Fire X2270 Server supports the following operating systems:

- **Red Hat Enterprise Linux (RHEL) 5.4**
- **SUSE Linux Enterprise Server (SLES) 10 SP3 (64-bit/XEN)**
- **VMWare ESX/ESXi 3.5 U5**
- **VMWare ESX/ESXi 4.0 U1**

For information about installing these operating systems on the Sun Fire X2270 Server, refer to the installation instructions provided in the *Sun Fire X2270 Server Linux, VMware, OpenSolaris, and Solaris Operating Systems Installation Guide* (820-5606).

Third-Party Web Sites

Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

Resolved Issues

ILOM Resolved Issues

TABLE 1   ILOM Resolved Issues as of Supplemental Release 2.2.1

CR	Description
6969114	**Web GUI Upgrade to SW 2.2.0 Resets All ILOM Settings to Defaults**
	Issue:
	Upgrading an X2270 system to firmware bundle SW 2.2.0 (ILOM 3.0.9.18 build r55822 / BIOS 2.03) using the web GUI results in the reset of all ILOM settings to defaults even if the "`preserve settings`" option is selected. This problem does not occur when the firmware is upgraded using the CLI.
	Affected Software:
	• Supplemental Release 2.2.0
	Fix Available:
	A fix is now available in Supplemental Release 2.2.1, ILOM3.0.9.18 r57886. If you have lost your IP address as a result of the update, instructions to configure the SP network using the ipmitool in the host OS can be found in the *ILOM 3.0 Documentation Collection* at http://docs.sun.com/apps/docs/prod/int.lights.mgr30#hic
	1. Install latest ipmitool released by Sun, latest version is v1.8.10.3. (Or the version with "sunoem cli" command)
	2. Open SP CLI interface with ipmitool in Host OS, then configure the SP network using the following commands:

	<pre>nsgsh-dhcp-242:~ # ipmitool -V
	ipmitool version 1.8.10.3
	nsgsh-dhcp-242:~ # ipmitool -I open sunoem cli
	Connected. Use ^D to exit.
	
	-> cd /SP/network
	cd /SP/network
	/SP/network
	
	-> set pendingipaddress=xx.xxx.xx.xxx
	set pendingipaddress=xx.xxx.xx.xxx
	
	-> set pendingipdiscovery=static
	set pendingipdiscovery=static
	
	-> set commitpending=true
	set commitpending=true</pre>

	Note - Use "`-I bmc`" in Solaris OS, but use "`-I open`" in Linux OS to specify kcs interface.

TABLE 1 ILOM Resolved Issues as of Supplemental Release 2.2.1

CR	Description
6795975	**Multiple Remote ILOM Console Sessions Might Not Work Correctly**
	Issue: When multiple ILOM Remote Console sessions are opened to the same service processor, the additional session's keyboard interface might not work. The first session's keyboard interface is not affected. **Fix Available**: Fix is now available in Supplemental Software release 2.2.0
6839546	**IPMI GUID Changes When Switching ILOM Management Between Sideband and Out-of-Band**
	Issue: When switching ILOM management between sideband and out-of-band, the IPMI GUID will change. This unexpected behavior might affect applications that use IPMI GUID for system management (for example, Sun xVM Ops Center) or for deployments that use SMBIOS UUID for server provisioning. Ensure that the ILOM configuration for sideband or out-of-band is complete prior to configuring third-party system management or server provisioning tools. **Fix Available**: Fix is now available in Supplemental Software release 2.2.0
6806444	**Sun ILOM Remote Console Might Hang on Windows Client When Redirecting a CD-ROM Image or Floppy Image**
	Issue: When using a Windows client to redirect a CD-ROM image or floppy image from the Sun ILOM Remote Console, the Sun ILOM Remote Console might not respond. **Affected Software**: • Supplemental Releases 1.2, 1.3, 2.0, 2.1 • Sun ILOM Remote Console • JDK 160 • Windows operating system installed on client system **Fix Available**: Fix is now available in Supplemental Software release 2.2.0

SIA Resolved Issues

TABLE 2   SIA Resolved Issues as of Supplemental Release 2.2.0

CR	Description
6788702	**Enhanced IDE Mode Is Not Supported With SIA**
	Issue: If you are installing Linux with Sun Installation Assistant (SIA), no disks will be found if the onboard controller is configured for Enhanced IDE mode.
	Affected Software: • Red Hat Enterprise Linux 4.7/5.3 and SUSE Linux Enterprise Server 10 SP2 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Fix Available: Fix is now available in Supplemental Software release 2.2.0

BIOS Resolved Issues

TABLE 2   BIOS Resolved Issues as of Supplemental Release 2.2.0

CR	Description
6849217	**BIOS Might Allow Security Vulnerabilities**
	Issue: Security vulnerabilities in the BIOS might allow a local privileged user that has the ability to run fully privileged code to gain access to the CPU's System Management Mode or execute arbitrary code in the BIOS.
6937671	**Selectable De-emphasis Value is 6dB in BIOS Default Setting**
	Issue: After loading Optimal Defaults in BIOS, the selectable de-emphasis value appears as 6dB. The value should be 3.5 dB. **Workaround**: Manually change the setting from 6db to 3.5db in the BIOS setup.
66894296	**BIOS 1.14 Default/Optimal Settings (Max AHCI Ports) Are Set to 4 Ports**
	Issue: Current release BIOS 1.14 has "Max Ports on SATA#1" BIOS option default/optimal settings as "4 Ports". In that setting the MB FMOD ports will be forced to operate off of the slower IDE settings and not AHCI. The default should be "6 Ports" so that the FMOD ports will operate of AHCI. **Workaround**: Fix will be available in BIOS 1.15.

Documentation Resolved Issues

CR	Description
6837590	**Update Required to Service Manual for Enabling Firmware Recovery for 2.0.2.18 or Later**
	Issue:
	The *Sun Fire X2270 Server Service Manual* (820-5607-10) needs to be updated to include instructions for Sun Service personnel to enable the recovery to ILOM firmware 2.0.2.18 or later using the ILOM Preboot Menu.
6779289	**Missing Content for ILOM Sideband Management**
	Issue:
	The ILOM Sideband Management topic in the *Sun Integrated Lights Out Manager (ILOM) 2.0 Supplement for Sun Fire X2270 Server* (820-5609-10) is missing content for Special Considerations for Sideband Management.
N/A	**Updated Installation Instructions are Required for SLES11 and VMware ESX or ESXi 3.5.**
	Issue:
	The *Sun Fire X2270 Server Linux and Solaris Operating Systems Installation Guide* (820-5606-10) does not provide installation instructions for the following operating systems: • SUSE Linux Enterprise Server (SLES) 11 • VMware ESX or ESXi 3.5

Known Open Issues

Topics

Description	Link
Hardware known issues, descriptions, and workarounds	• "Hardware Known Issues" on page 10
BIOS known issues, descriptions, and workarounds	• "BIOS Known Issues" on page 12
ILOM known issues, descriptions, and workarounds	• "ILOM Known Issues" on page 14

Hardware Known Issues

TABLE 3   Hardware Known Open Issues

CR	Description
N/A	**OK to Remove/Fault LED Label Not Supported**
	Issue: The HDD Coral brackets have a label for the OK to Remove/Fault LED.
	Affected Hardware and Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: The LEDs are not supported on the Sun Fire X2270 Server.
6790472	**Virtual CD/DVD-ROM Not Available Via Redirection in Solaris**
	Issue: When the Sun Fire X2270 Server is running Solaris and another system is connecting to a RKVM session via the X2270 SP, the virtual CD-ROM will not mount on the Solaris system until `volmgt` is stopped.
	Affected Hardware and Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: To stop `volmgt`, type the command: `/etc/init.d/volmgt stop`

TABLE 3   Hardware Known Open Issues *(Continued)*

CR	Description
6750934	**Eth1 Is Not Configured During SP Boot Up**

	Issue:
	 The following error is received during SP boot up:
	 `Setting up IP spoofing protection: rp_filter.`
	 `Configuring network interfaces...FTGMAC100:`
	 `eth1:ftgmac100_open mach/timer.c: Just lost 2 clock`
	 `interrupts.`
	 `SIOCSIFNETMASK: Cannot assign requested address <===`
	 `SIOCSIFBRDADDR: Cannot assign requested address <===`
	 `Failed to bring up eth1. <===`
	 The interface (`eth1`) will vary depending on which network port is not configured. In the above error example, `eth1` was displayed because out-of-band (OOB) management port `/SYS/SP/NET0` (`eth0`) was not configured.

	Affected Hardware and Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: None.
N/A	**DIMM and CPU LEDs Do Not Illuminate on Systems That Do Not Contain Service Processors**
	Issue: The DIMM and CPU LEDs do not illuminate to indicate an error condition in servers that do not contain a service processor. DIMM and CPU error LEDs require the optional service processor module to operate correctly.
	Affected Hardware and Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: None.
N/A	**Bottom USB Port on Motherboard Cannot Be Used**
	Issue: Due to mechanical reasons, the bottom USB port that is located internally on the chassis motherboard cannot be used.
	Affected Hardware and Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: Use the top USB port on the chassis motherboard.

TABLE 3 Hardware Known Open Issues *(Continued)*

CR	Description
6803145	**SNMPv3 Traps Are Not Received When Using MD5 Authentication**
	Issue: SNMPv3 traps are not being received when MD5 authentication is used in the server configuration. The behavior is the same when MD5 authentication is selected with DES encryption or with no (None) encryption.
	Affected Hardware and Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: None. Check for the availability of a patch for this defect.

BIOS Known Issues

TABLE 4 BIOS Known Open Issues

CR	Description
N/A	**Entering the RAID Configuration Utility**
	Issue: When configuring a system for RAID in the system BIOS, the Intel RAID utility screen that lets users access the utility might flash too quickly on the screen, causing users to miss which keys to select in order to enter the utility.
	Affected Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: If this occurs, select Ctrl + I after the initial POST screen when the system performs the memory test.
N/A	**SP Console Serial Port Inherits Host Settings**
	Issue: When the serial port is switched from the Host console (where it is sitting in the system BIOS configuration) to the SP console (where it is sitting during the login prompt), the SP console login prompt changes to all CAPS. All further characters that are typed at the console are entered as CAPS.
	Affected Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: Select Ctrl + C to return to a normal login prompt.
N/A	**Date and Time Do Not Match Between BIOS and Service Processor**
	Issue: If the SP and BIOS firmware is corrupted and then recovered, the SP and BIOS time will not match.
	Affected Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: Manually update the SP and BIOS date and time, or configure ILOM to use a network time protocol (NTP) server.

TABLE 4 BIOS Known Open Issues *(Continued)*

CR	Description
6809522	**BIOS Only Boots From the First HDD Listed in the Boot List Order**
	Issue: Using /SP/Bootlist to control the boot order via ILOM, the BIOS will only boot from the first hard disk drive (HDD) listed.
	Affected Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: If you need to boot from another HDD listed in the boot order, change the HDD to the primary boot disk in the BIOS boot order list.
6716289	**Memory Count at Startup is 8MB Short**
	Issue: In the BIOS splash screen and in the main BIOS Setup menu, the system reports 8MB less memory than installed.
	Affected Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: None. Check for the availability of a patch for this defect.

TABLE 5 ILOM Known Open Issues

CR	Description
6878145	**Kernel Panic Occurs During The ILOM Boot Process**
	Issue: **The following timeout failures occur during the ILOM boot process:** • Timeout getting 'fru_version' attribute for '/SYS/MB/BIOS' • Timeout waiting for sunservice password prompt • Timeout waiting for login prompt after reboot • Timeout waiting for SP login
	Affected Hardware and Software: SP daughter card 373-0429-01
	Workaround: Contact Sun Service and replace the SP daughter card with FRU F373-0429-02.

TABLE 5 ILOM Known Open Issues *(Continued)*

CR	Description
6800702, 6813782	**Storage Redirection Not Supported on Sun ILOM Remote Console**
	Issue: An attempt to start storage redirection might fail when using a 64-bit JRE (Java runtime environment) to launch the Sun ILOM Remote Console. Since the 64-bit JRE is the default on a 64-bit system, you might also need to download a 32-bit JRE. When using a 64-bit JRE to start storage redirection, an "Unsupported platform" error appears.
	Affected Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: Install a 32-bit JRE on the 64-bit system. JREs can be downloaded at: http://java.com/en/download/index.jsp
6937202	**`Start/Reset/SYS` Causes Several** KCS Command: Master Write Read: **Logs To Be Generated**

	Issue:
	
	 Between 1000 and 2000 KCS Command: Master Write Read: logs are generated during a system start or reset. For example:
	
	 `5947   Mon Nov 15 05:50:03 2010  Audit     Log       minor`
	 `KCS Command : Master Write Read : channel number = 0 : bus ID = 1 : bus type = private : slave address = 0x2E : read count = 0 : write data = 0x0 0x2A : success`
	 `5946   Mon Nov 15 05:50:03 2010  Audit     Log       minor`
	 `KCS Command : Master Write Read : channel number = 0 : bus ID = 1 : bus type = private : slave address = 0x3E : read count = 0 : write data = 0x0 0x3F : success`
	 `5945   Mon Nov 15 05:50:03 2010  Audit     Log       minor`
	 `KCS Command : Master Write Read : channel number = 0 : bus ID = 1 : bus type = private : slave address = 0x2E : read count = 0 : write data = 0x0 0x2E : success`
	
	 This is an expected behavior in current BIOS and ILOM implementations because it is designed to record all these transactions in the log.

	Affected Software: • Supplemental Release 2.2.0
	Workaround: If you want to see specific event logs, go to the ILOM Web browser interface and select System Monitoring->Event log, use the filter to filter out these massive events.

Solaris and OpenSolaris Known Issues

TABLE 6   Solaris and OpenSolaris Known Open Issues

CR	Description
N/A	**Hitachi 1TB HDD Does Not Come Back Online**
	Issue: When hot-plugging an Hitachi 1TB hard disk drive (HDD) on a server that is running the Solaris 10 OS, the HDD does not come back online.
	Affected Software: • Solaris 10 5/09 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: Open a terminal window and type the `cfadm -x sata_port reset` command to bring the HDD back online.
6764573	**USB KVMS Redirected Keyboard and Storage Will Not Work With Intel VT-d Enabled**

	Issue:
	 USB devices used for remote KVMS redirected keyboard and storage will not work with Intel VT-d enabled. An installation over redirected DVD might start, then hang after an IOMMU fault message is displayed on the console. The redirected USB keyboard will also hang. Other devices might be affected as well. When the failure occurs, IOMMU faults will display a message similar to:
	
	 `WARNING: dmar0,0 generated a fault event when translating`
	 `DMA read on address 0x0 for PCI(0, 26, 7), the reason is:`
	 `The Read field in a page-table entry is Clear when DMA read`
	 `WARNING: /pci@0,0/pci1028,235@1a,7 (ehci0): Unrecoverable`
	 `USB Hardware Error.`

	Affected Software: • OpenSolaris 2008.11 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2

TABLE 6   Solaris and OpenSolaris Known Open Issues *(Continued)*

CR	Description

6764573 *Continued*	**Workaround:** Perform one of the following procedures:
	 • Disable VT-d in BIOS:
	 At system start-up, press F2 after POST to enter BIOS Setup.
	 Choose Advanced tab then disable the setting for VT-d.
	 Or
	 • Disable `intel-iommu` in Solaris GRUB menu:
	 Note - Help for editing the GRUB menu is available at the bottom of each screen.
	
	 1. During installation, modify the GRUB menu by adding:
	 `-B intel-iommu=no`
	 2. When the GRUB menu appears, type '**e**' to edit then scroll to the appropriate boot entry.
	 3. Using the arrow keys, select the line that looks like this:
	 `kernel$ /platform/i86pc/kernel/$ISADIR/unix`
	 4. Press '**e**' to edit the entry.
	 5. Append `-Bintel-iommu=no` to the line so that it looks like this:
	 `kernel$ /platform/i86pc/kernel/$ISADIR/unix -Bintel-iommu=no`
	 6. Press Enter then press '**b**' to boot.
	 If you are adding this boot option to a list of existing options, note that the delimiter for boot options is a comma.
	 For example:
	 `kernel$ /platform/i86pc/kernel/$ISADIR/unix -Bconsole=`
	 `ttya,intel-iommu=no`
	 7. After the installation completes, repeat the GRUB editing step outlined above prior to boot.
	 Boot, and edit `/platform/i86pc/kernel/drv/rootnex.conf`, adding the line:
	 `intel-iommu=no`
	 8. After installation, modify:
	 `/platform/i86pc/kernel/drv/rootnex.conf`, adding `intel-iommu=no`
	 9. Rebuild the boot archive by typing:
	 `bootadm update-archive`

TABLE 6 Solaris and OpenSolaris Known Open Issues *(Continued)*

CR	Description
6794301	**Boot Disk Size Limitation**
	Issue: Solaris 10/08 will not install on a disk device that is greater than 1TB in size.
	Affected Operating Systems and Hardware: • Solaris 10 10/08 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: Install the OS on a boot device that is 1TB or smaller.

Linux Known Issues

TABLE 7 Linux Known Open Issues

CR	Description
N/A	**IPMI Service Fails to Start**
	Issue: IPMI service fails to start in RHEL 4.7 and SLES10 SP2.
	Affected Software: • Red Hat Enterprise Linux (RHEL) 4.7 and SUSE Linux Enterprise Server 10 SP2 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1

	Workaround:
	To start IPMI service:
	1. Review the dmidecode output to determine the KCS base port address.
	For example, `Base Address: 0x000000000000CA2 (I/O)`
	2. From the terminal window, type the following command, entering the base address from the previous step for *<base address>*.
	`modprobe ipmi_si type="kcs" ports=`*<base address>*`regspacing="4"`
	3. To start the IPMI service, type the following command:
	`service ipmi start`

TABLE 7 Linux Known Open Issues *(Continued)*

CR	Description
N/A	**Mouse Cursor Disappears**
	Issue: The mouse cursor disappears after running the `install.sh` script on SLES10 SP2.
	Affected Software: • SUSE Linux Enterprise Server 10 SP2 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: After running the script, restart the server by using the keyboard hot keys or a command line entry from the terminal window. Once the server restarts, the mouse cursor will reappear.
N/A	**Mouse Moves Erratically During SLES10 SP2 Installation**
	Issue: The mouse experiences erratic movements during the SLES10 SP2 installation.
	Affected Software: • SUSE Linux Enterprise Server 10 SP2 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: Log in to ILOM, navigate to the Remote Control --> Mouse Mode Settings tab. From the `Mouse Mode` drop-down list, select `Relative`.

Windows Known Issues

TABLE 8 Windows Known Open Issues

CR	Description
6783673	**Windows Server 2008 Might Require Hotfix for PCI Express Bus Driver**
	Issue: Microsoft has an updated PCI bus driver for PCI Express that addresses a potential bug where the Max Payload Size might be configured incorrectly on the PCI Express root port if the root port is disabled and then re-enabled.
	Affected Software: • Windows Server 2008 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: There is a Knowledge Base Article (http://support.microsoft.com/kb/952681) that has a link to a hotfix, which the end-user can download if the problem is encountered in the field. The problem should be addressed when Service Pack 2 is released.
6783538	**Windows Server 2008 Displays a Blue Screen Error if the X4237A IB Adapter Card Is Disabled**
	Issue: If the X4237A Infiniband (IB) Host Channel Adapter card is disabled in the Windows Device Manager, Windows Server 2008 stops in a Blue Screen with a `Bug Check 0x122 - General WHEA Error` indicated.
	Affected Software: • Windows Server 2008 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: Do not disable the X4237A card in Windows Device Manager. If the card is disabled causing the Blue Screen and error, reboot the system to recover. The X4237A card will be enabled upon reboot. Check for the availability of a patch for this defect.

TABLE 8   Windows Known Open Issues *(Continued)*

CR	Description
N/A	**Windows Server 2003 Installation Requires a Boot Driver**
	Issue: If installing Windows Server 2003 32/64-bit in AHCI mode, a boot driver is required.
	Affected Software: • Windows Server 2003 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: The floppy driver/floppy image can be located on the Sun Fire X2270 Server Tools & Drivers CD.
N/A	**Windows Server 2008 Detects Disk Ordering Differently**
	Issue: If installing Windows Server 2008 OS, the OS will detect the disk ordering differently than the BIOS when in AHCI mode.
	Affected Software: • Windows Server 2008 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: Install the AHCI driver from the Tools & Drivers CD prior to partitioning the disk during the Windows OS installation. Once the updated AHCI driver is installed, the disk layout will be detected correctly. For instructions on installing the AHCI driver, see the *Sun Fire X2270 Server Windows Operating System Installation Guide* (820-7143).

Sun Installation Assistant Known Issues

TABLE 9 Sun Installation Assistant (SIA) Known Open Issues

CR	Description
6956659	**SIA 2.3.18.0: Incorrect Driver Information Messages in OS Installation Completed Page**
	Issue: During installation of SIA 2.3.18.0, the following message appears: `Installing tpm,csc,drivers... completed` The tpm driver is only for Windows 2003.
	Affected Software: • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1, 2.2
	Workaround: The tpm messages will be removed from non-Windows 2003 pages in the next release.

TABLE 9 Sun Installation Assistant (SIA) Known Open Issues *(Continued)*

CR	Description
6796419	**OS Will Not Boot if Installing SLES With SIA in IDE Mode**
	Issue: If you are installing SLES 10 SP2 with Sun Installation Assistant (SIA) and the onboard controller is configured in IDE mode, the OS will not boot after installation.
	Affected Software: • SUSE Linux Enterprise Server 10 SP2 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: Choose one of the following workarounds: • Install SLES 10 SP2 without the use of the Sun Installation Assistant. • Do not use IDE mode for the onboard controller. Instead, use the default AHCI mode. • If you must use IDE mode, manually edit the GRUB menu by performing the following procedure: 1. During the installation, choose the OS you want to boot. 2. In the Boot Options field, add the following: **root=/dev/sda2 resume=/dev/sda1** 3. To make these changes permanent, do the following: a. After the OS is started, modify the GRUB menu by typing the following command in a terminal window: **vi /boot/grub/menu.1st** b. Modify the root= entry in the kernel line for GRUB menu entries: title Linux title Failsafe with the following: **root=/dev/sda2** Note that the root= entry will be similar to the following: root=/dev/diskby-id/ata-SEAGATE_STN7250SBSUN500G_0703C0MRBS_5QG0MRBS-part2 Similarly, change the resume= entry from resume=/dev/hda1 to **resume=/dev/sda1** c. Save /boot/grub/menu.1st by typing the following command: **:wq**

TABLE 9 Sun Installation Assistant (SIA) Known Open Issues *(Continued)*

CR	Description
6821555	**SIA Allows Windows Server 2003 32-bit R2 to Be Installed**
	Issue: Sun Installation Assistant allows Windows Server 2003 32-bit R2 to be installed on the server. SIA should only allow the SP2 version of the OS to be installed on the server, that is, Windows Server 2003 32-bit R2 SP2.
	Affected Software: • Windows Server 2003 • Supplemental Releases 1.0, 1.2, 1.3, 2.0, 2.1
	Workaround: None.