



# Sun SPARC Enterprise™ M3000 Server Product Notes

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For XCP Version 1090

Sun Microsystems, Inc.  
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# Preface

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These product notes contain important and late-breaking information about the Sun SPARC Enterprise™ M3000 server hardware, software, and documentation.

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## Using UNIX Commands

This document might not contain information about basic UNIX® commands and procedures such as shutting down the system, booting the system, and configuring devices. Refer to the following for this information:

- Software documentation that you received with your system
- Solaris™ Operating System documentation, which is at:

<http://docs.sun.com/app/docs/prod/solaris#hic>

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# Prompts

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Shell	Prompt
C shell	<i>machine-name%</i>
C shell superuser	<i>machine-name#</i>
Bourne shell and Korn shell	\$
Bourne shell and Korn shell superuser	#
XSCF Shell	XSCF>

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## Related Documentation

Instructions for installing, administering, and using your servers are provided in the SPARC Enterprise M3000 servers documentation set, available here:

<http://docs.sun.com/app/docs/prod/sparc.m3k#hic>

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**Note** – Information in these product notes supersedes the information in the SPARC Enterprise M3000 servers documentation set.

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# Documentation, Support, and Training

Sun Function	URL
Documentation	<a href="http://www.sun.com/documentation/">http://www.sun.com/documentation/</a>
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# Sun SPARC Enterprise M3000 Servers Product Notes for XCP 1090

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This chapter contains the following sections:

- [“What’s New”](#) on page 1
- [“Supported Firmware and Software Versions”](#) on page 3
- [“Solaris Patch Information”](#) on page 4
- [“Obtaining Solaris Patches”](#) on page 5
- [“Upgrading to XCP 1090”](#) on page 6
- [“Functionality Issues and Limitations”](#) on page 6
- [“Additional Information and Procedures”](#) on page 8

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## What’s New

- Support for the new XSCF command `showdateoffset(8)` is new in XCP 1090.  
For details, see the manual page online or in the reference manual.
- Airflow indicator support was added in XCP 1082.  
For more information, see [“Airflow Indicator”](#) on page 2.
- Power consumption monitoring was added in XCP 1081.  
For more information, see [“Power Consumption Monitoring”](#) on page 2.

## Airflow Indicator

The Airflow indicator confirms the amount of airflow emitted while the SPARC Enterprise M3000 server is up and running.

The Airflow indicator value indicates the volume of air exhausted from the server . The value does not include the peripheral devices.

To display the amount of exhaust air, use the `showenvironment air` command.

```
XSCF> showenvironment air  
Estimated Air Flow:63CMH
```

---

**Note** – Airflow monitoring measurement values are for reference only.

---

For details of the `showenvironment(8)` command, refer to the man page. For installation details of the SPARC Enterprise M3000 server, see the *SPARC Enterprise M3000 Server Site Planning Guide* and the *SPARC Enterprise M3000 Server Installation Guide*.

You can also obtain the exhaust air data using the SNMP agent function. To obtain the data of exhaust air using the SNMP agent function, install the latest XSCF extension MIB definition file to the SNMP manager. For details on the XSCF extension MIB definition file, see the *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide*.

## Power Consumption Monitoring

The power consumption monitoring function confirms the amount of power consumed while the SPARC Enterprise M3000 server is up and running.

To display the power consumption, use the `showenvironment power` command.

```
XSCF> showenvironment power  
Permitted AC power consumption:470W  
Actual AC power consumption:450W
```

For details of the `showenvironment(8)` command, see the man page. For installation details of the SPARC Enterprise M3000 server, see the *SPARC Enterprise M3000 Server Site Planning Guide*.

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**Note** – Power consumption monitoring measurement values are for reference only. The power consumption value of the server varies by the conditions such as the power supply in use, CPU types, system configurations, or system load.

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You can also obtain the power consumption data using the SNMP agent function. To obtain the power consumption data using the SNMP agent function, install the latest XSCF extension MIB definition file to the SNMP manager. For details on the XSCF extension MIB definition file, see the *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide*.

When there is a change in the power system, such as in the following occurrences, wait for one minute, then check the value again.

- During the server power-on or power-off, or after the power-on or power-off is complete
- During the active replacement of a power supply unit, or after the active replacement is complete

---

## Supported Firmware and Software Versions

The Solaris Operating System and Sun Java™ Enterprise System software are preinstalled on new SPARC Enterprise M3000s.

The following table lists the firmware and operating system (OS) versions that are supported in this release.

**TABLE 1-1** Minimum Firmware and Operating System Versions for the M3000 Server

Firmware and Operating System	Version
XSCF Control Package (XCP)	
Airflow monitoring	XCP 1082
Power consumption monitoring	XCP 1081
Solaris Operating System	Solaris 10 10/08 Solaris 10 5/08, with required patches*

\* See “Solaris Patch Information” on page 4 for information about patches. Check <http://sunsolve.sun.com> for the latest patch revision.

Many web browsers support the XSCF Web. The browsers in [TABLE 1-2](#) have demonstrated compatibility with the XSCF Web through testing.

**TABLE 1-2** Tested Web Browser Versions

Web Browser Application	Version
Firefox	2.0 and 3.0
Microsoft® Internet Explorer	6.0 and 7.0

## Solaris Patch Information

This section lists mandatory patches for the M3000 servers.

Always refer to the patch README for information about patch requirements and special installation instructions.

The patch identifiers listed in this section represent the *minimum* level of the patches that must be installed. The two-digit suffix represents the minimum revision level of the patch.

Check <http://sunsolve.sun.com> for the latest patch revision.

Apply patches in the order listed. For additional Solaris OS information see “[Solaris OS Issues and Workarounds](#)” on page 17.

### Patches for Solaris 10 5/08

The following patches are required for all M3000 servers running Solaris 10 5/08. They should be installed in the order listed.

1. 119254-59 (patchadd patch) - Reboot the system before proceeding.
2. 138866-01 - Reboot into single user mode before proceeding.
3. 137137-09 (KU patch) - Reboot the system before proceeding.
4. 138504-04 SunVTS7.0PS3.

# Patches for Emulex PCI Express (PCIe) Cards

The following Emulex cards require drivers supplied in patch 120222-27 or later:

- XSEFC402AF Sun StorageTek™ Enterprise Class 4-Gigabit Dual-Port Fiber Channel PCIe HBA
- XSEFC401AF Sun StorageTek Enterprise Class 4-Gigabit Single-Port Fiber Channel PCIeHBA

## Obtaining Solaris Patches

The Sun<sup>SM</sup> Connection Update Manager can be used to reinstall the patches if necessary or to update the system with the latest set of mandatory patches. For more information about the Sun Connection Update Manager, refer to the *Sun Update Connection System Administration Guide* at:

<http://docs.sun.com/app/docs/prod/updconn.sys>

Or visit:

<http://wikis.sun.com/display/SunConnection/Update+Manager>

Installation information and README files are included in the patch downloads.

There are two options available to register your system and to use the Sun Connection Update Manager to obtain the latest Solaris OS patches:

- Use the Update Manager GUI to obtain patches.  
For more information, refer to the Sun Update Connection documentation at the links mentioned previously.
- Use the `smpatch(1M)` command to obtain patches.  
For more information, refer to the `smpatch(1M)` man page or the reference manual collection for your version of Solaris.

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# Upgrading to XCP 1090

For information about upgrading your firmware, refer to the *Sun SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide*.

## Resetting the XSCF Firmware

After updating the XCP firmware, use the `rebootxscf(8)` command to reset the XSCF.

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# Functionality Issues and Limitations

This section describes known issues and limitations at the time of this release.

## Limitation for Power Consumption Monitoring Function

The amount of power consumption may not be indicated correctly in the MIB information, in the `showenvironment power` command output, and on the XSCF Web in the following cases; and you should wait for one minute and check the value again.

- During the server powering on or powering off, or for a while after the power-on or power-off complete
- During the active replacement of power supply unit, or for a while after the active replacement complete

## General Functionality Issues and Limitations

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**Note** – For power-on after power-off, wait at least 30 seconds before turning the system power back on, by using the main line switch or the circuit breakers on the distribution panel.

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- The information displayed about air flow volume pertains to the SPARC Enterprise servers only. Air flow volume for peripheral devices is not displayed.
- You cannot use the following user account names, as they are reserved for system use: `root`, `bin`, `daemon`, `adm`, `operator`, `nobody`, `sshd`, `rpc`, `rpcuser`, `ldap`, `apache`, `ntp`, `admin`, and `default`.
- Do not use the Service Processor (SP) as the Network Time Protocol (NTP) server. Using an independent NTP server provides optimal reliability in maintaining consistent time on the SP and the domains. For more information about NTP, see the Sun Blueprint document, *Using NTP to Control and Synchronize System Clocks*: <http://www.sun.com/blueprints/0701/NTP.pdf>
- When you use the external power control interface of the external power controller, the following notification signals are not supported:
  - The OS panic or the server hardware error signal (\*CPUN/RTNU).
  - The server hardware error signal (power fail, temperature error, and fan error) (\*ALARM).
- When you import XCP or update the firmware using the XSCF you might see Web session ID errors displayed on the web browser. When you specify the timeout period as over 30 minutes in the Autologout setting Internal Server Errors might be displayed. To reconnect to the XSCF Web close the current browser and open the new browser.
- Disable pop-up blocking and remove any plug-ins such as the search tool installed with the browser when you use the XSCF Web.
- XSCF-LAN is compliant with auto-negotiation. Set the network device which connects with XSCF-LAN to the auto-negotiation mode. Otherwise when you connect the XSCF-LAN and the network device (fixed to the full-duplex mode, according to the IEEE 802.3 rule) the XSCF-LAN communicates in half-duplex mode and network communication speed might slow down or communication errors may occur.

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# Additional Information and Procedures

This section describes additional known issues and limitations at the time of this release.

## Logging In to the System

In addition to the standard *default* login, the M3000 server is delivered with a temporary login called `admin` to enable remote initial login, through a serial port. The admin user privileges are fixed to `useradm` and cannot be changed. You cannot log in as temporary `admin` using the standard UNIX user name and password authentication or SSH public key authentication. The temporary `admin` account has no password, and one cannot be added for it.

The temporary `admin` account is disabled after someone logs in as the default user, or after someone logged in as temporary `admin` has successfully added the first user with valid password and privileges.

If, before the default login is used, you cannot log in as temporary `admin`, you can determine if someone else has done so by executing the `showuser -l` command.

## XSCF Web Browser Issues

The XSCF Web browser interface occasionally truncates output. Some examples: When you selected SSH on the snapshot screen, the maximum number of character input for Host, Directory, ID, and Password doesn't correspond to the maximum number of character input on the XSCF Shell. The Panic Log page only displays the last 50 lines of the panic message (CR 6756052). The browser interface displays only the last two digits of the non-audit log size limit (CR 6742502).

To see the full output use the XSCF Shell command-line interface (CLI).

## Booting From a WAN Boot Server

The WAN boot installation method enables you to boot and install software over a wide area network (WAN) by using HTTP. To support booting the M3000 server from a WAN boot server, you must have the appropriate `wanboot` executable installed and OpenBoot™ version 4.24 or above to provide the needed hardware support.

For information about WAN boot servers, refer to the *Solaris 10 Installation Guide: Network-Based Installations* for the version of Solaris 10 OS that you are using. You can find Solaris 10 OS documentation here:

<http://docs.sun.com/app/docs/prod/solaris.10>

If you do not upgrade the wanboot executable, the server will panic, with messages similar to the following:

```
krtld: load_exec: fail to expand cpu/$CPU
krtld: error during initial load/link phase
panic - boot: exitto64 returned from client program
```

## Sun Java Enterprise System

The Sun Java™ Enterprise System software is a comprehensive set of software and life cycle services that make the most of your software investment. The software and installation instructions can be found at the following web address:

<http://www.sun.com/software/javaenterprisesystem/index.jsp>

The software might not include patches that are mandatory for your server. After installing the software, refer to “[Solaris Patch Information](#)” on page 4 for information about checking for and installing required patches.

For an overview and documentation, go to:

<http://www.sun.com/service/javaes/index.xml>

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**Note** – Due to an issue that arises from the installation of the Java Enterprise System 5 Update 1 on your system (CR 6644798), it might be necessary to enable the WebConsole SMF service.

---

### ▼ Enable the Web Console SMF Service

- Log in to a terminal as `root`, then type:

```
# svcadm enable svc:/system/webconsole:console
```

# Booting Multiple OPL Systems From a Single J4200 JBOD Storage Array

Sun Storage J4200 SAS JBOD arrays have six general-purpose SAS connectors. With FW version 3A32 or higher, each of them can be connected to separate SAS initiators, therefore up to six systems can be connected to the array. Each system can use a different disk on the array as its boot device. J4200 arrays have 12 disks, so each boot device can be mirrored for higher reliability.

J4200 SAS arrays can be configured into multiple zones to provide a more secure environment.

## Related Information

- Sun StorageTek Common Array Manager Software documentation, at: <http://docs.sun.com/app/docs/prod/stor.arrmgr#hic>  
See especially:
  - *Sun StorageTek Common Array Manager Software Release Notes 6.4.1*
  - *Sun StorageTek Common Array Manager User Guide for Open Systems*

## Information About Hardware

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This chapter describes the special instructions and the issues about the SPARC Enterprise M3000 server hardware.

- [“Notes on the Use of 200V Power Supply” on page 11](#)
- [“Connecting an SAS Device With Multiple SAS Targets to Onboard External SAS Interface Not Supported” on page 11](#)
- [“Hardware Documentation Updates” on page 12](#)
- [“Power-off by Using the XSCF Command” on page 14](#)

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### Notes on the Use of 200V Power Supply

For servers that have the B-type plug, confirm that a 15A overcurrent protection device is available outside the server. If one is not available, prepare an external 15A overcurrent protection that can be achieved by means of no-fuse breakers (NFBs) or fuses. The B-type plug refers to plugs other than grounding-type ones with two parallel blades, such as the NEMA L6-30, L6-20, L6-15, and L5-15.

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### Connecting an SAS Device With Multiple SAS Targets to Onboard External SAS Interface Not Supported

It is not supported to connect an SAS device containing multiple SAS targets to the onboard external SAS interface. Instead, use a Sun StorageTek Host Bus Adaptor (SG-XPCIE8SAS-E-Z). [6765239]

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# Hardware Documentation Updates

This section contains late-breaking hardware information and corrections that became known after the documentation set was published.

TABLE 2-1 lists known documentation updates.

**TABLE 2-1** Hardware Documentation Updates

Title	Page Number	Update
<i>SPARC Enterprise M3000 Server Site Planning Guide</i>	2-5	<p>TABLE 2-4 "Power Cords and Connector Types"</p> <p>It describes the power cord type for Hong Kong as "IEC 60320 C14" which should be modified as "BS1363."</p> <p>The following note will be added.</p> <p><b>Note</b> - For servers that have the B-type plug, confirm that a 15A overcurrent protection device is available outside the server. If one is not available, prepare an external 15A overcurrent protection that can be achieved by means of no-fuse breakers (NFBs) or fuses. The B-type plug refers to plugs other than grounding-type ones with two parallel blades, such as the NEMA L6-30, L6-20, L6-15, and L5-15.</p>
<i>SPARC Enterprise M3000 Server Installation Guide</i>	2-5	<p>TABLE 2-4 "Power Cords and Connector Types"</p> <p>It describes the power cord type for Hong Kong as "IEC 60320 C14" which should be modified as "BS1363."</p> <p>The following note will be added.</p> <p><b>Note</b> - For servers that have the B-type plug, confirm that a 15A overcurrent protection device is available outside the server. If one is not available, prepare an external 15A overcurrent protection that can be achieved by means of no-fuse breakers (NFBs) or fuses. The B-type plug refers to plugs other than grounding-type ones with two parallel blades, such as the NEMA L6-30, L6-20, L6-15, and L5-15.</p>

## Power Cords and Connector Types

The following information supersedes the information in the *SPARC Enterprise M3000 Server Site Planning Guide* and the *SPARC Enterprise M3000 Server Installation Guide*.

The corrected table for power cords and connector types is as follows, corresponding with TABLE 2-4 in both documents.

**TABLE 2-4** Power Cords and Connector Types

Location	Power cord type	connector type
Japan	NEMA5-15 125V15A	IEC 60320 C13
North America	NEMAL6-15 250V15A	
China	GB 2099.1 250V15A	
Hong Kong	BS1363 250V15A	
South Korea	IEC60320-C14 250V15A	

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**Note** – For servers that have the B-type plug, confirm that a 15A overcurrent protection device is available outside the server. If one is not available, prepare an external 15A overcurrent protection that can be achieved by means of no-fuse breakers (NFBs) or fuses. The B-type plug refers to plugs other than grounding-type ones with two parallel blades, such as the NEMA L6-30, L6-20, L6-15, and L5-15

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## Updates of the SPARC Enterprise M3000 Server Service Manual

The following information supersedes the information in the *SPARC Enterprise M3000 Server Service Manual*.

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# Power-off by Using the XSCF Command

The description here corrects section 4.5.1.1, "Power-off by Using the XSCF Command."

1. **Notify users that the server is going down.**
2. **Back up the system files and data as necessary.**
3. **Log in to the XSCF Shell and type the `poweroff` command.**

```
XSCF> poweroff -a
```

The following actions occur when the `poweroff` command is used:

- The Solaris OS shuts down cleanly.
- The server powers off to Standby mode (the XSCF unit and one fan will still have power).

For details of the command, see the XSCF Reference Manual for your server.



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**Caution** – There is an electrical hazard if the power cords are not disconnected. All power cords must be disconnected to completely remove power from the server.

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## Information About Software

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This chapter describes specific software and firmware issues and workarounds. To obtain patches and to check for availability of new patches that fix these issues, go to:

<http://sunsolve.sun.com>

The chapter includes the following sections:

- “XCP Issues and Workarounds” on page 15
- “Solaris OS Issues and Workarounds” on page 17
- “Documentation Updates” on page 21

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## XCP Issues and Workarounds

TABLE 3-1 lists XCP issues and possible workarounds.

**TABLE 3-1** XCP Issues and Workarounds (1 of 2)

ID	Description	Workaround
6741770	SNMP trap host configuration changes are not valid until <code>setsnmp disable</code> and <code>setsnmp enable</code> .	Modify the SNMP setting: XSCF> <b>setsnmp disable</b> XSCF> <b>setsnmp enable</b>

**TABLE 3-1** XCP Issues and Workarounds (2 of 2)

ID	Description	Workaround
6760740	<p>You might see console error messages and a core dump (ereport.chassis.software.core) when one of these conditions occurs:</p> <ul style="list-style-type: none"> <li>• A local account has been created with a user ID explicitly assigned to a value larger than 65536 (adduser -u uid).</li> <li>• An LDAP account has been used that has a UID value larger than 65536.</li> </ul>	<p>Use only user accounts with a user ID (UID) value between 100 and 60000. This is the range of auto-assigned UIDs for the XSCF command adduser.</p>
6761674	<p>The first usage of the OBP command probe-scsi-all might not show all devices connected via the external SAS port.</p>	<p>Retry the probe-scsi-all command.</p>
6765468	<p>When the timezone other than three characters has been set, the error logs cannot be displayed on XSCF Web "Error Log" page. In addition, XSCF Web "Panic Log" and "IPL Message Log" pages displays the date on the table with "---".</p>	<p>Use the showlogs(8) command on the XSCF shell.</p>
6789066	<p>In the settimezone -c adddst command, when you set eight or more letters to the abbreviation of time zone and the name of Daylight Saving Time, execution of the showlogs command induces a segmentation fault and results in an error.</p>	<p>Specify the abbreviation of time zone and the name of Daylight Saving Time in seven letters or less.</p>
6851009	<p>If certain changes occur on a standalone NTP server, the XSCF connection to the NTP server is lost, and XSCF uses instead its local clock. This problem occurs with a standalone NTP server, that is, with an NTP server that syncs the time with its own local clock (LCL), not with a higher-stratum NTP server. Changes that can trigger this change include:</p> <ul style="list-style-type: none"> <li>• Rebooting the NTP server</li> <li>• Modifying the date by even one second</li> <li>• Changing the NTP server stratum</li> </ul>	<p><b>Note</b> - Before making any changes, ensure that your change has no impact on other NTP clients.</p> <p>The XSCF LCL is set to 127.127.1.0.</p> <p>On the NTP server, change the NTP host configuration file (/etc/inet/ntp.conf) so that the value of the local clock is a different value. Other available IDs include:</p> <ul style="list-style-type: none"> <li>- 127.127.1.1</li> <li>- 127.127.1.2</li> <li>- 127.127.1.3</li> </ul>

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# Solaris OS Issues and Workarounds

This section contains information about Solaris OS issues. [TABLE 3-2](#), [TABLE 3-3](#), and [TABLE 3-4](#) list issues you might encounter, depending upon which Solaris OS release you are using.

## Solaris Issues for All Supported Releases

[TABLE 3-2](#) lists Solaris OS issues that you might encounter in any supported release of Solaris OS.

**TABLE 3-2** Solaris OS Issues and Workarounds for All Supported Releases (1 of 3)

CR ID	Description	Workaround
6531036	The error 'message network initialization failed' appears repeatedly after a boot net installation.	No workaround is available. This message can be safely ignored.
6532215	volfs or dscp services might fail when a domain is booted.	Restart the service. To avoid the problem, issue the following commands. <pre># svccfg -s dscp setprop start/timeout_seconds=count: 300 # svccfg -s volfs setprop start/timeout_seconds=count: 300 # svcadm refresh dscp # svcadm refresh volfs</pre>
6572827	The <code>prtdiag -v</code> command reports PCI bus types incorrectly. It reports "PCI" for PCI-X leaf devices and "UNKN" for legacy PCI devices.	No workaround is available.

**TABLE 3-2** Solaris OS Issues and Workarounds for All Supported Releases (2 of 3)

CR ID	Description	Workaround
6660168	<p>If a <code>ubc.piowbeue-cpu</code> error occurs on a domain, the Solaris Fault Management <code>cpumem-diagnosis</code> module might fail, causing an interruption in FMA service. If this happens, you will see output similar to the following sample in the console log:</p> <pre>SUNW-MSG-ID: FMD-8000-2K, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Fri Apr 4 21:41:57 PDT 2008 PLATFORM: SUNW,SPARC-Enterprise, CSN: 2020642002, HOSTNAME: &lt;hostname&gt; SOURCE: fmd-self-diagnosis, REV: 1.0 EVENT-ID: 6b2e15d7-aa65-6bcc-bcb1- cb03a7dd77e3 DESC: A Solaris Fault Manager component has experienced an error that required the module to be disabled. Refer to http://sun.com/msg/FMD-8000-2K for more information. AUTO-RESPONSE: The module has been disabled. Events destined for the module will be saved for manual diagnosis. IMPACT: Automated diagnosis and response for subsequent events associated with this module will not occur. REC-ACTION: Use <code>fmdump -v -u &lt;EVENT- ID&gt;</code> to locate the module. Use <code>fmadm reset &lt;module&gt;</code> to reset the module</pre>	<p>If <code>fmd</code> service fails, issue the following command on the domain to recover:</p> <pre># <b>svcadm clear fmd</b></pre> <p>Then restart <code>cpumem-diagnosis</code>:</p> <pre># <b>fmadm restart cpumem-diagnosis</b></pre>
6668237	<p>After DIMMs are replaced the corresponding DIMM faults are not cleared on the domain.</p>	<p>Use the following commands:</p> <pre># <b>fmadm repair fmri uuid</b> # <b>fmadm rotate</b></pre>

**TABLE 3-2** Solaris OS Issues and Workarounds for All Supported Releases (3 of 3)

CR ID	Description	Workaround
6679370	The following message may be output on the console during the system booting, the External I/O Expansion Unit adding by hotplug, or the FMEMA operating by DR. SUNW-MSG-ID: SUN4-8000-75, TYPE: Fault, VER: 1, SEVERITY: Critical ... DESC: A problem was detected in the PCIExpress subsystem. Refer to <a href="http://sun.com/msg/SUN4-8000-75">http://sun.com/msg/SUN4-8000-75</a> for more information. ...	Add the following to <code>/etc/system</code> and then reboot the domain. <code>set pcie_expected_ce_mask = 0x2001</code>
6723202	The <code>raidctl</code> command cannot be used to create a hardware RAID using the onboard SAS/LSI controller on the M3000 server. The <code>raidctl</code> command can be used to view disk/controller status, and can be used on any PCI Host Bus Adapter (HBA) installed in the system.	No workaround is available.
6745410	Boot program ignores the <code>Kadb</code> option which causes the system not to boot.	Use <code>kmdb</code> instead of <code>kadb</code> .

## Solaris Issues Fixed in Solaris 10 5/09

[TABLE 3-3](#) lists issues that have been fixed in Solaris 10 5/09 OS. You might encounter them in supported releases earlier than Solaris 10 5/09.

**TABLE 3-3** Solaris OS Issues and Workarounds Fixed in Solaris 10 5/09 (1 of 2)

CR ID	Description	Workaround
6623226	The Solaris command <code>lockstat(1M)</code> or the <code>dtrace lockstat</code> provider might cause a system panic.	Do not use the Solaris <code>lockstat(1M)</code> command or the <code>dtrace lockstat</code> provider.
6680733	Sun Quad-port Gigabit Ethernet Adapter UTP (QGC) & Sun Dual 10 GigE Fiber XFP Low Profile Adapter (XGF) NICs might panic under high load conditions.	

**TABLE 3-3** Solaris OS Issues and Workarounds Fixed in Solaris 10 5/09 (2 of 2)

CR ID	Description	Workaround
6689757	Sun Dual 10 GigE Fiber XFP Low Profile Adapter (XGF) with a single or improperly installed XFP optical transceivers might cause the following error to show on the console: The XFP optical transceiver is broken or missing.	Check and make sure that both XFP optical transceivers are firmly seated in the housing. Do not mix INTEL and Sun XFP optical transceivers in the same Adapter. Do NOT plumb a port with the <code>ifconfig</code> command if the port does not contain an XFP optical transceiver or it contains one but the transceiver is not in use.
6725885	<code>cfgadm</code> will display non-existent M3000 system boards (SB1 to SB15).	The <code>cfgadm</code> output for SB1-SB15 can be ignored.

## Solaris Issues Fixed in Solaris 10 10/08

[TABLE 3-4](#) lists issues that have been fixed in Solaris 10 10/08 OS. You might encounter them if using Solaris 10 5/08.

**TABLE 3-4** Solaris OS Issues and Workarounds Fixed in Solaris 10 10/08 (1 of 2)

CR ID	Description	Workaround
6556742	The system panics when DiskSuite cannot read the <code>metadb</code> during DR. This bug affects the following cards: <ul style="list-style-type: none"> <li>• SG-XPCIE2FC-QF4, 4-Gigabit PCI-e Dual-Port Fiber Channel HBA</li> <li>• SG-XPCIE1FC-QF4, 4-Gigabit PCI-e Single-Port Fiber Channel HBA</li> <li>• SG-XPCI2FC-QF4, 4-Gigabit PCI-X Dual-Port Fiber Channel HBA</li> <li>• SG-XPCI1FC-QF4, 4-Gigabit PCI-X Single-Port Fiber Channel HBA</li> </ul>	Panic can be avoided when a duplicated copy of the <code>metadb</code> is accessible via another Host Bus Adaptor.
6608404	Hot-plug of the X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP card might cause other network devices to fail.	There is no workaround.
6720261	If your domain is running Solaris 10 5/08 OS, the system might panic/trap during normal operation:	Set the following parameter in the system specification file ( <code>/etc/system</code> ): <code>set heaplp_use_stlb=0</code> Then reboot the domain.

**TABLE 3-4** Solaris OS Issues and Workarounds Fixed in Solaris 10 10/08 (2 of 2)

CR ID	Description	Workaround
6737039	<p>WAN boot of M3000 servers fails intermittently with a panic early in the boot process. Sample output:</p> <pre>ERROR: Last Trap: Fast Data Access MMU Miss %TL:1 %TT:68 %TPC:13aacc %TnPC:13aad0 %TSTATE:1605 %PSTATE:16 ( IE:1 PRIV:1 PEF:1 ) DSFSR:4280804b ( FV:1 OW:1 PR:1 E:1 TM:1 ASI:80 NC:1 BERR:1 ) DSFAR:fda6f000 DSFPAR:401020827000 D- TAG:6365206f66206000</pre>	Power off and power on the chassis, then retry the operation.

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## Documentation Updates

This section contains late-breaking software information that became known after the M3000 server documentation set was published.

[TABLE 3-5](#) lists known documentation corrections.

**TABLE 3-5** Documentation Updates

<b>Document</b>	<b>Issue</b>	<b>Change</b>
<i>SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual</i> and XSCF man pages	setdualpowerfeed(8) command	The following description will be added in DESCRIPTION: The dual power feed mode cannot be used with 100V power on M4000/M5000 servers.
	setupfru(8) command	The following description will be added in EXTENDED DESCRIPTION: Although a CMU with two CPUMs can be configured into Quad-XSB mode on an M8000/M9000 server, the server generates a "configuration error" message for those XCBs that do not have a CPUM and memory.
	showdevices(8) command	The following information will be added: After a DR operation and subsequent domain power cycle, you must run the command <code>devfsadm -v</code> command before running <code>showdevices</code> . Otherwise, the resulting display from <code>showdevices</code> will be erroneous.
	showenvironment(8) command	The following information will be added: The power operand is supported only on M3000 servers, and the air operand is supported only on M3000/M8000/M9000 servers.