



Sun SPARC® Enterprise M3000 Server Product Notes

For XCP Version 1080

Sun Microsystems, Inc.
www.sun.com

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Product Notes

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

Software Resources

The Solaris™ Operating System is preinstalled on your Sun SPARC Enterprise M3000 server.

Latest Solaris Patches

No patches are required for servers running the Solaris 10 10/08 OS.

Additional Information

For additional information, see the release notes for the version of the Solaris OS that you are using, as well as the Big Admin web site:

<http://www.bigadmin.com>

General Information About XCP 1080

This section includes the following sections:

- [“Supported Firmware and Software Versions”](#) on page 3
- [“Solaris Information”](#) on page 4
- [“Functionality Issues and Limitations”](#) on page 5
- [“Additional Information and Procedures”](#) on page 6

Supported Firmware and Software Versions

[TABLE 1](#) lists the firmware and operating system (OS) versions that are supported in this release.

XCP 1080 is the first XCP release for the Sun SPARC Enterprise M3000 Server.

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

Firmware and Operating System	Version
XSCF Control Package (XCP)	XCP 1080
Solaris Operating System	Solaris 10 10/08

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

TABLE 2 Tested Web Browser Versions

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

Solaris Information

No patches are required for servers running the Solaris 10 10/08 OS.

For additional Solaris OS information see [“Solaris OS Issues and Workarounds” on page 12](#).

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 Fibre Channel PCIe HBA
- XSEFC401AF Sun StorageTek Enterprise Class 4-gigabit Single-Port Fibre Channel PCIeHBA

Functionality Issues and Limitations

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

General Functionality Issues and Limitations

- 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.
- To use XSCF Web, disable the cache function of your browser. If you leave the browser cache function enabled, the old cached data might be displayed. To disable the cache function:
 - Internet Explorer 6 & 7
Tools->Internet Options...->Advanced tab and check the "Do not save encrypted pages to disk" box.
 - Firefox 2 & 3
Type "about:config" in address box, then type "cache" in filter box.
Change the "browser.cache.check.doc.frequency" settings value to 1.
- 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 occur.

Additional Information and Procedures

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

Logging Into 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 server's 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 M3000 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
```

Identifying System Memory

▼ Identifying Degraded Memory in a System

- Log in to XSCF and type:

```
XSCF> showstatus
```

The following example indicates that DIMM number 0A on the motherboard unit has degraded memory.

```
XSCF> showstatus
      MBU_A Status:Normal;
*     MEM#0A Status:Degraded;
```

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 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>

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.

▼ Enabling the Web Console SMF Service

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

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

Information About Software

This section includes the following sections:

- [“XCP Issues and Workarounds” on page 9](#)
- [“Solaris OS Issues and Workarounds” on page 12](#)
- [“Documentation Updates” on page 15](#)

XCP Issues and Workarounds

[TABLE 3](#) lists XCP issues and possible workarounds.

TABLE 3 XCP Issues and Workarounds (1 of 3)

ID	Description	Workaround
6565422	The latest communication field in the <code>showarchiving(8)</code> command is not updated regularly.	Disabling and re-enabling archiving refreshes the latest communication field in <code>showarchiving(8)</code> output.
6624646	Sun Connection Update Manager GUI might fail to register correctly.	Use the CLI if you run into any GUI registration issues.
6723305	The XSCF Web does not show the correct daylight saving time.	No workaround is available. Use the <code>showlogs(8)</code> command to determine time during daylight savings time.
6726679	SNMP trap is not sent after XSCF watchdog time out. This occurs intermittently. SNMP traps will not be notified after the watchdog timeout occurs in XSCF and XSCF reset.	No workaround is available.
6735711	<code>setemailreport(8)</code> command cannot handle recipient email addresses that are longer than 255 characters.	Use email address with fewer than 255 characters.

TABLE 3 XCP Issues and Workarounds (2 of 3)

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>	<p>Poweroff and poweron the chassis, then retry the operation.</p>
6741770	<p>SNMP trap host configuration changes are not valid until <code>setsnmp disable</code> and <code>setsnmp enable</code>.</p>	<p>Modify the SNMP setting: XSCF> setsnmp disable XSCF> setsnmp enable</p>
6741895	<p>When FRUs are cold-replaced (with the system off), (after <code>poweron</code>) the monitor process might not generate entries in the monitor log identifying the replacement operation that has occurred.</p>	<p>No workaround is available.</p>
6742395	<p>Power failure at the commercial AC supply connector to the UPS does not send notification/send trap.</p>	<p>No workaround is available.</p>
6742502	<p>The browser interface displays only the last two digits of the non-audit log size limit.</p>	<p>Do not set Archive Log limit to '0'. Use the <code>showarchiving(8)</code> command to determine log size limit.</p>
6742951	<p>The <code>setlogarchiving(8)</code> command accepts '-1' for the Audit log limit and then sets the limit as "Unlimited".</p>	<p>No workaround is available.</p>
6743842	<p>The <code>password</code> command indicates that the <code>[user]</code> operand is optional but will fail if a <code>[user]</code> operand is not included when other options are specified.</p>	<p>No workaround is available.</p> <p>Specify the <code>[user]</code> operand to use the <code>password</code> command when you specify other options.</p>
6744772	<p>Logs will not be archived when <code>logarchiving</code> limits are exceeded, and there is no warning message to indicate that logs are no longer being archived.</p>	<p>Periodically, run the <code>showarchiving(8)</code> command and adjust limits as needed.</p> <p>Or, as the used log archiving space approaches the defined limit manually rotate the existing logs on the log archiving host.</p>

TABLE 3 XCP Issues and Workarounds (3 of 3)

ID	Description	Workaround
6755112	During the domain operation, after the XSCF reset due to the XSCF unit failure, the hardware status shows Deconfigure in the status of CPU and memory.	Replace the motherboard unit only. When no failure is found on the memory, you do not need to replace the memory.
6755113	During the firmware update, there might be the following output message and a XSCF panic might occur. kernel BUG in jffs2_do_read_inode at fs/jffs2/readinode.c:XXX!	Reset XSCF and use the <code>flashupdate(8)</code> command again.
6755986	In Internet Explorer 6 or 7, clicking on the [Reset] button then the [OK] button from the Settings->Audit->Add Policy popup screen will log the user out with message: Error Session Error Session ID has been expired	Log back into the browser interface and use the backspace key to clear text in the 'User' text box of the popup screen instead of using the Reset button.
6757064	The error log "XSCF FMEM write error" recorded and the firmware update might fail.	Power off (AC OFF) the system, and power on (AC ON) again. Then, re-execute the firmware update.
6757614	The network configuration on the XSCF Web does not support the function equivalent to the <code>setnetwork -r</code> option. And when you specified localhost or localdomain to the host name or the domain name, the error message "SessionID has expired" appears.	Use the <code>setnetwork -r</code> command on the XSCF shell.
6761674	The first usage of the OBP command <code>probe-scsi-all</code> might not show all devices connected via the external SAS port.	Retry the <code>probe-scsi-all</code> command.

Solaris OS Issues and Workarounds

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

Solaris Issues for All Supported Releases

[TABLE 4](#) lists Solaris OS issues that you might encounter in any supported release of Solaris OS.

TABLE 4 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. # svccfg -s dscp setprop start/timeout_seconds=count: 300 # svccfg -s volfs setprop start/timeout_seconds=count: 300 # svcadm refresh dscp # svcadm refresh volfs
6572827	The <code>prtdiag -v</code> command reports PCI buss types incorrectly. It reports "PCI" for PCI-X leaf devices and "UNKN" for legacy PCI devices.	No workaround is available.
6623226	lockstat(1M) 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.

TABLE 4 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: <hostname> 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 <EVENT- ID></code> to locate the module. Use <code>fmadm reset <module></code> to reset the module</pre>	<p>If <code>fmd</code> service fails, issue the following command on the domain to recover:</p> <pre># svcadm clear fmd</pre> <p>Then restart <code>cpumem-diagnosis</code>:</p> <pre># fmadm restart cpumem-diagnosis</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># <code>fmadm repair <i>fmri</i> <i>uuid</i></code> # <code>fmadm rotate</code></pre>
6723202	<p>The <code>raidctl</code> command cannot be used to create a hardware RAID using the onboard SAS/LSI controller on the M3000 server.</p> <p>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.</p>	<p>No workaround is available. This issue will not be fixed.</p>

TABLE 4 Solaris OS Issues and Workarounds for All Supported Releases (3 of 3)

CR ID	Description	Workaround
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.
6745410	Boot program ignores the <code>kaadb</code> option which causes the system not to boot.	Use <code>kmdb</code> instead of <code>kaadb</code> .
6765239	If a SAS device containing multiple SAS targets is connected to the external SAS port, it will not work properly. The enumeration of target IDs within the device may change across reboots.	Do not connect a device containing multiple SAS targets to the external SAS port. Use a Sun StorageTek Host Bus Adaptor (SG-XPcie8SAS-E-Z). Alternatively, check for the availability of a patch for this defect.

Documentation Updates

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

The corrections for *Sun SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual*, if not otherwise specified, also apply to the man pages, which XSCF provides. These corrections supersede the information on the man pages.

TABLE 5 lists known documentation corrections.

TABLE 5 Documentation Corrections

Document	Issue	Change
<i>Sun SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual</i> and XSCF man pages	<code>traceroute(8)</code> command	The following description appears under Privileges but is incorrect: <ul style="list-style-type: none">To execute the command to DSCP address: <code>fieldeng</code> The following description should appear under OPERANDS but does not: When used to specify DSCP address to host, an error occurs.
<i>Sun SPARC Enterprise M3000/M4000/M5000/M8000/M9000 XSCF User's Guide</i>	<code>setloginlockout(8)</code> <code>showloginlockout(8)</code> command	These commands are not available in this XCP release.
<i>Sun SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Administration Guide</i>	<code>setloginlockout(8)</code> <code>showloginlockout(8)</code> command	These commands are not available in this XCP release.

