FUJITSU

# SPARC® Enterprise M3000 Server Product Notes

For XCP Version 1080

Manual Code C120-E570-01EN
Part No. 820-6305-10
October 2008, Revision A

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# Contents

# Preface

These product notes contain late-breaking information about the SPARC® Enterprise M3000 server hardware, software, or documentation that became known after the documentation set was published.

## Technical Support

If you have technical questions or issues that are not addressed in the SPARC Enterprise M3000 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 M3000 server.

Contact a sales representative or a certified service engineer for software resources for your SPARC Enterprise M3000 server.

**Note –** For latest patch information go to:
**Global Site**
http://www.fujitsu.com/global/support/software/security/products-s/patch-info/
**Japanese Site**
https://software.fujitsu.com/jp/security/products-others/unix/
**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 M3000 server is provided in the SPARC Enterprise M3000 server documentation set. The documentation set is available for download from the following website:

**Global Site**
http://www.fujitsu.com/sparcenterprise/manual/

**Japanese Site**
http://primeserver.fujitsu.com/sparcenterprise/manual/

**North American Site**
https://download.computers.us.fujitsu.com/

**Note –** Information in these product notes supersedes the information in the SPARC Enterprise M3000 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

# General Information About XCP 1080

This section describes the general information about XCP 1080.



## Supported Firmware and Software

The following firmware and operating system (OS) are supported in this release.

XCP 1080 is first XCP release for SPARC Enterprise M3000 server.

**TABLE 1** Firmware and Operating System Versions

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

For XCP, you can download the latest files of firmware at the following websites.

Global Site:
http://www.fujitsu.com/sparcenterprise/firmware/

Japanese Site:
http://primeserver.fujitsu.com/sparcenterprise/download/firmware/

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 |
|---|---|
| Microsoft® Internet Explorer | 6.0 and 7.0 |
| Netscape Navigator™ | 7.*x* |
| Firefox (Solaris 10) | 2.0 |

# Solaris OS Patch 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 9.

## Patches for Emulex PCI Express (PCIe) Cards

The following Emulex cards require drivers supplied in patch 120222-26:

- XSEFC402AF Sun StorageTek Enterprise Class 4Gb Dual-Port Fibre Channel PCI-E HBA
- XSEFC401AF Sun StorageTek Enterprise Class 4Gb Single-Port Fibre Channel PCI-E HBA

# Functionality Issues and Limitations

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

## General Functionality Issues and Limitations

- At this time XSCF does not support the Log Archiving feature.
- At this time XSCF does not support the login lockout feature (`setloginlockout`(8) `/showloginlockout`(8)).
- When using XSCF as the NTP server of the domain, configure it so as not to block the ICMP protocol of the DNS server and the NTP server which the XSCF refers to.
- 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).
- We recommend the domain to use the XSCF Unit as NTP server. In this case, pay attention to the following points:
  - XSCF must be connected to an external NTP server
  - When you connect one or more NTP servers in addition to XSCF, connect the same NTP server as XSCF is using

  For details on NTP server, contact a service engineer. For details on NTP settings, refer to the *SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF User's Guide*.
- 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`.
- The Firefox 3 is not supported in 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 funtion:
  - Internet Explorer 6 and 7

    [Tools] -> [Internet Options...] -> [Advanced] tab and check the "Do not save encrypted pages to disk" box.
  - Netscape 7.1 or later

[Edit] -> [Preferences] -> [Advanced] -> [Cache] -> [Compare the page in the cache to the page on the network] setting and select the "Every time I view the page" radio button.

- Firefox 2

  Type "`about:config`" in address box, then type "`cache`" in filter box. Change the "browser.cache.check_doc_frequency" settings value to "`1`."

- Using the XSCF Web, when you import XCP or update the firmware, Session ID error may be displayed on the web browser. And in the Autologout setting, when you specify the timeout period as over 30 minutes, Internal Server Error might be displayed when you perform the firmware update. Please close the current browser and open the new browser to reconnect to XSCF Web.
- When you use the XSCF Web, if a plug-in such as the search tool installed with the browser, remove the plug-in or disable the pop-up blocking.
- XSCF-LAN is compliant with auto-negotiation. When you connect XSCF-LAN and the network device which has been fixed to the full-duplex mode, according to the IEEE 802.3 rule, XSCF-LAN communicates in the half-duplex mode. Due to this, network communication speed may slow down or communication error may occur. Do not fail to set the network device which connects with XSCF-LAN to the auto-negotiation mode.
- At this time the `restoredefaults`(8) command is not supported.

# Information About Hardware

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



## Notes on DVD Drive and Discs

See the "*Notes on DVD Drives and Discs in SPARC Enterprise*" on the website below before using the CD/DVD discs in the standard DVD drive mounted in this server.

URL:
`http://primeserver.fujitsu.com/sparcenterprise/manual/`

## Notes on the use of USB memory

To execute the `dumpconfig`(8), `restoreconfig`(8) or `snapshot`(8) command, if you specify USB memory as the destination to store data, prepare the USB memory as a medium in advance.
The data stored will include the information about the system. To use USB memory, you need to pay attention to the management of the USB memory in which the data stored, from the data security viewpoint.

We do not provide guarantees to every USB memory from any manufacturers that currently on the market against its connectivity to XSCF and proper operation. Depending on the USB memory in use, defects such as the XSCF firmware error or reset may occur. In case such defects occurred, stop the use of USB memory immediately.

To connect the USB memory to the USB port for XSCF, connect the USB memory directly to the USB port. If connected via USB hub or USB extension cables, it may cause errors.

# Information About Software

This section describes the special instructions and the issues about the SPARC Enterprise M3000 server software.



## XCP Issues and Workarounds

TABLE 3 lists known XCP issues and possible workarounds.

**TABLE 3** XCP Issues and Workarounds

| ID | Description | Workaround |
|---|---|---|
| RTIF1-070418-009 | While XSCF is running, a process may go down, a watchdog timeout may occur, or a hang-up may occur. After this, XSCF may reset. | Check that XSCF is started. If not started, stop the domain and then execute the system power off/on (AC OFF/ON). To turn on the system power that you turned off, wait at least 30 seconds before power-on. |
| RTIF1-070528-002 | While XSCF is running, watchdog timeout may occur and XSCF may reboot. | Check that XSCF is started. If not started, stop the domain and then execute the system power off/on (AC OFF/ON). To turn on the system power that you turned off, wait at least 30 seconds before power-on. |
| RTIF1-071102-002 | The snmp daemon might quit. | To restart the snmp daemon, issue the command `setsnmp enable`. |

**TABLE 3** XCP Issues and Workarounds *(Continued)*

| ID | Description | Workaround |
|---|---|---|
| RTIF1-080725-001 | In `setsnmp addv3traphost`, when the authentication failed due to the reasons such as the trap host not working, or the wrong user name or password, the subsequent SNMP traps will not be notified. | No workaround is available.<br>Confirm that the SNMP trap host is working and re-execute the `setsnmp`(8) command using the correct user name. |
| RTIF1-080725-002 | When the SNMPv3 trap has been set, after the watchdog timeout occurred in XSCF and XSCF reset, the subsequent SNMP traps will not be notified. | Reset the XSCF. |
| RTIF1-080725-004 | After set the Daylight Saving Time by using the XSCF shell, XSCF Web does not show the correct time in the Logs menu. | No workaround is available.<br>Use the `showlogs`(8) command of the XSCF shell. |
| RTIF1-081006-001 | 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. |
| RTIF1-081006-002 | In the `setemailreport`(8) command, when you specified over 255 characters in the SMTP address, an error results. | Do not specify over 255 characters in the SMTP address. |
| RTIF1-081006-003 | 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 found on the memory, you do not need to replace the memory. |
| RTIF1-081006-004 | During the firmware update, there might be the following output message and a XSCF panic might occur.<br>`kernel BUG in jffs2_do_read_inode at fs/jffs2/readinode.c:XXX!` | Reset XSCF and use the `flashupdate`(8) command to retry the firmware update. |
| RTIF1-081006-005 | The network configuration on the XSCF Web does not support the function equivalent to the `setnetwork -r` comand. And when you specified localhost or localdomain to the host name or the domain name, the error message "`SessionID has expired`" appears. | Use the `setnetwork -r` command on the XSCF shell. |
| RTIF1-081006-006 | The panic log on the XSCF Web might not be displayed from the top of the message. | When the output is insufficient, execute the `showlogs panic` command on the XSCF shell. |
| RTIF1-081006-007 | The `password`(8) command indicates that the [*user*] operand is optional but will fail if a [*user*] operand is not included when other options are specified. | No workaround is available.<br>Specify the *user* operand to execute the `password`(8) command when you specify other options. |

**TABLE 3** XCP Issues and Workarounds *(Continued)*

| ID | Description | Workaround |
|---|---|---|
| RTIF1-081006-011 | SNMP trap host configuration changes are not valid until `setsnmp disable` and `setsnmp enable`. | Modify the SNMP setting:<br>XSCF> `setsnmp disable`<br>XSCF> `setsnmp enable` |
| RTIF1-081016-001 | Power failure at the commercial AC supply connector to the UPS does not send notification/send trap. | No workaround is available. |
| RTIF1-081016-002 | When FRUs are cold-replaced (with the system off), (after `poweron`) the monitor process might not generate entries in the monitor message log identifying the replacement operation that has occurred. | No workaround is available. |
| RTIF1-081016-003 | In Internet Explorer 6 or 7, clicking on the [Reset] button then the [OK] button from the Settings->Audit->Add Policy poupup screen will log the user out with message:<br>`Error`<br>`Session Error`<br>`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. |

# Solaris OS Issues and Workarounds

TABLE 4 lists Solaris OS issues that you might encounter in Solaris OS.

**TABLE 4** Solaris OS Issues and Workarounds

| CR ID | Description | Workaround |
|---|---|---|
| 6481002 | Installing the Solaris OS from the network using certain PCI-Express cards may cause a panic. | If you are using a Sun PCI-E Dual Gigabit Ethernet Adapter MMF card or a Sun PCI-E Dual Gigabit Ethernet Adapter UTP card, do not install the Solaris using either of these cards. Instead, use other network devices, such as the onboard Gigabit Ethernet or another network device. |
| 6519290 | Large amounts of I/O on swap devices can cause the system to appear hung by overwhelming the I/O system. The amount of I/O required can be generated through a number of ways, eg memory shortage, heavy use of `/tmp` etc. | Set the following to `/etc/system` and then reboot the domain:<br>`set maxfastscan=0x2000` |

**TABLE 4** Solaris OS Issues and Workarounds *(Continued)*

| CR ID | Description | Workaround |
|---|---|---|
| 6531036 | The error message `network initialization failed` appears repeatedly after a boot net installation. | No workaround is available.<br>This message can be safely ignored. |
| 6532215 | volfs or dscp service may fail when domain is booted.<br><br>`svc:/platform/sun4u/dscp:default: Method "/lib/svc/method/svc-dscp start" failed with exit status 95.`<br><br>`svc:/system/filesystem/volfs:default: Method or service exit timed out. Killing contract 59.` | Restart the service if the failure is observed. To avoid the problem, issue the following commands.<br><br>`# svccfg -s dscp setprop start/timeout_seconds=count: 300`<br>`# svccfg -s volfs setprop start/timeout_seconds=count: 300`<br>`# svcadm refresh dscp`<br>`# svcadm refresh volfs` |
| 6537511 | Bluetooth partner is hung during security tests execution. | Restart application server. |
| 6572827 | The `prtdiag -v` command reports PCI bus types incorrectly. It reports "PCI" for PCI-X leaf devices and "UNKN" for legacy PCI devices. | No workaround is available. |
| 6623226 | The Solaris command `lockstat`(1M) or the dtrace lockstat provider might cause a system panic. | Do not use the Solaris `lockstat`(1M) command or the dtrace lockstat provider. |
| 6625734 | Systems with large number of processors in a single domain environment may have suboptimal performance with certain workloads. | Use processor sets to bind application processes or LWPs to groups of processors. Refer to the `psrset`(1M) man page for more information. |

**TABLE 4** Solaris OS Issues and Workarounds *(Continued)*

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

**TABLE 4** Solaris OS Issues and Workarounds *(Continued)*

| CR ID | Description | Workaround |
|---|---|---|
| 6723202 | The `raidctl` command cannot be used to create a hardware RAID using the onboard SAS/LSI controller on the SPARC Enterprise M3000 server.<br>The `raidctl` 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.<br>This issue will not be fixed. |
| 6725885 | `cfgadm` will display non-existent SPARC Enterprise M3000 system boards (SB1 to SB15). | The `cfgadm` output for SB1-SB15 can be ignored. |
| 6745410 | Boot program ignoresthe Kadb option which causes the system not to boot. | Use kmdb instead of kadb. |

# Software Documentation Updates

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

The corrections for *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 updates.

**TABLE 5** Software Documentation Updates

| Title | Page Number | Update |
|---|---|---|
| SPARC Enterprise M3000/M4000/M5000/ M8000/M9000 Servers XSCF Reference Manual and XSCF man pages | `traceroute`(8) command | The following description in Privileges is deleted:<br>• To execute the command to DSCP address:<br>`fieldeng`<br><br>The following description is added in OPERANDS:<br>When specifies DSCP address to *host*, an error occurs. |

# Identifying Degraded Memory in a System

1. **Log in to XSCF.**
2. **Type the following command:**

```
XSCF> showstatus
```

The following example identifies that DIMM number 0A on the Motherboard unit has degraded memory..

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