



SPARC Enterprise™ T2000 Server Product Notes

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Adobe PostScript

Contents

Preface v

1. Important Information About the SPARC Enterprise T2000 Server 1

Supported Versions of Firmware and Software 1

Updating System Firmware 2

Patch Information 2

Mandatory Patches 2

Patches for Option Cards 2

Known Issues and Workarounds 2

Mandatory `/etc/system` File Entry 3

▼ To Check and Create the Mandatory `/etc/system` File Entries 3

Hardware Installation and Service Issues 4

Notes on the Use of 200V Power Supply 4

General Functionality Issues 4

RAID Function 4

False IO-Bridge Errors May Be Reported at Startup
(CR 6792174) 4

Running SunVTS CPU Tests ... Causes Shutdown Due to Watchdog
Timeout (CR 6498483) 5

Solaris Predictive Self-Healing (PSH) Feature 5

Supported Sun Explorer Utility Version 5

SPARC Enterprise T2000 Correctable Memory Errors in POST Could Be Misleading (CR 6479408)	6
Erroneous Fault Messages Displayed After a Solaris OS JumpStart Installation	6
▼ To Configure the System After a JumpStart Installation	7
Specific Issues and Workarounds	8
Start of FMA Service May Not Complete (CR 6886045)	13
Repeatedly Occurs an Event of Internal Fan Status Error Which Gets Back to Normal One Second Later (CR 6875992)	14
Documentation Errata	17
<i>Advanced Lights out Management (ALOM) CMT v1.3 Guide</i>	17
Error Regarding Date Synchronization	17
<i>SPARC Enterprise T2000 Server Installation Guide</i>	18
Typographic Error in "To Boot the Solaris Operating System"	18

Preface

These product notes contain important and late-breaking information about the SPARC Enterprise™ T2000 server hardware, software, or documentation that became known after the documentation set was published. This document includes these sections:

- [“Technical Support” on page v](#)
- [“Software Resources” on page vi](#)
- [“Accessing Documentation” on page vii](#)
- [“Fujitsu Welcomes Your Comments” on page viii](#)

Technical Support

If you have technical questions or issues that are not addressed in the SPARC Enterprise T2000 server documentation, contact a sales representative or a certified service engineer.

Software Resources

The Solaris™ Operating System and Sun Java™ Enterprise System software are preinstalled on your SPARC Enterprise T2000 server.

For the important information about preinstalled software, visit the following web sites:

Global Site

<http://www.fujitsu.com/sparcenterprise/manual/notes/>

Japanese Site

<http://primeserver.fujitsu.com/sparcenterprise/manual/notes/>

Note – For the latest patch information, visit the following web sites:

Global Site

<http://www.fujitsu.com/global/support/software/security/products-s/patch-info/>

Japanese Site

<http://software.fujitsu.com/jp/security/products-others/unix/index.html>

North American Site

<https://download.computers.us.fujitsu.com/>

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

Accessing Documentation

Instructions for installing, administering, and using your SPARC Enterprise T2000 server are provided in the SPARC Enterprise T2000 server documentation set. The documentation set is available for download from the following website:

Global Site

<http://www.fujitsu.com/sparcenterprise/manual/>

North American Site

<https://download.computers.us.fujitsu.com/>

Japanese Site

<http://primeserver.fujitsu.com/sparcenterprise/manual/>

Note – Information in these product notes supersedes the information in the SPARC Enterprise T2000 server documentation set.

Solaris documentation is available at:

<http://www.sun.com/documentation>

Fujitsu Welcomes Your Comments

If you have any comments or requests regarding this document, or if you find any unclear statements in the document, please state your points specifically on the form at the following URL.

For Users in U.S.A., Canada, and Mexico:

http://www.computers.us.fujitsu.com/www/support_servers.shtml?support/servers

For Users in Other Countries:

SPARC Enterprise contact

http://www.fujitsu.com/global/contact/computing/sparce_index.html

Important Information About the SPARC Enterprise T2000 Server

These product notes contain important and late-breaking information about the SPARC Enterprise T2000 server.

The following sections are included:

- [“Supported Versions of Firmware and Software” on page 1](#)
- [“Patch Information” on page 2](#)
- [“Known Issues and Workarounds” on page 2](#)
- [“Documentation Errata” on page 17](#)

Note – Information in these product notes supersedes the information in the SPARC Enterprise T2000 documentation set.

Supported Versions of Firmware and Software

These are the minimum supported versions of firmware and software for this release of the SPARC Enterprise T2000 server:

- Solaris 10 11/06 Operating System (OS)
- Sun Java™ Enterprise System software (Java ES 2005Q4)
- System firmware 6.3.5, which includes Advanced Lights Out Manager (ALOM) CMT 1.3.5 software and OpenBoot™ 4.25.3 firmware.

Updating System Firmware

For details on how to update your system firmware, see Appendix A of the *SPARC Enterprise T2000 Server Installation Guide*. For more details on the `flashupdate` command, see the *Advanced Lights Out Management (ALOM) CMT v1.x Guide*.

Note – Updating your system firmware also updates your ALOM CMT software and OpenBoot firmware.

Patch Information

Mandatory Patches

At this time, there are no mandatory patches for SPARC Enterprise T2000 servers.

Note – Contact a sales representative or a certified service engineer for the latest patch information.

Patches for Option Cards

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

Known Issues and Workarounds

This section describes issues that are known to exist for this release of the SPARC Enterprise T2000 server.

Mandatory `/etc/system` File Entry

This section describes mandatory `/etc/system` file entries that must be listed in this file to ensure the optimal functionality of the server.

The following entry must be in the `/etc/system` file:

```
set pcie:pcie_aer_ce_mask=0x2001
```

▼ To Check and Create the Mandatory `/etc/system` File Entries

Perform this procedure in the following circumstances:

- Check that the entries are present before deploying the server.
- Create the entries after the Solaris OS is installed or updated.

1. Log in as superuser.

2. Check the `/etc/system` file to see if the mandatory lines are in the file.

```
# more /etc/system
*ident "@(#)system      1.18 05/06/27 SMI" /* SVR4 1.5 */
*
* SYSTEM SPECIFICATION FILE
.
.
.
set pcie:pcie_aer_ce_mask=0x2001
.
```

3. If the entry is not there, add it:

- a. Use an editor to edit the `/etc/system` file and add entry.
- b. Reboot the server.

Hardware Installation and Service Issues

Notes on the Use of 200V Power Supply

For the 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.

For details of the power cord type for your server, contact your authorized service engineer.

General Functionality Issues

These are the functionality issues for this release.

RAID Function

A hardware RAID function is provided as standard in SPARC Enterprise T2000 servers. However, with regard to data protection, reliability, and serviceability, Fujitsu does not support this function.

Fujitsu recommends use of software RAID functions for internal disks as specified below:

- PRIMECLUSTER GDS
- Solaris Volume Manager (included in Solaris OS)

False IO-Bridge Errors May Be Reported at Startup (CR 6792174)

This bug can occasionally cause POST to report a false PCIE-to-PCIX bridge chip error the first time a system starts up. If this occurs, the system will reset. When it restarts, POST will behave correctly.

The following shows an example of the report POST records in such cases:

```
2007-05-15 02:48:48.778 0:0>ERROR: TEST = IO-Bridge unit 1 Config MB
bridges
2007-05-15 02:48:48.854 0:0>H/W under test = IOBD/PCIE,
IOBD/IO-BRIDGE, MB/CMP0
2007-05-15 02:48:49.007 0:0>Repair Instructions: Replace items in
order listed by 'H/W under test' above.
2007-05-15 02:48:49.236 0:0>MSG = IO-Bridge Error - 64bit Reg
Register,
    address 000000f6.00400004
    expected 00000000.00000000
    observed 00000000.000001ff
    wrote 00000000.00000000
2007-05-15 02:48:49.412 0:0>END_ERROR
```

Workaround: No workaround is needed. The system will behave correctly when it restarts.

Running SunVTS CPU Tests ... Causes Shutdown Due to Watchdog Timeout (CR 6498483)

Coolthreads™ servers running SunVTS™ CPU tests have encountered Solaris watchdog timeouts leading to system shutdown.

Workaround: Set the ALOM CMT `sys_autorestart` variable to none while running SunVTS, so that ALOM CMT issues a warning message but does not reset the server.

Solaris Predictive Self-Healing (PSH) Feature

The Solaris PSH implementation is not fully implemented in this release of the product. If a PSH message with a message ID of FMD-8000-OW occurs, refer to the instructions at: <http://www.sun.com/msg/FMD-8000-OW>.

Supported Sun Explorer Utility Version

The SPARC Enterprise T2000 server is supported by the Sun Explorer 5.7 (or later) data collection utility, but is not supported by earlier releases of the utility. Installing Sun Cluster or Sun Net Connect software from the preinstalled Java ES package

could automatically install an earlier version of the utility on your system. After installing any of the Java ES software, determine whether an earlier version of the Sun Explorer product has been installed on your system by typing the following:

```
# pkginfo -l SUNWexplo
```

If an earlier version exists, uninstall it and install version 5.7, or later.

SPARC Enterprise T2000 Correctable Memory Errors in POST Could Be Misleading (CR 6479408)

POST error messages regarding unsupported memory configurations can be misleading. In situations where memory rank 0 (zero) is fully populated, the following message can be ignored safely.

```
ERROR: Using unsupported memory configuration
```

Erroneous Fault Messages Displayed After a Solaris OS JumpStart Installation

If you perform a Solaris JumpStart™ installation of a SPARC Enterprise T2000 server, the server will display erroneous PSH fault messages at boot time. To correct this situation, you must install the SPARC Enterprise T2000 mandatory patches and make changes to the `/etc/system` file. In addition, you should also clear the PSH and ALOM CMT fault logs to prevent the erroneous messages from being reported again. The steps to do this are described in [“To Configure the System After a JumpStart Installation” on page 7](#).

Example of Erroneous Fault Messages at boot time:

```
SUNW-MSG-ID: SUN4-8000-0Y, TYPE: Fault, VER: 1, SEVERITY: Critical
EVENT-TIME: Fri Jan 27 22:17:36 GMT 2006
PLATFORM: SUNW,SPARC-Enterprise-T2000, CSN: -, HOSTNAME: xx
SOURCE: eft, REV: 1.13
EVENT-ID: d79b51d1-aca0-c786-aa50-c8f35ea0fba3
DESC: A problem was detected in the PCI-Express subsystem.
Refer to http://sun.com/msg/SUN4-8000-0Y for more information.
AUTO-RESPONSE: One or more device instances may be disabled
IMPACT: Loss of services provided by the device instances
associated with this fault
REC-ACTION: Schedule a repair procedure to replace the affected
device. Use fmdump -v -u EVENT_ID to identify the device or contact
support.
```

Example of displaying the messages with the `fmddump` command:

```
# fmddump -v -u d79b51d1-aca0-c786-aa50-c8f35ea0fba3
TIME UUID SUNW-MSG-ID
Jan 27 22:01:58.8757 d79b51d1-aca0-c786-aa50-c8f35ea0fba3 SUN4-
8000-0Y 100% fault.io.fire.asic
FRU: hc://product-id=SUNW,SPARC-Enterprise-T2000/component=IOBD
rsrc: hc:///ioboard=0/hostbridge=0/pciexrc=0
Jan 27 22:17:36.5980 d79b51d1-aca0-c786-aa50-c8f35ea0fba3 SUN4-
8000-0Y
100% fault.io.fire.asic
FRU: hc://product-id=SUNW,SPARC-Enterprise-T2000/component=IOBD
rsrc: hc:///ioboard=0/hostbridge=0/pciexrc=0
```

▼ To Configure the System After a JumpStart Installation

This procedure describes how to configure the SPARC Enterprise T2000 server after a jumpstart installation so that erroneous fault messages are not reported.

1. Install the mandatory patches on the server.
2. Update the `/etc/system` file.
See [“Mandatory /etc/system File Entry”](#) on page 3.
3. Use the `fmadm faulty` command to list the UUID of each erroneous fault.

```
# fmadm faulty
```

4. Clear each fault that was listed in the preceding step.

```
# fmadm repair d79b51d1-aca0-c786-aa50-c8f35ea0fba3
```

5. Clear the persistent logs as shown in the following example.

```
# cd /var/fm/fmd
# rm e* f* c*/eft/* r*/*
```

6. Reset the Solaris PSH modules as shown.

```
# fmadm reset cpumem-diagnosis
# fmadm reset cpumem-retire
# fmadm reset eft
# fmadm reset io-retire
```

7. Reset the faults at the ALOM CMT prompt:

a. Gain access to the ALOM CMT `sc>` prompt.

Refer to the *Advanced Lights Out Management (ALOM) CMT v1.x Guide* for instructions.

b. Run the `showfaults -v` command to see the UUID of any faults.

```
sc> showfaults -v
ID Time                FRU                Fault
0 Jan 27 22:01 hc://product-id=SUNW,SPARC-Enterprise-T2000/
component=IOBD Host detected fault, MSGID:
SUN4-8000-0Y UUID: d79b51d1-aca0-c786-aa50-c8f35ea0fba3
```

c. Run the `clearfault` command with the UUID provided in the `showfaults` output:

```
sc> clearfault d79b51d1-aca0-c786-aa50-c8f35ea0fba3
Clearing fault from all indicted FRUs...
Fault cleared.
```

8. If faults continue to be reported, the server might have a faulty component. Refer to the *SPARC Enterprise T2000 Server Service Manual* for diagnostic procedures.

Specific Issues and Workarounds

TABLE 1 lists known issues. The table also lists possible workarounds for these issues.

TABLE 1 Specific Issues for the SPARC Enterprise T2000 Server (1 of 6)

CR ID	Description	Workaround
6310384	The SunVTS USB keyboard test (<code>usbtest</code>) reports that a keyboard is present when there is no keyboard attached to the server.	Do not run the <code>usbtest</code> .

TABLE 1 Specific Issues for the SPARC Enterprise T2000 Server (2 of 6)

CR ID	Description	Workaround
6312364	When accessing the host through the ALOM CMT console command, you might experience slow console response.	For optimum responsiveness, access the host through the host network interfaces as soon as the host has completed booting the OS.
6314590	Executing the ALOM CMT <code>break</code> and <code>go</code> commands might cause the system to hang.	If the console hangs, reset the system.
6315238	Recycling AC power results in the following erroneous message: Preceding SC reset due to watchdog	Disregard this message.
6317382	Typing unrecognized commands or words at the <code>ok</code> prompt causes the system to return the following erroneous error: ERROR: Last Trap and might hang the server.	Disregard this erroneous error message. If the server hangs, reset the server from the system console.
6318208	Whenever the system resets, including after a POST reset, you might see the following message: <code>Host system has shut down</code>	Disregard this message. The system will be reset and display the OBP <code>ok</code> prompt as expected.
6325271	The console history <code>boot</code> and <code>run</code> logs are the same.	At this time, no workaround is available for this issue.
6336040	After a failed DIMM was cleared from the <code>asr</code> database, ALOM CMT might not properly reboot and returns the following error message: <code>No valid MEMORY configuration</code>	Wait 10 seconds after executing the <code>clearasrdb</code> command before executing the <code>resetsc</code> command. Refer to the <i>SPARC Enterprise T2000 Server Service Manual</i> for information about clearing DIMM-related faults.
6338365	Sun Net Connect 3.2.2 software does not monitor environmental alarms on the SPARC Enterprise T2000 server.	To receive notification that an environmental error has occurred, use the ALOM CMT <code>mgt_mailalert</code> feature to have ALOM CMT send an email when an event occurs. To check whether or not the environmental status of the server is ok, log on to ALOM CMT and run the <code>showfaults</code> command. To view a history of any events the server encountered, log on to ALOM CMT and run the <code>showlogs</code> command.
6338962	The system might hang after a panic when the <code>sync</code> command is used.	If the server hangs, reset the server from the system console.
6341045	If a CPU or memory fault occurs while the server is running a trap handler, the system might panic with a bad trap instead of providing a CPU or memory fault message. In such cases, memory scrubbing is not performed.	Reset the server, and check the server for possible faults using the <code>showfaults</code> command.

TABLE 1 Specific Issues for the SPARC Enterprise T2000 Server (3 of 6)

CR ID	Description	Workaround
6343294	When a Solaris PSH error is detected and reported, the following erroneous message (in addition to the correct message) might be reported: <pre>msg = warning: bad proto frame implies corrupt/lost msg(s)</pre>	Disregard the erroneous message.
6342192	The server does not answer incoming calls on the ALOM CMT serial management port.	Do not connect a modem to the ALOM CMT serial port.
6347456	SunVTS memory tests, in rare cases, might log a warning message similar to the following when the ECC Error Monitor (errmon) option is enabled: <pre>WARNING: software error encountered while processing /ar/fm/fmd/errlog Additional-Information: end-of-file reached</pre>	Do not enable the <code>errmon</code> option. The <code>errmon</code> option is disabled by default.
6344888	The system might generate erroneous fault messages with the following message IDs: <pre>SUN4-8000-ER SUN4-8000-OY SUN4-8000-75 SUN4-8000-D4</pre>	Make sure that the following line is in the <code>/etc/system</code> file: <pre>set pcie:pcie_aer_ce_mask=0x2001</pre> See “Mandatory /etc/system File Entry” on page 3 .
6368136	The ALOM <code>showlogs -p p</code> command displays a lot of data and could slow down the ALOM CLI.	To display the persistent log, use the following command instead: <pre>showlogs -e x</pre> where <code>x</code> specifies the number of lines (most recent log entries) to be displayed.
6368944	At the <code>ok</code> prompt, you can only enter text up to 114 characters.	Do not attempt to enter more than 114 characters at the <code>ok</code> prompt.
6380987	When a grounding wire is connected to the grounding pin on the rear of the chassis, it is not possible to change rear blower without removing the ground connection.	If you need to replace the rear blower unit, and there is a grounding wire connected, remove the grounding wire to access the blower unit.
6381064	The system cannot boot if a Sun type-7 keyboard is plugged into one of the front USB ports.	Do not plug a type-7 keyboard into any of the front USB ports. Instead, use a different kind of keyboard, or use the rear USB ports.
6405137	Intermittently, upon a system host power-on or reset, the system powers down with the following message: <pre>HV Abort: JBI Error (22) - PowerDown</pre>	Disregard this message. If the server hangs, reset the server from the system console.
6408619	The server fails to boot from a Linux tftp boot server on the network.	Use a Solaris OS tftp boot server.

TABLE 1 Specific Issues for the SPARC Enterprise T2000 Server (4 of 6)

CR ID	Description	Workaround
n/a	X-option and replacement hard drives might not have an electronic disk label.	If you plan to replace or add a hard drive to your server, the drive might not have an electronic disk label and you must run the <code>Format</code> utility to label the drive.
6508432	Many correctable errors (CE) could occur, and although these errors are correctable, the system could panic.	Add the following entry to <code>/etc/system</code> to avoid the problem: <pre>set pcie:pcie_aer_ce_mask = 0x2001</pre> See “Mandatory <code>/etc/system</code> File Entry” on page 3 .
6538717	The <code>showfru</code> command reports Micron DIMMs as Seagate DIMMs. For example: <pre>[LE2]FRU_PROM at MB/CMP0/CH0/R0/D0/SEEPROM /SPD/TimeStamp: MON APR 17 12:00:00 2006 /SPD/Description: DDR2 SDRAM, 1024 MB /SPD/Manufacture Location: /SPD/Vendor: Seagate <--should say Micron</pre>	Currently no workaround.
6520334	If SSH is not enabled, executing the <code>ssh-keygen -l</code> command to print keys generates the following error message: <pre>sc> ssh-keygen -l -t rsa Fingerprint file cant be opened error 380003</pre> This error message should read as follows: <pre>ssh is not enabled.</pre>	Enable SSH.
6472072	When a panic dump is taken by <code>Break-D</code> of ALOM, the panic message displays as follows: <pre>Unrecoverable hardware error.</pre>	Hardware error does not occur. This message can be safely ignored.
6500293, 6502078	After executing <code>boot-r</code> , the <code>prtdiag-v</code> command might not display host bus adaptors on SPARC Enterprise T1000 or T2000 servers.	Reboot the system without reconfiguration.
n/a	When the following devices are connected with <code>ttya</code> (Dsub 9pin) on SPARC Enterprise T1000 or T2000 servers, you cannot install the Solaris OS. <ul style="list-style-type: none"> • SH4124T (Dsub 9pin) • Cisco Catalyst2960 (RJ45) • SPARC Enterprise T2000 (Dsub 9pin) 	Install Solaris OS with nothing connected with <code>ttya</code> (Dsub 9pin).

TABLE 1 Specific Issues for the SPARC Enterprise T2000 Server (5 of 6)

CR ID	Description	Workaround
n/a	When the following devices are connected with <code>ttya</code> (Dsub 9pin) on SPARC Enterprise T1000 or T2000 servers, you cannot log into the ALOM console. <ul style="list-style-type: none"> • SH4124T (Dsub 9pin) • Cisco Catalyst2960 (RJ-45) • SPARC Enterprise T2000 Server (Dsub 9pin) 	Log into the ALOM console with nothing connected with <code>ttya</code> (Dsub 9pin). Or, connect to ALOM with an RJ-45 cable when you use it.
6542956	False warnings in the <code>showenvironment</code> table. This occurs because the <code>showenvironment</code> command, to provide timely results, does not perform value averaging. Thus, it could appear that a sensor or environmental reading exceeded a threshold and did not generate a fault. If this occurs, system logs and the <code>showenvironment</code> table will not match.	Currently no workaround available. If no warning or error message appears in the system logs, this WARNING status can be ignored.
6757066	After downgrading System Firmware 6.6.X or later to System Firmware 6.3.X or earlier, the <code>showhost</code> command output displays the firmware information prior to the downgrade. It has no impact on the operation, as system is actually working with the downgraded firmware. Ignore the display. <code>showhost</code> output example: <pre>sc> showhost SPARC-Enterprise-T2000 System Firmware 6.3.12 2008/04/06 15:49 Host flash versions: Hypervisor 1.3.4 2007/03/28 06:03 OBP 4.25.12 2008/03/23 13:27 POST 4.25.12 2008/03/23 13:52 Hypervisor 1.6.7.a 2008/09/29 09:29 <-- POST 4.29.0.a 2008/09/15 12:26 <--</pre>	None.
6834363	While Solaris OS is running, when you use the <code>poweroff</code> command of the system controller to order the system power-off, panic occurs in Solaris OS and the system power stops.	Note -Fixed in System Firmware 6.7.8 or later. Use the <code>shutdown</code> command to stop Solaris OS and then execute the system power-off order of the system controller.

TABLE 1 Specific Issues for the SPARC Enterprise T2000 Server (6 of 6)

CR ID	Description	Workaround
6781815	<p>After the ALOM reset or the power cable removal and insertion, when the server powered on, Solaris OS startup at the <code>ok</code> prompt of OBP (OpenBoot PROM) using the <code>boot</code> command may fail.</p> <p>Error output example:</p> <pre>{0} ok boot ERROR: All device paths in boot-device have failed. (*) {0} ok</pre> <p>It cannot refer to the device paths that configured in the OBP environmental variable <code>boot-device</code> and fails to start Solaris OS.</p>	<p>Note - Fixed in System Firmware 6.7.5 or later.</p> <p>After the ALOM reset or the power cable removal and insertion, when you power on the server, check the OBP environmental variable. Especially, in case the OBP environmental variable <code>use-nvramrc?</code> has been set to true, it is necessary in advance of starting the OS to see the <code>ok</code> prompt and check that <code>use-nvramrc?</code> has been set to true and then execute the <code>boot</code> command.</p> <p>Confirmation example:</p> <pre>{0} ok printenv use-nvramrc? use-nvramrc? = true {0} ok</pre>
6886045	<p>Start of the FMA (Fault Management Architecture) service may not complete. And due to the derived event, the Solaris OS shutdown may not terminate. For details, see “Start of FMA Service May Not Complete (CR 6886045)” on page 13.</p>	<p>Note - Fixed in System Firmware 6.7.8 or later.</p> <p>None.</p>
6875992	<p>During system operation, an event may repeatedly occur that the server internal fan shows the failed state (log: <code>"SYS_FAN at FT0/FMx has FAILED."</code>) and then gets back to normal (log: <code>"SYS_FAN at FT0/FM1 is OK."</code>) one second later. For details, see “Repeatedly Occurs an Event of Internal Fan Status Error Which Gets Back to Normal One Second Later (CR 6875992)” on page 14.</p>	<p>Note - Fixed in System Firmware 6.7.8 or later.</p> <p>Ignore the output message.</p>

Start of FMA Service May Not Complete (CR 6886045)

This issue has been fixed in System Firmware 6.7.8 or later.

Start of the FMA (Fault Management Architecture) service may not complete. And due to the derived event, the Solaris OS shutdown may not terminate.

Event 1)

Start of the Fault Management Architecture (FMA) service may not complete. When you executed the `svcs (1M)` command and the FMA service is offline, and if there exist two `fmd` processes as the `ps (1M)` command execution result, this event has been occurred.

Command output example of Event 1):

```
# svcsvcs svc:/system/fmd:default
STATE          STIME          FMRI
offline*       14:44:42      svc:/system/fmd:default

# ps -ef | grep fmd
root  665  606  0 14:44:44 ?          0:00 /usr/lib/fm/fmd/fmd
root  606   7  0 14:44:43 ?          0:00 /usr/lib/fm/fmd/fmd
root 10898  476  0 08:58:47 console  0:00 grep fmd
```

Event 2)

After the above Event 1) occurred, when you execute the system shutdown and restart using the `shutdown(1M)` command and the `init(1M)` command, the Solaris OS shutdown may be suspended.

Example of Event 2) using the `shutdown(1M) -i0` option:

```
# /usr/sbin/shutdown -y -i0 -g0

Shutdown started.      Thu Oct 22 18:21:03 JST 2009

Changing to init state 6 - please wait
Broadcast Message from root (console) on xxxxx Thu Oct 22 18:21:...
THE SYSTEM xxxxx IS BEING SHUT DOWN NOW ! ! !
Log off now or risk your files being damaged
*snip*
svc.startd: The system is coming down.  Please wait.
svc.startd: 105 system services are now being stopped.
Oct 22 18:22:13 xxxxx syslogd: going down on signal 15

<-- Shutdown stops at this point and does not shift to ok prompt.
```

To recover from this event, system restart by forced panic is required. If not recovered, reset ALOM.

Workaround: None.

Repeatedly Occurs an Event of Internal Fan Status Error Which Gets Back to Normal One Second Later (CR 6875992)

This issue has been fixed in System Firmware 6.7.8 or later.

During system operation, an event may repeatedly occur that the server internal fan shows the failed state (log: "SYS_FAN at FT0/FMx has FAILED.") and then gets back to normal (log: "SYS_FAN at FT0/FM1 is OK.") one second later.

Output example (Excerpt from the showlogs command result of ALOM):

```
JAN 26 15:36:25: 00040066: "SYS_FAN at FT0/FM1 has FAILED."  
JAN 26 15:36:26: 00040065: "SYS_FAN at FT0/FM1 is OK."  
JAN 31 06:11:56: 00040066: "SYS_FAN at FT0/FM1 has FAILED."  
JAN 31 06:11:57: 00040065: "SYS_FAN at FT0/FM1 is OK."  
FEB 12 01:59:20: 00040066: "SYS_FAN at FT0/FM1 has FAILED."  
FEB 12 01:59:21: 00040065: "SYS_FAN at FT0/FM1 is OK."  
FEB 13 22:12:24: 00040066: "SYS_FAN at FT0/FM1 has FAILED."  
FEB 13 22:12:25: 00040065: "SYS_FAN at FT0/FM1 is OK."  
FEB 13 22:39:20: 00040066: "SYS_FAN at FT0/FM2 has FAILED."  
FEB 13 22:39:21: 00040065: "SYS_FAN at FT0/FM2 is OK."  
FEB 15 23:38:34: 00040066: "SYS_FAN at FT0/FM2 has FAILED."  
FEB 15 23:38:35: 00040065: "SYS_FAN at FT0/FM2 is OK."
```

Or, the "FAILED" status may repeatedly appear as below.

Output example (Excerpt from the showlogs command result of ALOM):

```
AUG 24 05:05:09: 00040066: "SYS_FAN at FT0/FM0 has FAILED."  
AUG 24 05:08:21: 00040066: "SYS_FAN at FT0/FM1 has FAILED."  
AUG 24 05:09:35: 00040066: "SYS_FAN at FT0/FM2 has FAILED."  
AUG 24 05:47:41: 00040066: "SYS_FAN at FT0/FM0 has FAILED."  
AUG 24 05:50:40: 00040066: "SYS_FAN at FT0/FM0 has FAILED."  
AUG 24 06:11:53: 00040066: "SYS_FAN at FT0/FM1 has FAILED."  
AUG 24 06:55:30: 00040066: "SYS_FAN at FT0/FM2 has FAILED."  
AUG 24 07:30:58: 00040066: "SYS_FAN at FT0/FM0 has FAILED."  
AUG 24 07:36:15: 00040066: "SYS_FAN at FT0/FM0 has FAILED."  
AUG 24 07:45:20: 00040066: "SYS_FAN at FT0/FM1 has FAILED."
```

In each case, the showfaults and the showenvironment command results are normal.

The showfaults command result:

```
sc> showfaults -v
Last POST run: MON JAN 04 02:10:35 2010
POST status: Passed all devices

No failures found in System

sc>
```

The showenvironment command result:

```
sc> showenvironment
:
-----
Fans Status:
-----
Fans (Speeds Revolution Per Minute):
Sensor          Status          Speed   Warn   Low
-----
FT0/FM0         OK              3556   --    1920
FT0/FM1         OK              3409   --    1920
FT0/FM2         OK              3495   --    1920
FT2             OK              2484   --    1900
-----
:
```

Workaround: Ignore the output message.

Documentation Errata

Advanced Lights out Management (ALOM) CMT v1.3 Guide

Error Regarding Date Synchronization

There is an error in the documentation of the `showdate` command in published versions of the ALOM CMT guide. The erroneous text follows:

Displays the ALOM CMT date. The Solaris OS and ALOM CMT time are synchronized, but ALOM CMT time is expressed in Coordinated Universal Time (UTC) rather than local time.

The correct text should be:

Displays the ALOM CMT date. ALOM CMT time is expressed in Coordinated Universal Time (UTC) rather than local time. The Solaris OS and ALOM CMT time are not synchronized.

SPARC Enterprise T2000 Server Installation Guide

Typographic Error in "To Boot the Solaris Operating System"

There might be a typographical error in the translated versions of the *SPARC Enterprise T2000 Server Installation Guide*. The error is not present in the English version.

The error is located in Chapter 3, in the section titled, "To Boot the Solaris Operating system", in the example in Step 2.

The incorrect example shows the following:

```
ok boot / pci@7c0/pci@0/pci@2/pci@0,2/LSILogic,sas@4/disk@0,0p
```

There is a space after the first / that should not be there.

The following line shows the correct example:

```
ok boot /pci@7c0/pci@0/pci@2/pci@0,2/LSILogic,sas@4/disk@0,0p
```



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