

## Netra SPARC T4-1 Server Product Notes

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# Contents

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<b>Using This Documentation</b> .....	7
<b>1 Late-Breaking Information</b> .....	9
General Notes .....	9
16 GB Dual-Rank DIMMs and System Firmware .....	9
Preinstalled Software .....	10
Supported Oracle Solaris OS and Firmware Information .....	10
OS Package and Patch Updates .....	11
Oracle Solaris 11 OS Package Updates .....	11
Patch Updates for Oracle Solaris 10 8/11 .....	12
Downloading Patches and Software Updates .....	13
▼ Download Patches .....	13
▼ Download Software Updates .....	13
PCIe Card Installation Rules .....	14
Slot Restrictions for Certain Cards .....	14
PCIe Card Cable Restrictions .....	15
<b>2 Known Product Issues</b> .....	17
Hardware Issues .....	17
Oracle ILOM Remote Console Video Redirection Not Supported .....	17
Direct I/O Support .....	17
Downloading sas2ircu Documentation for SPARC T4 Servers .....	18
Sun Type 6 Keyboards Are Not Supported by SPARC T4 Series Servers .....	18
SPARC T3 and T4 Platforms Might See Dropped or Doubled Character Input From USB Keyboards (Bug ID 15700526, Bug ID 15728507, CR 7067025) .....	18
L2 Cache UEs Are Sometimes Reported as Core Faults Without Any Cache Line Retirements (Bug ID 15731176, CR 7071237) .....	20
Upon a Reboot After an Unrecoverable Hardware Error, CPUs Might Not Start (Bug ID 15733431, CR 7075336) .....	21
Oracle Solaris OS Issues .....	21

Spurious Error Message During Initial Oracle Solaris OS Installation (Bug ID 15658412, CR 6971896) .....	21
When <code>diag-switch?</code> Is Set to <code>true</code> , Oracle Solaris OS Fails to Update EEPROM for Automatic Rebooting (Bug ID 15666767, CR 6982060) .....	22
The <code>cfgadm</code> Command Fails for Certain HBAs (Bug ID 15715604, CR 7044759) .....	23
Firmware Issues .....	24
<code>e1000g</code> Driver Generates Spurious <code>ereports</code> When Installing Oracle Solaris OS Over a Sun PCIe Dual Gigabit Ethernet Adapter (Bug ID 15647420, CR 6958011) .....	24
Units Used to Define the MIB Power Management Time Limit Are Reported in Seconds (Bug ID 15675720, CR 6993008) .....	25
Blue OK-to-Remove LED on Drive Does Not Light When the Drive Is Ready to Remove (Bug ID 15737491, CR 7082700) .....	25
Timestamp for an Oracle ILOM Fault/Critical Event Might Be Off by One Hour (Bug ID 15802097, CR 6943957) .....	25
<code>reboot disk</code> Command Occasionally Fails When <code>disk</code> Argument Picks Up Extra Characters (Bug ID 15816272, CR 7050975) .....	26

## Using This Documentation

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- **Overview** – Provides late breaking information about the Netra SPARC T4-1 Server from Oracle
- **Audience** – Technicians, system administrators, and authorized service providers
- **Required knowledge** – Advanced experience troubleshooting and replacing hardware

## Product Documentation Library

Late-breaking information and known issues for this product are included in the documentation library at [http://www.oracle.com/pls/topic/lookup?ctx=Netra\\_SPARCT4-1](http://www.oracle.com/pls/topic/lookup?ctx=Netra_SPARCT4-1)

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# ◆◆◆ CHAPTER 1

## Late-Breaking Information

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These product notes contain important and late-breaking information about Oracle's Netra SPARC T4-1 server.

- [“General Notes” on page 9](#)
- [“Preinstalled Software” on page 10](#)
- [“Supported Oracle Solaris OS and Firmware Information” on page 10](#)
- [“OS Package and Patch Updates” on page 11](#)
- [“Downloading Patches and Software Updates” on page 13](#)
- [“PCIe Card Installation Rules” on page 14](#)

## General Notes

This section contains general notes related to the current release of the server.

### 16 GB Dual-Rank DIMMs and System Firmware

16 GB dual-rank (2Rx4) DIMMs are now available from Oracle for the Netra SPARC T4-1 server. Until now, only the 16 GB quad-rank DIMMs were supported.



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**Caution** - The 16 GB dual-rank (2Rx4) DIMMs can not be mixed with the 16 GB quad-rank (4Rx4) DIMMs on the server. Your service representative can help determine the type of 16 GB DIMMs in your server.

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System firmware version 8.2.1.b or newer is required for use with the 16 GB dual-rank (2Rx4) DIMMs. The system firmware 8.2.1.b is available for download from My Oracle Support at: <http://support.oracle.com/>

See [“Download Software Updates” on page 13](#) for instructions.

Also refer to the *Netra SPARC T4-1 Server Service Manual* for DIMM guidelines and installation instructions.

## Preinstalled Software

The preinstalled Oracle software is installed on a ZFS file system as described in the following table.

Software	Location	Function
Oracle Solaris 11.1 OS	Root disk Slice 0 (and on Slice 3 in the ABE)	Operating system
Oracle VM Server for SPARC	/opt/SUNWldm	Manages logical domains
Electronic Prognostics	/opt/ep	Provides early warning of the potential for specific FRU faults
System firmware 8.2.2.x or later	Service processor Host processor	Oracle ILOM operations All other firmware operations

**Note** - In addition to reading the product notes for your server, always review the latest version of the Oracle Solaris OS release notes when installing or using the server. The release notes provide important installation, runtime, and update information that you should consider when installing or running the Oracle Solaris OS. The release notes also list the known OS problems and provide workarounds when available.

Find the release notes for your version of the OS at: [http://www.oracle.com/technetwork/documentation/index.html#sys\\_sw](http://www.oracle.com/technetwork/documentation/index.html#sys_sw)

## Supported Oracle Solaris OS and Firmware Information

Software	Supported Versions
Host OS (preinstalled or installed by customer)	Oracle Solaris 11.1 OS
Host OS (installed by customer)	<ul style="list-style-type: none"> <li>■ Oracle Solaris 11 OS or later</li> <li>■ Oracle Solaris 10 8/11 (Must install the patches listed in “<a href="#">Patch Updates for Oracle Solaris 10 8/11</a>” on page 12.)</li> <li>■ Solaris 10 9/10 OS with the Solaris 10 8/11 SPARC Bundle, followed by the patches listed in “<a href="#">Patch Updates for Oracle Solaris 10 8/11</a>” on page 12.</li> <li>■ Solaris 10 10/9 OS with the Solaris 10 8/11 SPARC Bundle, followed by the patches listed in “<a href="#">Patch Updates for Oracle Solaris 10 8/11</a>” on page 12.</li> </ul>
System firmware	8.1.3.d and newer (Includes Oracle ILOM.)

## OS Package and Patch Updates

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**Note** - You should install the latest patches or package updates available for the version of the Oracle Solaris OS installed on your system.

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### Oracle Solaris 11 OS Package Updates

Updates to Oracle Solaris 11 are provisioned using package updates called Support Repository Updates (SRUs) instead of patches. SRUs are part of a new OS provisioning scheme called the Image Packaging System (IPS).

To determine the package version of the Oracle Solaris 11 OS installed on your system, run the `pkg info kernel` command and then interpret the FMRI value displayed in the output. For example:

```
# pkg info kernel
Name: system/kernel
Summary: Core Kernel
Description: Core operating system kernel, device drivers and other modules.
Category: System/Core
State: Installed
Publisher: solaris
Version: 0.5.11
Build Release: 5.11
Branch: 0.175.0.2.0.2.1
Packaging Date: Wed Oct 19 07:57:11 2011
Size: 17.99 MB
FMRI: pkg://solaris/system/kernel@0.5.11,5.11-0.175.0.2.0.2.1:
      20111128T20503
```

Then evaluate the following three fields in the FMRI value:

- 175 —??? The value 175 indicates that the system has Oracle Solaris 11 OS installed. This value is a constant for Oracle Solaris 11.
- 0 — The first field to the right of “175” indicates the update release. In this example, there have been no updates to the initial release.
- 2 — The next field contains the SRU value. In this example, the second patch bundle (called SRU2) has been installed on Oracle Solaris 11, update 0.

You can ignore the other fields in the FMRI package description.

When you know which version of the OS is installed, you can access a list of all the packages contained in that release from the following web page:

<http://pkg.oracle.com/solaris/release/en/index.shtml>

To list the packages contained in a particular Oracle Solaris 11 release, select that release in the Release and Branch pull-down menu and press the Browse button. Or you can search for individual packages in the Search For window.

## Patch Updates for Oracle Solaris 10 8/11

Install the patches listed before using the server with the Oracle Solaris 10 8/11 OS.

- 147440-25
- 147159-08
- 147707-10
- 147507-04 (If Oracle VM Server for SPARC is installed.)
- 147289-05 (System firmware 8.1.4.e)

In addition to installing the minimum required patches listed, you should download and install “Recommended OS Patchset Solaris 10 SPARC”. This patchset contains Oracle Solaris 10 OS patches that address current Sun Alerts.

If you want to use an earlier version of the Oracle Solaris OS, you must install the Solaris 10 8/11 SPARC Bundle. After installing the Solaris 10 8/11 SPARC Bundle, you must then install the required patches listed. See “[Downloading Patches and Software Updates](#)” on page 13.

If your system is currently running Oracle Solaris 10, you can find its patch level with the commands `showrev(1M)` and `uname(1)`. This is shown in the following example:

```
# showrev
Hostname: *****
Host id: *****
Release: 5.10
Kernel architecture: sun4v
Application architecture: sparc
Hardware provider: Sun_Microsystems
Domain: Ecd.East.Sun.COM
Kernel version SunOS 5.10 Generic_142909-17
# uname -a
SunOS ***** Generic_142909-17 sun4v sparc sun4v
# showrev -p | tail -3
Patch: 143525-01 Obsoletes: Requires: 118833-36, 127127-11 Incompatibles:
    Packages: SUNWcsu
Patch: 143125-01 Obsoletes: 138079-01 138089-01 Requires: 120011-14
    Incompatibles: Packages: SUNWcsu
Patch: 121557-01 Obsoletes: Requires: Incompatibles: Packages: SUNWpiclu
#
```

## Downloading Patches and Software Updates

Patches and software updates are provided on the My Oracle Support site at: <http://support.oracle.com/>

### ▼ Download Patches

To download the patches from My Oracle Support, follow this procedure.

1. **Select a language and click the Sign In button.**
2. **Type your username and password, and click the Go button or press the Return or Enter key.**
3. **Click the Patches & Updates tab.**  
The Patch Search menu is displayed.
4. **In the Patch Name or Number field, type the patch number or type patch numbers separated by a comma.**
5. **Click the Search button.**
6. **Check the box next to the each patch and select Download from the pop-up menu.**  
Refer to the patch README for installation instructions.

### ▼ Download Software Updates

To download the software from My Oracle Support, follow this procedure.

1. **Select a language and click the Sign In button.**
2. **Type your username and password, and click the Go button or press the Return or Enter key.**
3. **Click the Patches & Updates tab.**  
The Patch Search menu is displayed.
4. **In the Patch Search menu, click Product or Family (Advanced Search). In the Products field, type Netra SPARC T4-1.**  
In the drop-down menu, the Netra SPARC T4-1 is displayed.

5. **In the Release menu, click the arrow next to the desired Netra SPARC T4-1 release.**
6. **For the platform, leave the left menu set at Platform and select the desired Platform (for example, Oracle Solaris on SPARC 64-bit) on the right menu.**
7. **(Optional) Check the Exclude Superseded Patches box.**
8. **Click the Search button.**
9. **Check the box next to the desired patches and select Download from the pop-up menu.**

Refer to the software README for installation instructions.

## PCIe Card Installation Rules

There are 5 PCIe slots in the Netra SPARC T4-1 system: PCIe slots 0, 1, 2, 3, and 4. PCIe card slot 0 and slot 1 are shared with XAIU cards and can be populated with either PCIe cards or XAIU cards. Slots 0, 1 and 2 support only low profile PCIe cards. Slots 3 and 4 support both low profile and full height/half length PCIe cards.

To optimize cooling and performance, follow these card installation rules:

- Low profile PCIe cards should be installed into slot 0 first, then slots 1, 2, 3 and finally slot 4. If XAIU cards are installed in slot 0 and 1, the low profile PCIe cards should be installed into slot 2 first, then slot 3, and finally slot 4.
- The full height/half length cards should be installed into slot 3 first, then slot 4.

## Slot Restrictions for Certain Cards

Some optional I/O cards are restricted to specific I/O slots to meet system cooling requirements. Other I/O cards provide better performance when installed in particular slots. The below table lists these slot requirements.

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**Note** - This table lists only I/O cards that have specific slot or quantity restrictions or other requirements. It does not list I/O cards that are supported by the server but are not subject to slot or quantity restrictions.

---

Description	Part Number	Maximum	Restrictions
XAIU Cards			

Description	Part Number	Maximum	Restrictions
10 GbE XFP XAUI adapter card	SE3X7XA1Z	2	Slots 0 and 1 only. Use slot 0 first, then slot 1.
<b>Network Interface Cards</b>			
Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, MMF	7100481	4	
Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP	7100477	4	Slots 0, 1, or 2 only. <sup>†</sup> <b>Note</b> - See “PCIe Card Cable Restrictions” on page 15.
Sun Dual Port 10GBase-T Adapter	7100488	2	<b>Note</b> - See “PCIe Card Cable Restrictions” on page 15.
Sun x8 PCI-Express Quad Gigabit Ethernet Cards	X4447A-Z-N	2	
Dual-Port 10 Gigabit-Ethernet PCIe 2.0 Copper/Fiber SFP+	X1109A-Z	2	
<b>Fibre Channel Host Bus Adapters</b>			
8Gb Dual-Port Fibre Channel PCI-Express, QLogic	SG-XPCIE2FC-QF8-N	3	
8Gb Dual-Port Fibre Channel PCI-Express, Emulex	SG-XPCIE2FC-EM8-N	3	
<b>SAS Host Bus Adapters PCI-E</b>			
Sun Storage 6 Gb SAS PCIe RAID HBA, Internal	SGX-SAS6-R-INT-Z	1	Slot 0 only. <b>Note</b> - See “PCIe Card Cable Restrictions” on page 15.
Sun Storage 6 Gb SAS PCIe HBA, External	SGX-SAS6-EXT-Z	2	

<sup>†</sup>Required to meet NEBS level 3 compliancy.

## PCIe Card Cable Restrictions

- The Sun Dual Port 10GBase-T Adapter, formerly known as the Sun Dual Port 10 GbE PCIe 2.0 Low Profile Adapter, Base-T, requires the use of shielded interface cables that are grounded at both ends to meet NEBS level 3 compliancy.
- The Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP requires the use of shielded interface cables that are grounded at both ends to meet NEBS level 3 compliancy.
- The Sun Storage 6 Gb SAS PCIe RAID HBA, Internal PCIe card requires the Oracle SAS cable 596-7758-01 and must be installed in PCIe slot 0.





## Known Product Issues

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The following issues that are known to affect Oracle's Netra SPARC T4-1 servers at the time of this release.

- “Hardware Issues” on page 17
- “Oracle Solaris OS Issues” on page 21
- “Firmware Issues” on page 24

### Hardware Issues

This section describes issues related to the Netra SPARC T4-1 server components.

#### Oracle ILOM Remote Console Video Redirection Not Supported

The Oracle ILOM Remote Console supports two methods of redirection: video and serial console. Video redirection is not supported on Netra SPARC T4-1 servers.

#### Direct I/O Support

Only certain PCIe cards can be used as direct I/O endpoint devices on an I/O domain. You can still use other cards in your Oracle VM Server for SPARC environment, but they cannot be used with the Direct I/O feature. Instead, you can use these cards for service domains and for I/O domains that have entire root complexes assigned to them.

For the most up-to-date list of supported PCIe cards, refer to:

<https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&doctype=REFERENCE&id=1325454.1>

## Downloading sas2ircu Documentation for SPARC T4 Servers

To download sas2ircu documentation for SPARC T4-1 and T4-2, and Netra SPARC T4-1 and T4-2 servers from the current LSI web site, use link labeled SPARC T3 and T4 series support. The firmware and documentation are the same for both sets of servers.

You can download the sas2ircu documentation from LSI at:

[http://www.lsi.com/sep/Pages/oracle/sparc\\_t3\\_series.aspx](http://www.lsi.com/sep/Pages/oracle/sparc_t3_series.aspx)

## Sun Type 6 Keyboards Are Not Supported by SPARC T4 Series Servers

Sun Type 6 keyboards cannot be used with SPARC T4 series servers.

## SPARC T3 and T4 Platforms Might See Dropped or Doubled Character Input From USB Keyboards (Bug ID 15700526, Bug ID 15728507, CR 7067025)

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**Note** - This issue was originally listed as CR 7067025.

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On Oracle's SPARC T3, T4, Netra T4-1 and Netra T4-2 servers, all USB ports/connectors available to users are connected to an internal USB 2.0 (ehci) controller through an onboard USB 2.0 hub.

When a full/low speed USB 1.0/1.1 keyboard and mouse are connected to a USB port through this USB 2.0 hub, keyboard input might drop characters or might display double characters.

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**Note** - These errors occur when the ehci (USB 2.0) driver fails to detect keystrokes and mouse control input due to USB "Missed Micro-Frame" errors.

---

**Workaround:** Currently, a workaround has been implemented for this issue where an internal USB hub is manually bound to the ohci (USB 1.0/1.1) driver. This binding causes a variable named ehci\_forced\_port\_to\_companion to instruct the ehci (USB 2.0) driver to transfer ownership of a specific port on the USB controller to the ohci (1.0/1.1) driver. Once the ohci driver is bound to a particular port on the USB controller, the ohci driver will also be used by the internal USB hub connected to that port and all USB connectors on that hub.

This workaround is available in the following forms:

- Oracle Solaris 11 OS – Oracle Solaris 11 Support Repository Update 3 (SRU3)
- Oracle Solaris 10 8/11 – Patch 147004-03

For earlier supported versions of Oracle Solaris 10, apply the Solaris 10 8/11 SPARC Bundle, followed by patch 147004-03.

---

**Note** - As a general practice, you should download and install all the latest available patches (for Oracle Solaris 10 OS) or latest SRU package (for Oracle Solaris 11 OS). To download Oracle Solaris patches and/or SRU packages, go to <http://support.oracle.com>

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## Supplementary Notes

On T3-1, T4-1, T3-2, T4-2, Netra T4-1 and Netra T4-2, the rear USB connectors as well as the virtual keyboard, virtual mouse, virtual CD-ROM, and virtual USB ethernet connection to the service processor (a.k.a RKVMS) are all beneath a hub connected to port 2 on the USB controller.

The front USB connectors are connected through a hub to port 4 of the USB controller.

Likewise, on the T3-4 and T4-4 platforms, the rear USB connector is beneath a hub that is connected to port 3 of the USB controller and the front USB connector and the virtual mouse, keyboard, CD-ROM and virtual USB ethernet connection to the service processor are beneath a hub that is connected to port 2 of the USB controller.

To use a physical keyboard and mouse with this workaround, apply the fix (either patch 147004-03 or SRU3) and then perform the following recommended steps:

- On SPARC T3-1, T4-1, T3-2, T4-2, Netra T4-1, and Netra T4-2 systems:
  1. Connect the input devices to a *front* USB connector.
  2. Add the following line to `/kernel/drv/ehci.conf`:

```
ehci-port-forced-to-companion = 4
```
  3. Reboot.
- On SPARC T3-4 and T4-4 systems:
  1. Connect the input devices to a *rear* USB connector.
  2. Add the following line to `/kernel/drv/ehci.conf`:

```
ehci-port-forced-to-companion = 3
```
  3. Reboot.

To use a physical keyboard and mouse with this workaround, first apply the fix (either patch 147004-03 for Oracle Solaris 10 or SRU3 for Oracle Solaris 11) and then add the following line to `/kernel/drv/ehci.conf` and reboot:

```
ehci-port-forced-to-companion = 2
```

All other devices connected to the hub that services the virtual keyboard and mouse will be forced to operate at the lower USB 1.0/1.1 speed. These include:

- The virtual USB ethernet connection to the service processor.
- The physical USB connectors:
  - Rear connectors on the T3-1, T4-1, T3-2, T4-2, Netra T4-1, and Netra T4-2 servers.
  - Front connectors on the T3-4 and T4-4 servers.

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**Note** - If you use the virtual keyboard and mouse with this workaround, some devices connected to the hub, such as a Virtual CD-ROM and Ethernet over a USB connection to the service processor, may not come up properly following a reboot.

---

When these devices do not come up, messages similar to the following will be displayed on the console and written to system logs:

```
WARNING: /pci@400/pci@2/pci@0/pci@f/pci@0/usb@0,1/hub@1/hub@3 (hubd4):  
Connecting device on port 2 failed
```

```
WARNING: /pci@400/pci@2/pci@0/pci@f/pci@0/usb@0,1/hub@1/hub@3 (hubd4):  
Connecting device on port 3 failed
```



---

**Caution** - At this time, there is no fix or workaround for the failure of these devices to come up when the missing micro-frame workaround is configured to support a virtual keyboard and mouse.

---

For this reason, you should limit use of following USB ports when using virtual keyboard and mouse functionality:

- Rear USB connectors on the T3-1, T4-1, T3-2, T4-2, Netra T4-1, and Netra T4-2
- Front USB connectors on the T3-4 and T4-4

All other virtual devices (such as virtual keyboard and virtual mouse) will continue to function, but will be limited to operating at the lower speed.

## L2 Cache UEs Are Sometimes Reported as Core Faults Without Any Cache Line Retirements (Bug ID 15731176, CR 7071237)

---

**Note** - This issue was originally listed as CR 7071237.

---

When a processor cache line encounters an uncorrectable error (UE) the fault manager is supposed to attempt to retire the cache line involved in the error. Because of this defect, the fault manager might not retire the faulty cache line and instead reports the entire chip as faulted.

**Workaround:** Schedule a replacement of the FRU containing the faulty component. For additional information about UEs in processor cache lines, search for message ID SUN4V-8002-WY on My Oracle Support site: <http://support.oracle.com>

---

## Upon a Reboot After an Unrecoverable Hardware Error, CPUs Might Not Start (Bug ID 15733431, CR 7075336)

---

**Note** - This issue was originally listed as CR 7075336.

---

In rare cases, if the server or sever module experiences a serious problem that results in a panic, when the server is rebooted, a number of CPUs might not start, even though the CPUs are not faulty.

Example of the type of error displayed:

```
rebooting...
Resetting...

ERROR: 63 CPUs in MD did not start
```

**Workaround:** Log into Oracle ILOM on the SP and then power cycle by typing:

```
-> stop /SYS
Are you sure you want to stop /SYS (y/n)? y
Stopping /SYS
-> start /SYS
Are you sure you want to start /SYS (y/n) ? y
Starting /SYS
```

## Oracle Solaris OS Issues

This section describes issues related to the Oracle Solaris OS in this release.

## Spurious Error Message During Initial Oracle Solaris OS Installation (Bug ID 15658412, CR 6971896)

---

**Note** - This issue was originally listed as CR 6971896.

---

The miniroot is a bootable root file system that includes the minimum Oracle Solaris OS software required to boot the server and configure the OS. The miniroot runs only during the installation process.

When the server boots the miniroot for the initial configuration, you might see the following messages in the system console:

```
Fatal server error:
InitOutput: Error loading module for /dev/fb

giving up.
/usr/openwin/bin/xinit: Network is unreachable (errno 128):
unable to connect to X server
/usr/openwin/bin/xinit: No such process (errno 3): Server error.
```

The messages indicate that the Xsun server in the Oracle Solaris OS miniroot cannot find a supported driver for the AST graphics device in the service processor. These messages are legitimate, as the miniroot contains only the Xsun environment, and the AST frame buffer (`astfb`) is supported only in the Xorg environment. The Xorg environment is included in the installed system, so the graphics device might be used when running the installed Oracle Solaris OS.

**Workaround:** You can safely ignore this message.

## When `diag-switch? Is Set to true`, Oracle Solaris OS Fails to Update EEPROM for Automatic Rebooting (Bug ID 15666767, CR 6982060)

---

**Note** - This issue was originally listed as CR 6982060.

---

When installing the Oracle Solaris OS to a device when the OBP `diag-switch?` parameter is set to `true`, the Oracle Solaris OS installer fails to update the `bootdevice` parameter with the new device path where the OS was installed. Therefore, this new device path will not be used during the subsequent automatic system reboots.

Under these conditions, the server displays the following error message and you cannot reboot from the device:

```
Installing boot information
- Installing boot blocks (cxtxdxsx)
- Installing boot blocks (/dev/rdisk/cxtxdxsx)
- Updating system firmware for automatic rebooting
WARNING: Could not update system for automatic rebooting
```

On previous systems, the OBP `diag-device` parameter would set the new device path to the boot device when the `diag-switch?` parameter was set to `true`. SPARC T4 systems no longer support `diag-device` parameter, so the Oracle Solaris OS installer warns that setting the OBP `boot-device` parameter is not possible.

**Workaround:** From the Oracle ILOM prompt, set the OBP `diag-switch?` parameter to `false` before starting an installation.

```
-> set /HOST/bootmode script="setenv diag-switch? false"
```

---

**Note** - The change to the `/HOST/bootmode` script will take effect with the next system poweron.

---

Alternatively, you can set this parameter at the OBP `ok` prompt.

```
ok setenv diag-switch? false
```

## The `cfgadm` Command Fails for Certain HBAs (Bug ID 15715604, CR 7044759)

---

**Note** - This issue was originally listed as CR 7044759.

---

The `cfgadm` command fails for some HBA devices (such as `SGX-SAS6-EXT-Z`, `SGX-SAS6-INT-Z`, `SG-SAS6-REM-Z`). For example:

```
# cfgadm -c unconfigure Slot1
cfgadm: Component system is busy, try again: unconfigure failed
WARNING: (pcieb2): failed to detach driver for the device (mpt_sas9) in the Connection Slot1
WARNING: (pcieb2): failed to detach driver for the device (mpt_sas9) in the Connection Slot1
```

**Workaround:** Disable the fault management daemon before running the `svcadm unconfigure` command.

```
# svcadm disable fmd
# ps -ef |grep fmd
...
# cfgadm -c unconfigure PCI-EM0
```

After completing the `cfgadm` task, re-enable the fault management daemon.

```
# svcadm enable fmd
```

## Firmware Issues

This section describes issues related to the system firmware.

### **e1000g Driver Generates Spurious ereports When Installing Oracle Solaris OS Over a Sun PCIe Dual Gigabit Ethernet Adapter (Bug ID 15647420, CR 6958011)**

---

**Note** - This issue was originally listed as CR 6958011.

---

When installing the Oracle Solaris OS on domains controlled through Sun PCIe Dual Gigabit Ethernet (UTP or MMF) adapters, the e1000g Gigabit Ethernet driver might generate false error reports on the static direct I/O (SDIO) and primary domains. The following is an example of these spurious reports:

```
date time ereport.io.pciex.tl.ca nvlist version: 0
          ena = 0x298a9f62243802
ena = 0x298a9f62243802
detector = (embedded nvlist)
nvlist version: 0
scheme = dev
device-path = /pci@400/pci@1
(end detector)

class = ereport.io.pciex.tl.ca
dev-status = 0x2
ue-status = 0x8000
ue-severity = 0x62030
adv-ctl = 0xf
source-id = 0x600
source-valid = 1
__ttl = 0x1
__tod = 0x4c058b2e 0x1e8813a0
```

**Workaround:** You can safely ignore these ereports.



## Units Used to Define the MIB Power Management Time Limit Are Reported in Seconds (Bug ID 15675720, CR 6993008)

---

**Note** - This issue was originally listed as CR 6993008.

---

The MIB should report the `sunHwCtrlPowerMgmtBudgetTimeLimit` in milliseconds, but the value displayed is in seconds.

**Workaround:** Understand that the value reported for `sunHwCtrlPowerMgmtBudgetTimeLimit` is in seconds.

## Blue OK-to-Remove LED on Drive Does Not Light When the Drive Is Ready to Remove (Bug ID 15737491, CR 7082700)

---

**Note** - This issue was originally listed as CR 7082700.

---

When you attempt to unconfigure a drive for removal, the drive's blue LED that indicates the drive is ready for removal might not light. This situation happens after you place a drive in a slot in place of a drive that had a different WWN.

**Workaround:** If you inserted a drive after booting the server, realize that the blue LED will not perform this function until the server has booted again.

## Timestamp for an Oracle ILOM Fault/Critical Event Might Be Off by One Hour (Bug ID 15802097, CR 6943957)

---

**Note** - This issue was originally listed as CR 6943957.

---

---

**Note** - This issue is fixed in System Firmware 8.3.0.

---

The timestamp reported in an email generated in an Oracle ILOM Fault/critical event might be one hour later than the timestamp recorded in the event log.

**Recovery Action:** Check the timestamp recorded in the event log. If it does not match the timestamp reported in the email, use the event log time.

## **reboot disk Command Occasionally Fails When disk Argument Picks Up Extra Characters (Bug ID 15816272, CR 7050975)**

---

**Note** - This issue was originally listed as CR 7050975.

---

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**Note** - This issue is fixed in Oracle Solaris 10 01/13.

---

When running the reboot disk command, extraneous characters are occasionally added to the disk argument before it reaches the OpenBoot PROM (OBP). This results in a failure to boot.

**Recovery Action:** Repeat the boot request.