



SPARC® Enterprise M8000/M9000 Servers Product Notes

For XCP version 1040

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Preface

These product notes contain late-breaking information about the SPARC® Enterprise M8000/M9000 server hardware, software, or documentation that became known after the documentation set was published. For the changes since previous version, see [“Revision History” on page ix](#).

Technical Support

If you have technical questions or issues that are not addressed in the SPARC Enterprise M8000/M9000 servers 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 M8000/M9000 servers.

Contact a sales representative or a certified service engineer for software resources for your SPARC Enterprise M8000/M9000 servers.

Note – For latest patch information go to:

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 M8000/M9000 servers are provided in the SPARC Enterprise M8000/M9000 servers 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 M8000/M9000 servers 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 manual, or if you find any unclear statements in the manual, 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.

Revision History

Edition	Revised Section	Details
05	Hardware Documentation Updates	Addition of description in Hardware Documentation Updates
	Solaris Issues and Workarounds	Modification of workaround for CR ID 6459540

SPARC Enterprise M8000/M9000 Servers Product Notes

These product notes contain late-breaking information about the SPARC® Enterprise M8000/M9000 server hardware, software, or documentation that became known after the documentation set was published.

- [Supported Versions of Firmware and Software](#)
- [Patch Information](#)
- [Known Issues](#)
- [Notes for Dual eXtended System Control Facility \(XSCF\) Unit](#)
- [Hardware Installation and Service Issues](#)
- [Hardware Documentation Updates](#)
- [Software Issues](#)
- [Software Documentation Updates](#)

Supported Versions of Firmware and Software

The following firmware and software versions are supported in this release:

- XSCF Control Package (XCP) 1040 or later

Note – When the XCP version preinstalled in your server is under XCP 1040, you must upgrade to XSCF Control Package(XCP) 1040 or later. Use the web browser interface, also known as the browser user interface (BUI), to import XCP firmware and then execute the `flashupdate` command to upgrade the XCP firmware with the XSCF Shell.



Caution – CR ID #6534471: Improper handling of large page in kernel memory may cause random panics. Implement the workaround for CR ID #6534471 or check for the availability of a patch and install it immediately.

- The first version of the Solaris™ Operating System (OS) to support these servers is the Solaris 10 11/06 OS.

Patch Information

This section lists mandatory patches for the SPARC Enterprise M8000/M9000 servers.

- 118833-36 (Install 118833-36 before 125100-04.)
- 125100-04 or later
- 120068-03 or later
- 123839-07 or later
- 125424-01 or later
- 125075-01 or later

Note – See [“Software Resources” on page vii](#) for information on how to find the latest patches. Installation information and README files are included in the patch download.

Known Issues

This section describes known issues in this release.

General Functionality Issues and Limitations

- Dynamic Reconfiguration (DR) is not recommended in cases below, due to the following restrictions on the DR addboard, deleteboard, and moveboard commands. Please contact your Sales representative or Technical Support for additional information and software support.
 - The target board (SB/XSB) with permanent memory. See [“Identifying Permanent Memory in a Target Board” on page 19](#).
 - The target board (SB/XSB) with optional I/O cards because of some restrictions on specific cards.



Caution – Use of DR in an unsupported configuration might result in a domain panic or might hang the system.

- Domains using the ZFS file system can not use Reconfiguration.
- PCI Hot-plug feature is not available for this release. Please contact your sales representative or technical support for additional information and software support.
- The maximum number of IOUA (Base I/O Card) cards per domain is limited to six cards.
- On the SPARC Enterprise M8000 and M9000 servers, the dual eXtended System Control Facility (XSCF) unit (Service Processor) is not supported.
- Do not use the internal CD-RW/DVD-RW drive unit and the TAPE drive unit at the same time.
- Do not use the `cfgadm(1M)` command to add or remove a CD-RW/DVD-RW drive unit and (or) TAPE drive unit in a domain. Use the `cfgdevice(8)` to attach a CD-RW/DVD-RW drive unit and (or) TAPE drive unit to a domain prior to starting the Solaris on the domain.
- The XSCF web browser interface, also known as the browser user interface (BUI), has limited availability in this release. It can be used for importing the XSCF firmware and supports the snapshot Full log set collection function. Use the command-line interface (CLI) instead on the Service Processor and the domains for other activities.
- Capacity on Demand (COD) is not supported.
- Power off all domains before upgrading the XCP firmware.

Notes for Dual eXtended System Control Facility (XSCF) Unit

Because the dual eXtended System Control Facility (XSCF) unit is a functionality which will be supported in the future, you will find several points which are different from what is written in the documentations of SPARC Enterprise M8000 and M9000 servers.

- READY LEDs on the XSCF unit#1 for base cabinet (XSCFU_B#1) and the XSCF unit#1 for expansion cabinet (XSCFU_C#1) will keep blinking.
- You cannot sign on to XSCFU_B#1 via serial cable nor LAN.
- The XSCF command `showhardconf(8)` shows as follows:
XSCFU_B#1 Status:Normal,Offline; Ver:0000h; Serial;;
+ FRU-Part-Number;;
XSCFU_C#1 Status:Normal,Offline; Ver:0000h; Serial;;
+ FRU-Part-Number;;
- The XSCF command `switchscf(8)` always fails with displaying the following message:
XSCF cannot be switched because the other XSCF is not available.
- The XSCF command `applynetwork(8)` will display the following message, which can be safely ignored:
The other XSCF could not apply the network settings
- The XSCF command `showhostname(8)`, `setssh(8)`, `settelnet(8)`, `setntp(8)` and `sethttps(8)` will display the following message, which can be safely ignored:
Cannot communicate with the other XSCF. Check the other XSCF's state.
- Don't connect LAN cable to XSCFU_B#1.
To connect the expansion cabinet on the SPARC Enterprise M9000 server, connect XSCFU_B#1 and XSCFU_C#1 by using the data cable (Note).

Note – Data cable is the cable connected to each connector which connects the XSCF unit for base cabinet and the XSCF unit for expansion cabinet.

- The Remote Cabinet Interface (RCI) functionality for the XSCFU_B#1 is not supported.
Do not connect and do not set the RCI device to the XSCFU_B#1.

Hardware Installation and Service Issues

This section describes hardware specific issues and workarounds.

Specific Issues and Workarounds

[TABLE 1](#) lists known hardware issues and possible workarounds.

TABLE 1 Hardware Issues and Workarounds


CR ID	Description	Workaround
6433420	The domain console might display a Mailbox timeout or IOCB interrupt timeout error during boot.	Issue a <code>reset-all</code> command from the OBP (OK) prompt and reboot.
6488846	During boot, the domain console might display a checksum error for the SG(X)PCI2SCSIU320-Z SCSI controller I/O card.	Check for the availability of the latest controller card firmware.

Hardware Documentation Updates

TABLE 2 lists known documentation updates.

TABLE 2 Documentation Updates

Title	Page Number	Update
All SPARC Enterprise M8000/M9000 servers documentation		All DVD references are now referred to as CD-RW/DVD-RW.
SPARC Enterprise M8000/M9000 Servers Overview Guide	1-8	TABLE 1-1 "Main Unit Specifications" Main storage (memory module) describes the maximum capacity when 8GB DIMM mounted; however, 8GB DIMM can't be mounted at this time.
SPARC Enterprise M8000/M9000 Servers Overview Guide	1-21	1.3.3, "I/O Unit" It describes the types of LAN port as "1000BASE-T/100Base-TX/100Base-T," which should be modified as "1000Base-T/100Base-TX/10Base-T."
SPARC Enterprise M8000/M9000 Servers Overview Guide	1-26	1.5.3, "SPARC Enterprise M9000 Server (Expansion Cabinet Option)" It describes that the configuration can contain "up to 2B," which should be modified as "2TB." The memory size described here is the maximum capacity when 8GB DIMM mounted; however, 8GB DIMM can't be mounted at this time.
SPARC Enterprise M8000/M9000 Servers Service Manual	4-3	4.2.1.2, "Disconnecting a PCI card" The following caution will be added.



Caution – In the PCI cassette part, when removing cables such as LAN cable, if your finger can't reach the latch lock of the connector, press the latch with a flathead screwdriver to remove the cable. Forcing your finger into the clearance can cause damage to the PCI card.

TABLE 2 Documentation Updates (*Continued*)



Title	Page Number	Update
SPARC Enterprise M8000/M9000 Servers Service Manual	4-23	4.7, "Power-On and Power-Off Procedures for the Cabinet with the Dual Power Feed Option and the M9000 Expansion Cabinet" See "Power-On/Off Procedures of the Server with Expansion Cabinet" on page 9 for the changes.
SPARC Enterprise M8000/M9000 Servers Service Manual		"Cold Replacement" "Shutdown processing is executed for all the domains, and the power is turned off" should be substituted with the following description: "The OS shutdown processing is executed for all the domains, and then the power-off processing is executed."
SPARC Enterprise M8000/M9000 Servers Service Manual		"Cold Replacement" "Confirm that shutdown processing is completed by confirming that the Power LED (green) on the operator panel is off" should be substituted with the following description: "Confirm that the power-off processing is completed by confirming that the Power LED (green) on the operator panel is off."
SPARC Enterprise M4000/M5000 Servers Service Manual	10-1 11-1	CHAPTER 10, "Operator Panel Replacement" CHAPTER 11, "XSCF Unit Replacement" The following important message will be added.
<hr/> <p>Note – If you replace the XSCF unit and the operator panel simultaneously, system will not operate normally. Execute the <code>showhardconf</code> command or the <code>showstatus</code> command to confirm that the component replaced earlier is operating normally, before replacing the subsequent FRU.</p> <hr/>		
SPARC Enterprise M8000/M9000 Servers Service Manual	13-3	13.2, "Hot Replacement" Step 5 The following caution will be added.
<div style="display: flex; align-items: center;">  <div> <p>Caution – When removing cables such as LAN cable, if your finger can't reach the latch lock of the connector, press the latch with a flathead screwdriver to remove the cable. Forcing your finger into the clearance can cause damage to the PCI card.</p> </div> </div> <hr/>		

TABLE 2 Documentation Updates (*Continued*)

Title	Page Number	Update
SPARC Enterprise M8000/M9000 Servers Service Manual	13-13	13.3, "Cold Replacement" Step 7 The following caution will be added.



Caution – When removing cables such as LAN cable, if your finger can't reach the latch lock of the connector, press the latch with a flathead screwdriver to remove the cable. Forcing your finger into the clearance can cause damage to the PCI card.

Updates of the SPARC Enterprise M8000/M9000 Servers Service Manual

The following information supersedes the information in the *SPARC Enterprise M8000/M9000 Servers Service Manual*.

Power-On/Off Procedures of the Server with Expansion Cabinet

On the server with expansion cabinet, when you turn on or turn off the mainline switch, do not fail to follow the order described below.

Power-On:

- 1. Turn on all the mainline switches of the expansion cabinet.**

In case that the power cabinet connected for the dual power feed option, also turn on all the mainline switches of the power cabinet.

- 2. Turn on all the mainline switches of the base cabinet.**

In case that the power cabinet connected for the dual power feed option, also turn on all the mainline switches of the power cabinet.

Power-Off:

- 1. Turn off all the mainline switches of the base cabinet.**

In case that the power cabinet connected for the dual power feed option, also turn off all the mainline switches of the power cabinet.

- 2. Turn off all the mainline switches of the expansion cabinet.**

In case that the power cabinet connected for the dual power feed option, also turn off all the mainline switches of the power cabinet.

Other Updates

Description	Correction
<p>20.2.1 SPARC Enterprise M8000/M9000 Servers BPs</p> <p>P.20-12 Caution</p> <p>For tightening the power bar, use a torque of 8.24 N.m (84 kgf.cm) for M8 bolts and 3.73 N.m (38 kgf.cm) for M6 bolts.</p>	<p>For tightening the power bar, choose a torque depending on the bolt size.</p> <ul style="list-style-type: none">• For M8 bolts, use a torque of 8.24 N.m (84 kgf.cm).• For M6 bolts, use a torque of 3.73 N.m (38 kgf.cm).
<p>21.1 Overview of the SNSU</p> <p>FIGURE 21-1, FIGURE 21-2, and FIGURE 21-3 show the mounting locations of the SNSUs of SPARC Enterprise M8000 Server, SPARC Enterprise M9000 Server (base cabinet), and SPARC Enterprise M9000 Server (with the expansion cabinet), respectively.</p>	<p>FIGURE 21-1, FIGURE 21-2, and FIGURE 21-3 show the mounting locations of the SNSUs of SPARC Enterprise M8000 Server, SPARC Enterprise M9000 Server (base cabinet), and the base cabinet of SPARC Enterprise M9000 Server with the expansion cabinet respectively.</p>

Software Issues

This section describes software specific issues and workarounds.

XCP Issues and Workarounds

TABLE 3 lists known XCP issues and possible workarounds.

TABLE 3 XCP Issues and Workarounds

ID	Description	Workaround
RTIF1-070418-004	All domains must be powered off before upgrading the XCP firmware.	Power off domains before using the <code>flashupdate</code> command to upgrade XCP firmware.
RTIF1-070418-005	If you log in to the XSCF while it is still booting, you may get a <code>bash\$</code> prompt instead of the <code>XSCF></code> prompt, and be unable to perform most operations.	Log out of the <code>bash\$</code> prompt and wait for the XSCF to finish booting.
RTIF1-070418-009	While XSCF is running, error message of "OOM kill" might be displayed to XSCF console, and process may go down and/or watchdog timeout may occur and XSCF may reboot.	Check that XSCF is started. If not started, use the <code>rebootxscf(8)</code> command to restart XSCF, or stop all the domains and then execute the system power off/on (AC OFF/ON).
RTIF1-070418-010	The <code>showdomainstatus -a</code> command shows domain status as Powered Off, but the <code>showboards -a</code> command shows the domain is testing.	Use the <code>showboards</code> command to check the status of system power. The <code>showdomainstatus</code> command takes a longer time to show the correct status.
RTIF1-070418-011	Some commands that update configuration data take a relatively long time to execute.	Do not cancel <code>set*</code> commands. They appear to hang, but eventually complete in about 30 seconds.
RTIF1-070418-012	The fault (<code>memory.block.ue</code>) is encountered and reported periodically.	An uncorrectable error exists in a DIMM and the DIMM should be replaced.
RTIF1-070418-021	Attempting to move a COD board using the <code>moveboard(8)</code> command may fail.	Use the <code>deleteboard</code> and <code>addboard</code> commands instead of the <code>moveboard</code> command.

TABLE 3 XCP Issues and Workarounds (*Continued*)

ID	Description	Workaround
RTIF1-070418-022	The XSCF firmware monitors itself and if it detects any anomalies, it will force a reboot.	Allow the XSCF Unit to finish rebooting. It will return to normal operation within approximately 5 minutes.
RTIF1-070418-023	Using the <code>rebootxscf</code> command may result in a process down error, and possibly an FMA event with MSG ID SCF-8005-NE.	Ignore this event.
RTIF1-070418-025	<code>showaudit all</code> shows a long list of defaults in the policy section after the database is cleared.	Update the database with the following: <code>setaudit -a opl=enable</code> <code>setaudit -a opl=default</code>

Solaris Issues and Workarounds

[TABLE 4](#) lists known issues and possible workarounds.

TABLE 4 Specific Issues and Workarounds Concerning Solaris

CR ID	Description	Workaround
6303418	A SPARC Enterprise M9000 with a single domain and 11 or more fully populated system boards may hang under heavy stress.	Do not exceed 170 CPU threads. Limit the number of CPU threads to one per CPU core by using the Solaris <code>psradm</code> command to disable the excess CPU threads. For example, disable all odd-numbered CPU threads.
6416224	System performance can degrade using a single NIC card with more than 5,000 connections.	Use multiple NIC cards to split network connections.
6440061	The domain console may display this message: <code>ipsec_check_inbound_policy: Policy Failure for the incoming packet (not secure)</code>	This message can be safely ignored.
6441349	The system may hang if there is an I/O error in the system.	None available at this time.

TABLE 4 Specific Issues and Workarounds Concerning Solaris (Continued)

CR ID	Description	Workaround
6449315	The Solaris <code>cfgadm(1M)</code> command does not unconfigure a DVD drive from a domain on a SPARC Enterprise M8000/M9000 server.	<p>Disable the Volume Management Daemon (<code>vold</code>) before unconfiguring a DVD drive with the <code>cfgadm(1M)</code> command.</p> <p>To disable <code>vold</code>, stop the daemon by issuing the command <code>/etc/init.d/volmgt stop</code>. After the device has been removed or inserted, restart the daemon by issuing the command <code>/etc/init.d/volmgt start</code>.</p>
6459540	The DAT72 internal tape drive on SPARC Enterprise M8000/M9000 may time out during tape operations.	<p>Add the following definition to <code>/kernel/drv/st.conf</code>:</p> <pre>tape-config-list = "SEAGATE DAT DAT72-000", "SEAGATE_DAT DAT72-000", "SEAGATE_DAT DAT72-000"; SEAGATE_DAT DAT72-000= 1, 0x34, 0, 0x9639, 4, 0x00, 0x8c, 0x8c, 0x8c, 3;</pre>
6466617	Performing a hot plug operation with the PCI-E slot too quickly interrupts a PCI leaf reset and fails, creating a <code>cfgadm(1M)</code> : Component system is busy error.	Pause a few seconds between the issue of each <code>cfgadm -c</code> command.
6472153	If you create a Solaris install image or boot image on a non-SPARC Enterprise Mx000 sun4u server and use it on a SPARC Enterprise Mx000 sun4u server, the console's TTY flags will not be set correctly. This may cause the console to hang.	<p>Telnet into the SPARC Enterprise Mx000 server to reset the console's TTY flags as follows:</p> <pre># sttydefs -r console # sttydefs -a console -i "9600 hupcl opost onlcr crtscts" -f "9600"</pre>
6481002	Installing the Solaris 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.
6485555	On the SPARC Enterprise M8000/M9000 servers, On-board Gigabit Ethernet NVRAM corruption could occur due to a race condition. The window of opportunity for this race condition is very small.	None available at this time.

TABLE 4 Specific Issues and Workarounds Concerning Solaris (Continued)

CR ID	Description	Workaround
6496337	<p>The "cpumem-diagnosis" module may fail to load after uncorrectable error(UE) panic. Systems will function correctly but events normally automatically diagnosed by FMA using this module will require manual diagnosis.</p> <p>Example:</p> <p>SUNW-MSG-ID: FMD-8000-2K, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Thu Feb 15 15:46:57 JST 2007 PLATFORM: SUNW, SPARC-Enterprise, CSN: BE80601007, HOSTNAME: col2-ff-em7-d0</p>	<p>If problem occurred, implement the following workaround:</p> <ol style="list-style-type: none"> 1. Remove the following file. <pre># rm /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis</pre> 2. Restart fmd service. <pre># svcadm restart fmd</pre> <p>To avoid this problem in advance, add "rm -f /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis" in /lib/svc/method/svc-dumpadm file as below.</p> <pre># # We haven't run savecore on a dump device yet # savedev=none rm -f /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis #</pre>
6498283	<p>Using the DR deleteboard command while psradm operations are running on a domain might cause a system panic.</p>	<p>There is no workaround. Check for the availability of a patch for this defect.</p>
6499304	<p>CPU isn't offlined and unexpected message is displayed on console when many correctable error(CE) occurs.</p> <p>Example:</p> <p>SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Fri Feb 2 18:31:07 JST 2007 PLATFORM: SPARC-Enterprise, CSN: BE80601035, HOSTNAME: FF2-35-0</p>	<p>Check CPU status on XSCF.</p>

TABLE 4 Specific Issues and Workarounds Concerning Solaris (Continued)

CR ID	Description	Workaround
6502204	Unexpected error messages may be displayed on console on booting after CPU UE panic. Example: SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Tue Jan 9 20:45:08 JST 2007 PLATFORM: SUNW,SPARC-Enterprise, CSN: 2030636002, HOSTNAME: P2-DC1-16-d0	If you see unexpected messages, check system status on XSCF.
6502750	Notification message for inserted or removed card by PCI hotplug may not output.	None available at this time.
6505921	Correctable error on the system PCIe bus controller generates an invalid fault.	Create a file <code>/etc/fm/fmd/fmd.conf</code> containing the following lines: <code>setprop client.buflim 40m</code> <code>setprop client.memlim 40m</code>
6508432	Many correctable errors (CE) may occur, and despite these are the correctable errors, domain may panic.	Set the following to <code>/etc/system</code> and then reboot the domain: <code>set pcie:pcie_aer_ce_mask = 0x2001</code>
6508434	The domain may panic when an additional PCI-X card is installed or a PCI-X card is replaced by using PCI hot plug.	Do not insert a different type of PCI-X card on the same PCI slot card by using PCI hotplug.
6509337	s10s_u3 wanboot fails - The server returned 416: Requested Range Not Satisfiable.	None available at this time.
6510779	On a large single domain configuration, the system may incorrectly report very high load average at times.	There is no workaround. Check for the availability of a patch for this defect.
6510861	When Dual-Channel Ultra320 SCSI Card (SE0X7SC2F,SE0X7SC2X) is mounted, correctable errors(CE) occur and system may panic.	To mask these errors with Dual-Channel Ultra320 SCSI Card (SE0X7SC2F,SE0X7SC2X), add the following entry to the <code>/etc/system</code> file and then reboot the system: <code>set pcie:pcie_aer_ce_mask = 0x31c1</code>
6511374	Unexpected error messages may be displayed on console after changing the system configuration. Example: WARNING: Translation error source /LSB0/B0/0, PA 3c000000000, target /LSB0/B0/20000000	This message can be safely ignored.

TABLE 4 Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6515648	"Replumb Failed" error appears when <code>dr@0:SB1::memory</code> fails.	<p>Once the DR operation is complete, it can be plumbed up manually.</p> <p>Example steps/procedure to re-plumb the interface manually:</p> <pre># ifconfig interface plumb xxx.xxx.xxx.xxx netmask + broadcast + up # ifconfig interface group group-name # ifconfig interface addif xxx.xxx.xxx.xxx -failover deprecated up</pre> <p>This workaround assumes that the <code>/etc/hostname.interface</code> file is correctly configured for the IPMP group and does not need any modification. The IP addresses used in the example above should match what was previously used and what matches the <code>/etc/hostname.<interface></code> file.</p>
6519290	Large amounts of I/O on swap devices can cause the system to appear hung by overwelling the I/O system. The amount of I/O required can be generated through a number of ways, eg memory shortage, heavy use of <code>/tmp</code> etc.	<p>Set the following to <code>/etc/system</code> and then reboot the domain:</p> <pre>set maxfastscan=0x2000</pre>
6520990	Domain may cause a panic when <code>deleteboard</code> for kernel board by using Dynamic Reconfiguration (DR).	<p>To mask this error, add the following entry to the <code>/etc/system</code> file.</p> <pre>set drmach:fmem_timeout = 30</pre>
6522017	Domains using the ZFS filesystem cannot use DR.	There is no workaround.
6522433	After the CPU hardware error occurred, the <code>fmddump(1M)</code> command on the domain may display an incorrect faulty component.	Check system status on XSCF.
6527781	The <code>cfgadm</code> command fails while moving the DVD/DAT drive between two domains.	There is no workaround. To reconfigure DVD/Tape drive, execute <code>reboot -r from></code> the domain exhibiting the problem.
6529714	Warning messages occur while trying to configure more than four X4447A-Z or X1027A-Z1 cards into one I/O Boat.	No workaround available at this time.
6530178	DR <code>addboard</code> command can hang. Once problem is observed, further DR operations are blocked. Recovery requires reboot of the domain.	There is no workaround. Check availability of a patch for this bug.

TABLE 4 Specific Issues and Workarounds Concerning Solaris (Continued)

CR ID	Description	Workaround
6530288	Ap_Id format may not be shown correctly by cfgadm(1M).	None available at this time.
6530753	Some of the PCI slots in the External I/O Expansion Unit PCI slots are not displayed during a normal boot operation.	Use one of the following operations to display all of the PCI slots. <ul style="list-style-type: none"> • <code>boot -r</code> (at open boot prompt) • <code>devfsadm -C</code> (at Solaris prompt) • <code>cfgadm</code> (twice at Solaris prompt)
6531036	The error message <code>network initialization failed</code> appears repeatedly after a boot net installation.	No workaround available at this time. Ignore the messages.
6531668	System hangs when executing parallel hotplug operation with SP DR in suspend phase.	No workaround available at this time.
6532215	volfs or dscp service may fail when domain is booted. <pre>svc:/platform/sun4u/dscp:default: Method "/lib/svc/method/svc-dscp start" failed with exit status 95.</pre> <pre>svc:/system/filesystem/volfs:default: Method or service exit timed out. Killing contract 59.</pre>	Restart the service if the failure is observed. To avoid the problem, issue the following commands. <pre># svccfg -s dscp setprop start/timeout_seconds=count: 300 # svccfg -s volfs setprop start/timeout_seconds=count: 300 # svcadm refresh dscp # svcadm refresh volfs</pre>
6534471	Domain may panic.	Add the following line to <code>/etc/system</code> and reboot the domain. <pre>set heaplp_use_stlb=0</pre>
6535564	PCI hot plug to PCI slot #0, #1 or External IO Expansion Unit may fail on XSB added by DR.	There is no workaround. Use DR instead of PCI hot plug if need to add or remove PCI card on the XSB.

TABLE 4 Specific Issues and Workarounds Concerning Solaris (Continued)

CR ID	Description	Workaround
6536564	showlogs(8) and showstatus(8) command on XSCF might report wrong I/O component due to wrong diagnosis by Solaris Fault management Architecture when faults in I/O devices occur.	<p>To avoid this problem, issue the following commands on the domain.</p> <pre># cd /usr/platform/SUNW,SPARC-Enterprise/lib/fm/topo/plugins # mv ioboard.so ioboard.so.orig # svcadm restart fmd</pre> <p>If the following messages are displayed on the domain, contact a sales representative or a certified service engineer.</p> <p>Example:</p> <pre>SUNW-MSG-ID: SUNOS-8000-1L, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Sun May 6 18:22:24 PDT 2007 PLATFORM: SUNW,SPARC-Enterprise, CSN: BE80601007, HOSTNAME: sparc</pre>
6537511	Bluetooth partner is hung during security tests execution	Restart application server
6539084	Sun PCIe Quad-port Gigabit Ethernet Adapter UTP card(X4447A-Z) might panic during a reboot.	There is no workaround. Check for the availability of a patch for this defect.
6542632	Memory leak in PCIe module if driver attach fails.	There is no workaround. Check for the availability of a patch for this defect.
6545685	If the following message displayed on the OS console, memory degradation or XSB deconfiguration may occur in the subsequent reboot.	<p>Add the following to /etc/system and then reboot the domain:</p> <pre>set mc-opl: mc_max_rewrite_loop = 10000</pre> <p>Example:</p> <pre>mc-opl: WARNING: mc-opl rewrite timeout on /LSB0/B0</pre>

Identifying Permanent Memory in a Target Board

Dynamic reconfiguration is not recommended for production use if the target board (SB/XSB) has permanent memory (kernel memory).

1. Log in to XSCF.
2. Execute the following command:

```
XSCF> showdevices -d domain_id
```

The following example shows a display of the `showdevices -d` command where 0 is the `domain_id`.

```
XSCF> showdevices -d 0

...

Memory:
-----

```

DID	XSB	board mem MB	perm mem MB	base address	domain mem MB	XSB	target deleted mem MB	remaining mem MB
00	00-0	8192	0	0x0000000000000000	24576			
00	00-2	8192	1674	0x000003c000000000	24576			
00	00-3	8192	0	0x0000034000000000	24576			

```
...
```

The entry for column 4 perm mem MB indicates the presence of permanent memory if the value is non-zero.

The example shows permanent memory on 00-2, with 1674 MB.

If the board includes permanent memory, when you execute the `deleteboard` command or the `moveboard` command, the following notice appears:

```
System may be temporarily suspended, proceed? [y|n]:
```

3. If a board includes permanent memory, enter n to cancel the DR command.

```
System may be temporarily suspended, proceed? [y|n]:n
disconnect SB5
DR operation canceled by operator.
XSCF>
```

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 M8000/M9000 Servers Software documentation.

[TABLE 5](#) lists known documentation updates.

TABLE 5 Documentation Updates

Title	Page Number	Update								
All SPARC Enterprise M8000/M9000 servers documentation		All DVD references are now referred to as CD-RW/DVD-RW.								
SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF User's Guide	D-5	Frequently Asked Questions (FAQ) in "Troubleshooting XSCF and FAQ" The option for OS dump is not "request" but "panic". Correction: 1. First, execute the <code>reset(8)</code> command with the panic option from the XSCF Shell.								
SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF Reference Manual	<code>ioxadm(8)</code> command	The required privileges for the <code>ioxadm(8)</code> command are as follows: <table border="0"><thead><tr><th>Required Privileges</th><th>Commands</th></tr></thead><tbody><tr><td><code>platop</code></td><td><code>env, list</code></td></tr><tr><td><code>platadm</code></td><td><code>env, list, locator, poweroff, poweron</code></td></tr><tr><td><code>fieldend</code></td><td><code>env, list, locator, poweroff, poweron, reset, settled</code></td></tr></tbody></table> The corrections here, if not otherwise specified, also apply to the man pages which XSCF provides. And they supersede the information on the man pages.	Required Privileges	Commands	<code>platop</code>	<code>env, list</code>	<code>platadm</code>	<code>env, list, locator, poweroff, poweron</code>	<code>fieldend</code>	<code>env, list, locator, poweroff, poweron, reset, settled</code>
Required Privileges	Commands									
<code>platop</code>	<code>env, list</code>									
<code>platadm</code>	<code>env, list, locator, poweroff, poweron</code>									
<code>fieldend</code>	<code>env, list, locator, poweroff, poweron, reset, settled</code>									

TABLE 5 Documentation Updates (*Continued*)

Title	Page Number	Update
SPARC Enterprise M4000/M5000/M8000/M9 000 Servers XSCF Reference Manual	showldap(8) manpage showlookup(8) manpage showcodusage (8) manpage showemailrep ort(8) manpage	The man pages for showldap, showlookup, showcodusage, and showemailreport do not state that these commands are available with the fieldeng privilege.
SPARC Enterprise M4000/M5000/M8000/M9 000 Servers XSCF Reference Manual	setaudit(8) manpage showaudit(8) manpage	The setaudit and showaudit man pages are incorrect with respect to audit class information. The following are the audit classes and their values: ACS_SYSTEM 1 ACS_WRITE 2 ACS_READ 4 ACS_LOGIN 8 ACS_AUDIT 16 ACS_DOMAIN 32 ACS_USER 64 ACS_PLATFORM 128 ACS_MODES 256
SPARC Enterprise M4000/M5000/M8000/M9 000 Servers Administration Guide		Hotplugging of the IOU onboard device card (IOUA) is not supported at this time.

