



Sun SPARC® Enterprise T1000 Server Product Notes

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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:

- “Support for the SPARC Enterprise T1000 Server” on page 1
- “Supported Versions of Firmware and Software” on page 2
- “Patch Information” on page 3
- “Known Issues and Workarounds” on page 4

Support for the SPARC Enterprise T1000 Server

This section includes where to obtain technical support, software, and documentation.

Technical Support

If you have any technical questions or issues that are not addressed in the SPARC Enterprise T1000 server documentation, contact your local support services representative. For customers in the U.S. or Canada, call 1-800-USA-4SUN (1-800-872-4786). For customers in the rest of the world, find the World Wide Solution Center nearest you by visiting the web site:

<http://www.sun.com/service/contacting/solution.html>

Software Resources

The Solaris™ Operating System and Sun Java™ Enterprise System software are preinstalled on your SPARC Enterprise T1000 server.

If it becomes necessary to reload the software, go to the following web site. You will find instructions for downloading software.

<http://www.sun.com/software/preinstall/>

Downloading Documentation

Instructions for installing, administering, and using your SPARC Enterprise T1000 server are provided in the SPARC Enterprise T1000 server documentation set. The entire documentation set is available for download from the following web site:

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

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

Firmware updates are available from SunSolveSM (sunsolve.sun.com) through patch releases. 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 – Before contacting support, ensure that all mandatory patches are installed on your server. In addition to installing these patches, check the SunSolve web site on a regular basis for the availability of new patches.

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

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.**

General Functionality Issues

These are the functionality issues for this release.

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.

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.

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 SUNWexpl0
```

If an earlier version exists, uninstall it and install version 5.7, or later. To download Sun Explorer 5.7, go to:

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

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 for which a change request ID (CR ID, formerly known as a bug ID) has been assigned. The table also lists possible workarounds for these issues.

TABLE 1 Specific Issues and Workarounds (1 of 4)

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 4)

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. The FMA diagnostic software required to eliminate false Ereports for PCI devices is still under development.
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 <code>Dtrace</code> function might return inaccurate CPU <code>xcalls</code> .	Although they are not stable interfaces, putting <code>Dtrace fbt</code> 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 5 .
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 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.

TABLE 1 Specific Issues and Workarounds (3 of 4)

CR ID	Description	Workaround
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 /etc/system File Entry” on page 4.
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.

TABLE 1 Specific Issues and Workarounds (4 of 4)

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 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.
6542956	Under heavy load, systems with UltraSPARC T1 1.4GHz processors could display false warnings in the <code>MB/V_VCORE</code> parameter of 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.

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.

