Sun Netra X4270 Server

Product Notes

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Product Notes

This document contains late-breaking information about Oracle's Sun Netra X4270 server. This document is written for system installers and enterprise administrators who have experience installing, configuring and maintaining similar systems.

This document contains the following sections:

Documentation, Support, and Training

These web sites provide additional resources:

- Documentation
  http://www.oracle.com/technetwork/indexes/documentation/index.html
- Support http://www.oracle.com/suport
- Training http://education.oracle.com

Note – Information in these product notes supplements and supersedes the information in the Sun Netra X4270 documentation set.

Supported Operating Systems and Sun System Firmware

The server is preinstalled with the OS, patches, and firmware, but you can install the same or another supported version. Be aware that some versions of the OS require installation of mandatory patches. See "Patch Information" on page 4.

If you install the OS, you will not have access to the additional software that was preinstalled at the factory. See "Preinstalled Software" on page 3.

Supported Operating Systems

The following operating systems are supported on the Sun Netra X4270 server:

- Oracle ® Solaris 10 10/09 (U8)
- Oracle Solaris 10 5/10 (U9)
- Windows Server 2008 R2 (64-bit)
- Novell SLES 10 SP3
- Novell SLES 11 SP1
- RedHat Enterprise Linux 5.5 (64-bit)
- RedHat Enterprise Linux 6.0 (64-bit)
- VMWare ESX 4.0 and ESXi 4.0 Update 1
- Oracle Linux 5 U4 (64-bit)
- Oracle Linux 5 U5 (64-bit)
- Oracle Linux 6 (64-bit)
- Oracle Virtual Machine 2.2.1

About System Firmware

The System Firmware controls various aspects of the host and the service processor. The System Firmware comprises the following individual firmware components:

- Integrated Lights Out Manager (ILOM) firmware

System firmware updates are available from Oracle (https://support.oracle.com) as patch releases. When you update the system firmware, all of the individual firmware components are updated. With the exception of the SAS controller firmware, you cannot update firmware components individually. Refer to the *Sun Netra X4270 Server Installation and Setup Guide* for more information about updating the server firmware.

Supported Firmware Versions

The following ILOM and BIOS firmware are supported:

■ **Software v. 1.1** – ILOM Firmware 3.0.14.11; BIOS 14.01.02.10

Preinstalled Software

This section lists and describes the software preinstalled on the server. The preinstalled software is ready to use.

Note – The Oracle Solaris OS is preinstalled both in root disk Slice 0 for normal operations, and in Slice 3 along with Live Upgrade software to provide an Alternate Boot Environment (ABE). The ABE allows upgrading the OS or performing system maintenance tasks without reducing performance. An identical (bootable) copy of the root partition (including the OS, and applications) is installed as an ABE in Slice 3.

The following table lists the software preinstalled on the server.

TABLE: Preinstalled Software

Software	Location	Function
Oracle Solaris 10 10/09	Root disk Slice 0 (and on Slice 3 in the ABE) with patches (see "Patch Information" on page 4)	Operating system
CMT Tools 1.2	`/opt/sunstudio12.1/bin` `/opt/sunstudio12.1/prod/bin`	Sun Studio Developer Tools
Sun Code Generator for SPARC Systems 4.3.2	`/opt/gcc` and `/opt/SUNW0scgfss`	GCC compiler for SPARC Systems

Oracle Solaris Live Upgrade

Oracle Solaris Live Upgrade technology significantly reduces service outage during an OS upgrade. This technology enables the Oracle Solaris OS to run normally during an upgrade or normal maintenance on an inactive boot environment.

The server is configured with a `liveupgrade` partition on Slice 3 on the boot disk that contains an exact duplicate of the `root` partition (including the OS, Enterprise Installation Services (EIS), and applications). This `liveupgrade` partition is an Alternate Boot Environment (ABE).

Oracle Solaris Live Upgrade software is preinstalled on the server. It might be necessary to install a different version of Oracle Solaris Live Upgrade depending on which Oracle Solaris OS version you are installing or upgrading.

For more information about Oracle Solaris Live Upgrade, go to:

(http://www.oracle.com/technetwork/systems/)

Supported Oracle Explorer Utility Version

The Sun Netra X4270 server is supported by the Oracle Explorer Data Collector 5.12 (or later) data collection utility, but is not supported by earlier releases of the utility. Installing Oracle Cluster or Sun Net Connect software from the preinstalled Java ES package could automatically install an earlier version of the utility on the system. After installing any of the Java ES software, determine whether an earlier version of the Oacle Explorer product has been installed on the system by typing the following:

```
# pkginfo -l SUNWexplo
```

If an earlier version exists, uninstall it and install version 5.12, or later. To download Oracle Explorer Data Collector 5.12, go to:

(http://www.oracle.com/support)

Patch Information

Patches are available at

(http://www.oracle.com/support)

Patches for Option Cards

If you add option cards to the server, refer to the documentation and README files for each card to determine if additional patches are needed.

Managing Power Use by Idle Disk Drives

Oracle's Sun Sun Netra X4270 server supports Oracle Solaris OS disk power management features. To learn how to use these features, visit the Oracle Support website:

(http://www.oracle.com/support)

The article, *Managing the Power Used by Idle Disks in Servers Running the Oracle Solaris 8 OS or Above*, describes when and how to manage the power used by idle disks on servers running the Oracle Solaris 8 OS and above.

Issues and Errata

This section includes late-breaking product issues and documentation errata.

Faulty DIMM Can Cause Loss of Entire Channel

CR 6964342

When a single DIMM is marked as faulty by ILOM (for example, `fault.memory.intel.dimm.training-failed` is listed in the SP Event Log), BIOS might map out as faulty the entire memory channel—up to three DIMMS—that contains the faulty DIMM. As a result, the memory available to the operating system is reduced. However, when you press Fault Remind button on the motherboard, only the fault LED associated with the faulty DIMM is illuminated. The fault LEDs for the other two DIMMs in the memory channel remain off.

When you replace the faulty DIMM and clear DIMM fault using ILOM, the memory available to the operating system returns to normal. For instructions for clearing DIMM faults, see the *Oracle Integrated Lights Out Manager (ILOM) 3.0 Supplement for the Sun Netra X4270 Server.*

MegaRAID Mouse Pointer Does Not Work in ILOM Remote Console

CR 6979217

When using the ILOM remote console, the mouse pointer only moves veritcally and horizontally on the left and top sides of the a LSI MegaRAID BIOS Utility session.

Workarounds:

1. Use the **relative** ILOM Mouse Mode setting.

2. Use the keyboard to navigate the window. Use the **Tab** key to nagivate between fields.