



SPARC® Enterprise T1000 Server Product Notes

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Preface

These product notes contain important and late-breaking information about the SPARC® Enterprise T1000 server hardware, software, or documentation that became known after the documentation set was published. This document includes these sections:

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

Technical Support

If you have technical questions or issues that are not addressed in the SPARC Enterprise T1000 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 T1000 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 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 T1000 server are provided in the SPARC Enterprise T1000 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 T1000 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, and forward it to a sales representative or a certified service engineer.

Please include the title and part number of your document with your feedback.

Important Information About the SPARC Enterprise T1000 Server

These product notes contain important and late-breaking information about the SPARC Enterprise T1000 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](#)

Note – Information in these product notes supersedes the information in the SPARC Enterprise T1000 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 T1000 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 T1000 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 T1000 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 T1000 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.

Chassis Cover Might Be Difficult to Remove (CR 6376423)

The chassis cover might be very difficult to remove. If you press too hard on the cover lock button, the front edge of the cover might warp and bind. Also, elastic gasket material on the sides of the chassis might prevent the cover from sliding freely.

To remove the cover, lightly hold down the cover lock button and push the cover slightly toward the *front* of the chassis (this assists the unlocking action), then slide the cover approximately one half inch (12 mm) toward the rear of the chassis. You can now lift the cover off the chassis.

General Functionality Issues

These are the functionality issues for this release.

RAID Function

A hardware RAID function is provided as standard in SPARC Enterprise T1000 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)

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-8000-0W occurs, refer to the instructions at: <http://www.sun.com/msg/FMD-8000-0W>.

Supported Sun Explorer Utility Version

The SPARC Enterprise T1000 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 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.

System Will Not Power On With an Invalid Memory Configuration (CR 6300114)

The system will not power on if memory rank 0 is not populated. Rank 0 sockets must always be filled.

Disk Drive Write Cache Enabled By Default

Read caching and write caching are both enabled by default for the SPARC Enterprise T1000 server disk drive (this issue applies to SATA drives only). The use of the caches increases the read and write performance of the disk drive. However, data in the write cache might be lost if system AC power is interrupted. (A loss of AC power does not present a problem for the read cache.)

If you prefer to disable write caching, use the Solaris `format -e` command:



Caution – These settings are not saved permanently. You must reset the write cache setting every time the system boots.

▼ To Disable the Write Cache

1. In the Solaris environment, enter the format expert mode by typing:

```
# format -e  
Searching for disks...done  
AVAILABLE DISK SELECTIONS:  
    0. c0t0d0 <ATA-HDS ...
```

2. Specify disk number 0.

```
Specify disk (enter its number): 0  
selecting c0t0d0  
...
```

The format menu is displayed.

3. Select the cache option by typing:

```
format> cache
```

4. Select the write_cache option by typing:

```
cache> write_cache  
WRITE_CACHE MENU:  
...
```

5. Display the current setting for the write cache.

```
write_cache> display  
Write Cache is enabled
```

6. Disable the write cache.

```
write_cache> disable  
This setting is valid until next reset only. It is not saved  
permanently.
```

7. Verify the new setting.

```
write_cache> display  
Write Cache is disabled
```

8. Exit from the write_cache mode.

```
write_cache> quit  
CACHE MENU:  
...
```

9. Exit from the cache mode.

```
cache> quit  
FORMAT MENU:  
...
```

10. Exit from the format command.

```
format> quit
```

Specific Issues and Workarounds

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

TABLE 1 Specific Issues and Workarounds (1 of 3)

CR ID	Description	Workaround
6297813	Upon boot up, the following messages might be displayed: <ul style="list-style-type: none">• <code>svc.startd[7]: [ID 122153 daemon.warning]</code> <code>svc:/system/power:default: Method or service exit timed out. Killing contract 51.</code>• <code>svc.startd[7]: [ID 636263 daemon.warning]</code> <code>svc:/system/power:default: Method "/lib/svc/method/svc-power start" failed due to signal KILL.</code>	If Solaris power management is required, restart power management manually or reboot the server. If Solaris power management is not required, no action is needed.
6310384	The SunVTS USB keyboard test (<code>usbtest</code>) might report that a keyboard is present when there is no keyboard attached to the server.	Do not run <code>usbtest</code> .
6314590	Executing the ALOM CMT <code>break</code> command and the OpenBoot PROM <code>go</code> command might cause the system to hang or panic.	If the console hangs or panics, use the ALOM CMT <code>reset</code> command to reset the system.
6317382	Typing unrecognized commands or words at the OBP prompt causes the system to return an erroneous error and might hang the server. This behavior only occurs when you drop into the OBP prompt from Solaris. The erroneous error message is: <code>ERROR: Last Trap</code>	Disregard this message. If the console hangs or panics, use the ALOM CMT <code>reset</code> command to reset the system.
6318208	POST or OBP <code>reset-all</code> generates the alert, <code>Host system has shut down.</code>	This is normal behavior following a <code>reset-all</code> command. The message does not indicate a problem in this situation.
6331819	SunVTS memory or CPU tests could fail due to lack of system resources. When too many instances of SunVTS functional tests are run in parallel on UltraSPARC® T1 CMT CPU-based (sun4v) entry-level servers with low memory configurations, SunVTS tests might fail due to lack of system resources. For example, you could see an error message similar to the following: <code>System call fork failed; Resource temporarily unavailable</code>	Workaround: Decrease the number of SunVTS test instances or perform SunVTS functional tests separately. In addition, you can increase the delay value for CPU tests or increase the test memory reserve space.

TABLE 1 Specific Issues and Workarounds (2 of 3)

CR ID	Description	Workaround
6346149	The maximum throughput of the system network ports decreases unexpectedly as the network load increases.	There is no workaround at this time.
6346170	The ALOM CMT <code>showfru</code> command displays epoch timestamps of <code>THU JAN 01 00:00:00 1970</code> .	Ignore timestamps with this date. There is no workaround at this time.
6348070	False Ereport error messages might be generated for PCI devices.	There is no workaround at this time.
6356449	The <code>poweron</code> command does not power on the system when issued immediately after the ALOM CMT resets.	If you use a script to reset the ALOM-CMT and power on the system, insert a 1-second delay before the <code>poweron</code> command.
6363820	The <code>showcomponent</code> command hangs if you repeatedly loop on the <code>disablecomponent</code> and <code>enablecomponent</code> commands.	Reset ALOM-CMT with the <code>resetsc</code> command.
6368944	The virtual-console does not accept paste buffers that are greater than 114 characters. This causes the <code>wanboot</code> NVRAM parameter, <code>network-boot-arguments</code> to not be set.	Cut and paste in chunks smaller than 114 characters, or don't use cut and paste.
6370233	The Dtrace function might return inaccurate CPU xcalls.	Although they are not stable interfaces, putting Dtrace fbt probes on <code>send_one_mondo</code> and <code>send_mondo_set</code> could be used as a workaround. For <code>send_mondo_set</code> , extract the number of CPUs being sent cross calls from the <code>cpuset_t</code> argument.
6372709	The maximum size of the FMA <code>fltlog</code> file might be restricted.	Remove the restrictions by changing the default log rotation options for the Solaris <code>logadm(1M)</code> command.
6376423	The chassis cover might be extremely difficult to remove.	See “Chassis Cover Might Be Difficult to Remove (CR 6376423)” on page 4.
6389912	False error messages are logged during <code>poweron</code> or system reset. The error messages include this segment: <code>ereport.io.fire.pec.lup</code>	Ignore the messages.
6405226	When accessing the host through the ALOM-CMT <code>console</code> 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.
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: <code>set pcie:pcie_aer_ce_mask = 0x2001</code>

TABLE 1 Specific Issues and Workarounds (3 of 3)

CR ID	Description	Workaround
6538717	The <code>showfru</code> command reports Micron DIMMs as Seagate DIMMs. For example: [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	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: <code>sc> ssh-keygen -l -t rsa</code> Fingerprint file cant be opened error 380003 This error message should read as follows: ssh is not enabled.	Enable SSH.
6472072	When a panic dump is taken by <code>Break-D</code> of ALOM, the panic message displays as follows: Unrecoverable hardware error.	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).
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.

Documentation Errata

Error Regarding Date Synchronization in the ALOM CMT Guide

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.

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