# **SPARC Enterprise M3000/M4000/M5000/ M8000/M9000 Servers**

Product Notes For XCP Version 1100



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## Preface

These product notes contain important and late-breaking information about the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 server hardware, software, firmware, and documentation, covering the latest XSCF Control Package (XCP) release.

Some references to server names and document names are abbreviated for readability. For example, if you see a reference to the M9000 server, note that the full product name is the SPARC Enterprise M9000 server. And if you see a reference to the XSCF Reference Manual, note that the full document name is the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual.

**Note** – Once an XCP version newer than the XCP version supported by this manual is released, only the manuals related to the new XCP version are subsequently updated. You must therefore check the manuals for the latest XCP version in addition to those related to the XCP version you are using.

#### 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/
```

#### This section includes:

- "Audience" on page vi
- "How to Use This Document" on page vi
- "Related Documentation" on page vii
- "Documentation Feedback" on page x

## Audience

This notes is written for experienced system administrators with working knowledge of computer networks and advanced knowledge of the Oracle Solaris Operating System (Oracle Solaris OS).

## How to Use This Document

This document is intended for all models of the M3000/M4000/M5000/M8000/M9000 servers. Read the appropriate related items depending on your server, as shown in the table below.

Related Items in Product Notes Depending on the Server in Use TABLE 1

Chapter of This Document	M3000	M4000/M5000	M8000/M9000
Chapter 1 Software Requirements	О	О	О
Chapter 2 XCP 1100 and XCP 1100-related Information	O	O	О
Chapter 3 Information About Software	O	О	О
Chapter 4 Information About Hardware of M3000 Server	O		
Chapter 5 Information About Hardware of M4000/M5000 Servers		О	
Chapter 6 Information About Hardware of M8000/M9000 Servers			О

Chapter 1, Chapter 2, and Chapter 3 provide the information related to firmware and software for all servers. These chapters contain the descriptions which are specific to particular models, too. The relevant server name is clearly stated.

Chapter 4, Chapter 5, and Chapter 6 provide the information related to hardware. Each chapter describes each model. The information which is common in all models is provided in all of these chapters. As a result, the description may be overlapped when you retrieve the hardware-related information of multiple models.

## Related Documentation

The M3000/M4000/M5000/M8000/M9000 server related manuals are listed in the following table. All manuals are available online.

**Note** – Information in these product notes supersedes the information in the M3000/M4000/M5000/M8000/M9000 servers documentation set.

Book Title	Manual Code
SPARC Enterprise M3000 Server Site Planning Guide	C120-H030
SPARC Enterprise M4000/M5000 Servers Site Planning Guide	C120-H015
SPARC Enterprise M8000/M9000 Servers Site Planning Guide	C120-H014
SPARC Enterprise Equipment Rack Mounting Guide	C120-H016
SPARC Enterprise M3000 Server Getting Started Guide*	C120-E536
SPARC Enterprise M4000/M5000 Servers Getting Started Guide*	C120-E345
SPARC Enterprise M8000/M9000 Servers Getting Started Guide*	C120-E323
SPARC Enterprise M3000 Server Overview Guide	C120-E537
SPARC Enterprise M4000/M5000 Servers Overview Guide	C120-E346
SPARC Enterprise M8000/M9000 Servers Overview Guide	C120-E324
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Important Legal and Safety Information*	C120-E633
SPARC Enterprise M3000 Server Safety and Compliance Guide	C120-E538
SPARC Enterprise M4000/M5000 Servers Safety and Compliance Guide	C120-E348
SPARC Enterprise M8000/M9000 Servers Safety and Compliance Guide	C120-E326
External I/O Expansion Unit Safety and Compliance Guide	C120-E457
SPARC Enterprise M4000 Server Unpacking Guide*	C120-E349
SPARC Enterprise M5000 Server Unpacking Guide*	C120-E350
SPARC Enterprise M8000/M9000 Servers Unpacking Guide*	C120-E327
SPARC Enterprise M3000 Server Installation Guide	C120-E539
SPARC Enterprise M4000/M5000 Servers Installation Guide	C120-E351
SPARC Enterprise M8000/M9000 Servers Installation Guide	C120-E328
SPARC Enterprise M3000 Server Service Manual	C120-E540

Book Title	Manual Code
SPARC Enterprise M4000/M5000 Servers Service Manual	C120-E352
SPARC Enterprise M8000/M9000 Servers Service Manual	C120-E330
External I/O Expansion Unit Installation and Service Manual	C120-E329
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI Build Procedure	C120-E361
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Administration Guide	C120-E331
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide	C120-E332
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF Reference Manual	Varies per re- lease
SPARC Enterprise M4000/M5000/M8000/M9000 Servers Dynamic Reconfiguration (DR) User's Guide	C120-E335
SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide	C120-E336
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI User's Guide	C120-E360
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Product Notes <sup>†</sup>	Varies per re- lease
SPARC Enterprise M3000 Server Product Notes	Varies per re- lease
SPARC Enterprise M4000/M5000 Servers Product Notes	Varies per re- lease
SPARC Enterprise M8000/M9000 Servers Product Notes	Varies per re- lease
External I/O Expansion Unit Product Notes	C120-E456
SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Glossary	C120-E514
SPARC Enterprise/PRIMEQUEST Common Installation Planning Manual	C120-H007

<sup>\*.</sup> This is a printed document.

## Manuals on the Web

Global Site

http://www.fujitsu.com/sparcenterprise/manual/

<sup>†.</sup> Beginning with the XCP 1100 release.

```
Japanese Site
http://primeserver.fujitsu.com/sparcenterprise/manual/
North American Site
https://download.computers.us.fujitsu.com/
Oracle Solaris OS and Related Manuals
http://docs.sun.com
```

### Documentation CD

For the Documentation CD, please contact your local sales representative.

- SPARC Enterprise M3000 Server Documentation CD (C120-E541)
- SPARC Enterprise M4000/M5000 Servers Documentation CD (C120-E365)
- SPARC Enterprise M8000/M9000 Servers Documentation CD (C120-E364)

# Manual on the Enhanced Support Facility x.x CD-ROM disk

Remote maintenance service

■ Enhanced Support Facility User's Guide for REMCS (C112-B067)

## Information Required for Server Operation

The latest information about the support for your server are provided on the websites.

```
Global Site
http://www.fujitsu.com/sparcenterprise/msg/

Japanese Site
http://primeserver.fujitsu.com/sparcenterprise/msg/
```

■ Firmware program

Message

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/firmwa

The following files or document are provided.

- Firmware program file (XSCF Control Package (XCP) file)
- XSCF extension MIB (OPL-SP-MIB) definition file

**Note** – XSCF Control Package (XCP): XCP is a package which has the control programs of hardware that configures a computing system. The XSCF firmware and the OpenBoot PROM firmware are included in the XCP file.

■ Fault Management MIB (SUN-FM-MIB) definition file http://src.opensolaris.org/source/xref/onnv/onnvgate/usr/src/lib/fm/libfmd snmp/mibs/

## Information on using the RCI function

For information on using the RCI function such as RCI build procedure, refer to the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI Build Procedure and the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI User's Guide.

## Documentation Feedback

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?su pport/servers

For Users in Other Countries:

http://www.fujitsu.com/global/contact/computing/sparce index.ht ml

# Software Requirements

This section contains the software requirements of SPARC Enterprise  $\rm M3000/M4000/M5000/M8000/M9000$  (M3000/M4000/M5000/M8000/M9000) servers.

- "XCP, Oracle Solaris OS and Required Patches" on page 1
- "Obtaining XCP and Oracle Solaris Patches" on page 4
- "Web Browser" on page 4

# XCP, Oracle Solaris OS and Required Patches

The supported XCP and Oracle Solaris Operating System (Oracle Solaris OS) depends on the processors being installed on the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 servers.

This section lists supported XCP, and Oracle Solaris OS and mandatory patches for the M3000/M4000/M5000/M8000/M9000 servers.

**Note** — Apply the patches in the following order. For the procedures of CPU upgrade including the patches, see *SPARC Enterprise M8000/M9000 Servers Service Manual*.

 TABLE 1-1
 Supported XCP, Oracle Solaris OS, and Required Patches

Server : Processors	XCP	Oracle Solaris OS	Required Patches
M4000/M5000: SPARC64 VII+ 2.66 GHz	1100 or later	Oracle Solaris 10 9/10	no patches required
M8000/M9000: SPARC64 VII+ 3.00 GHz		<ul> <li>Oracle Solaris 10 10/09</li> </ul>	no patches required
		• Oracle Solaris 10 5/09	all patches contained in the PTF R10021 or later <sup>‡</sup>
		• Oracle Solaris 10 10/08	all patches contained in the PTF R10021 or later <sup>‡</sup>
		• Oracle Solaris 10 5/08	all patches contained in the PTF R10021 or later <sup>‡</sup>
		• Oracle Solaris 10 8/07	all patches contained in the PTF R10021 or later <sup>‡</sup>
M4000/M5000: SPARC64 VII 2.53 GHz	1090 or later	• Oracle Solaris 10 9/10	no patches required
M8000/M9000: SPARC64 VII 2.88 GHz		• Oracle Solaris 10 10/09	no patches required
		• Oracle Solaris 10 5/09	all patches contained in the PTF R10021 or later <sup>‡</sup>
		• Oracle Solaris 10 10/08	all patches contained in the PTF R10021 or later <sup>‡</sup>
		• Oracle Solaris 10 5/08	all patches contained in the PTF R10021 or later <sup>‡</sup>
		• Oracle Solaris 10 8/07	all patches contained in the PTF R10021 or later <sup>‡</sup>
M4000/M5000: SPARC64 VII 2.4 GHz	1070 or later*	• Oracle Solaris 10 9/10	no patches required
M8000/M9000: SPARC64 VII 2.52 GHz		• Oracle Solaris 10 10/09	no patches required
		<ul> <li>Oracle Solaris 10 5/09</li> </ul>	no patches required
		<ul> <li>Oracle Solaris 10 10/08</li> </ul>	no patches required
		<ul> <li>Oracle Solaris 10 5/08</li> </ul>	137137-09
		• Oracle Solaris 10 8/07	119254-51 or later
			125891-01 or later
			127755-01 or later
			127127-11

 TABLE 1-1
 Supported XCP, Oracle Solaris OS, and Required Patches (Continued)

Server : Processors	XCP	Oracle Solaris OS	Required Patches
M4000/M5000: SPARC64 VI 2.15 GHz	1040 or later	Oracle Solaris 10 9/10	no patches required
M8000/M9000: SPARC64 VI 2.28/2.4 GHz		<ul> <li>Oracle Solaris 10 10/09</li> </ul>	no patches required
		<ul> <li>Oracle Solaris 10 5/09</li> </ul>	no patches required
		• Oracle Solaris 10 10/08	no patches required
		<ul> <li>Oracle Solaris 10 5/08</li> </ul>	137137-09
		<ul> <li>Oracle Solaris 10 8/07</li> </ul>	no patches required
		• Oracle Solaris 10 11/06	118833-36**
			125100-04 or later
			120068-03 or later
			123839-07 or later
			125424-01 or later
			125075-01 or later
			125670-02 or later
M3000: SPARC64 VII 2.75 GHz	1091 or later	• Oracle Solaris 10 9/10	no patches required
		• Oracle Solaris 10 10/09	no patches required
		• Oracle Solaris 10 5/09	all patches contained in the PTF R10021 or later <sup>‡</sup>
		• Oracle Solaris 10 10/08	all patches contained in the PTF R10021 or later <sup>‡</sup>
M3000: SPARC64 VII 2.52 GHz	1080 or later*†	Oracle Solaris 10 9/10	no patches required
		• Oracle Solaris 10 10/09	no patches required
		• Oracle Solaris 10 5/09	no patches required
		• Oracle Solaris 10 10/08	no patches required

<sup>\*.</sup> If 8GB DIMM is installed on a server, update XCP to XCP 1081 or later.

**Note** – You cannot boot a domain mounted with the SPARC64 VII processors using the Oracle Solaris 10 8/07 installation DVD. Use the Oracle Solaris 10 5/08 or later installation DVD to boot a domain mounted with the SPARC64 VII processors.

For additional Oracle Solaris OS information, see "Oracle Solaris OS Issues and Workarounds" on page 44.

t. XCP 1080 is the first XCP release for the M3000 server.

<sup>‡.</sup> For more information on the PTF, contact a sales representative or a qualified service engineer.

<sup>\*\*.</sup> Apply 118833-36 before 125100-04.

# Obtaining XCP and Oracle Solaris Patches

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

■ Global Site:

```
https://updatesite.jp.fujitsu.com/unix/en/download/firmware/
```

■ Japanese Site:

```
https://updatesite.jp.fujitsu.com/unix/jp/download/firmware/
```

For the latest patch information for Oracle Solaris OS, you can download at the following websites:

■ Global Site

```
https://software.fujitsu.com/jp/security/products-others/unix/
```

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.

## Web Browser

Many web browsers support the XSCF Web. The browsers in TABLE 1-2 have demonstrated compatibility with the XSCF Web through testing. For other information about XSCF Web, see "Notes on XSCF Web" on page 9.

**TABLE 1-2** Tested Web Browser Versions

Web Browser Application	Version
Microsoft Internet Explorer	6.0, 7.0, or 8.0
Firefox (Oracle Solaris 10)	2.0 or 3.5.9

# XCP 1100 and XCP 1100-related Information

This section describes the information about XCP 1100 and XCP 1100-related information.

- "What's New in XCP 1100" on page 5
- "Notes and Limitations" on page 6
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- "Updating to XCP 1100" on page 12

## What's New in XCP 1100

In XCP version 1100, the following new feature is introduced:

- (M4000/M5000 servers) The SPARC64 VII+ processor running at 2.66 GHz now can be mounted.
- (M8000/M9000 servers) The SPARC64 VII+ processor running at 3.00 GHz now can be mounted.
- (M4000/M5000 servers) The Airflow indicator has been added. For detail, see *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide*.
- The product notes which were provided for each model have been consolidated as the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers Product Notes.

## Notes and Limitations

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

## Limitations for SPARC64 VII+ and SPARC64 VII Processors (M4000/M5000/M8000/M9000 Servers)

You must complete the upgrades to the XCP and to Oracle Solaris OS before inserting the CPU/memory board unit of SPARC 64 VII+ and SPARC64 VII processors into the chassis.

## Notes on Active Directory

- While Active Directory is enabled, when you attempt to login to XSCF via the telnet, you might fail to login due to timeout of the query to secondary alternated server or later.
- If the specified timeout is too brief for the configuration, the login process or retrieval of user privilege settings could fail. In such case, specify larger value for the timeout and then execute again.

## Notes on LDAP/SSL

If the specified timeout is too brief for the configuration, the login process or retrieval of user privilege settings could fail. In such case, specify larger value for the timeout and try again.

# Notes on Power Consumption Monitoring Function (M3000 Server)

■ The amount of power consumption might not be indicated correctly in the MIB information, in the showenvironment power command output, and on the XSCF Web in the following cases; and you should wait for one minute and check the value again.

- During the server powering on or powering off, or for a while after the poweron or power-off complete
- During the active replacement of power supply unit, or for a while after the active replacement complete
- The figures on the power consumption monitoring function represent the dissipation power from the server. The figures of peripheral devices are not included.

### Notes on Airflow Indicator

- The amount of exhaust air might not be indicated correctly in the MIB information, in the showenvironment air command output, and on the XSCF Web in the following cases; and you should wait for one minute and check the value again.
  - During the server powering on or powering off, or for a while after the poweron or power-off complete
  - During the active replacement of power supply unit, or for a while after the active replacement complete
- The figures on the airflow indicator represent the volume of air exhausted from the server. The figures of peripheral devices are not included.

### Notes on NTP Server

- 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 M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

### Notes on the NTP Server Referring to the Local Clock

When the NTP server which XSCF refers to is referring to the server's own system time (local clock), and when the address of "127.127.1.0" is set to that local clock, time synchronization in XSCF might fail.

The address of the XSCF's own local clock is fixed to "127.127.1.0." On the other hand, when the address of the local clock of the NTP server which XSCF refers to is set to "127.127.1.0," the address of the clock source (refid) has the same value as the address of the XSCF's own local clock. An NTP server like this is excluded from the target of XSCF time synchronization.

You can execute the showntp -1 command to refer to the address of the NTP server's own clock source which is set in XSCF and the address of the XSCF's own local clock.

Of the two NTP server outputs, the upper (192.168.1.2) indicates the NTP server which is set by using the setntp(8) command. The refid is LOCAL(0), which means that the local clock which has the address of "127.127.1.0" is set to the clock source of this NTP server. On the other hand, the lower indicates the XSCF's own local clock. The address of the XSCF's own local clock is fixed to "127.127.1.0." Due to this, the NTP server (192.168.1.2) is excluded from the target of XSCF time synchronization; which results in the XSCF synchronizes with its own local clock.

With any of the following measures to avoid the trouble, time can be correctly synchronized with the NTP server which is set by using the setntp(8) command.

### • Change the clock source that the NTP server being set in XSCF refers to

Use the showntp -1 command and check the clock source of the NTP server which is set in XSCF. An NTP server which indicates the refid of LOCAL (0) in the output is referring to the local clock which has the address of "127.127.1.0," and you should change it to refer to another clock source.

When you change the clock source of an NTP server, make sure in advance that it has no impact on other NTP clients.

#### • Change the address of the local clock of the NTP server

Of the NTP server which XSCF refers to, change the address of the local clock to "127.127.1.1," "127.127.1.2," or "127.127.1.3." Change /etc/inet/ntp.conf of Oracle Solaris OS. To enable the change, restart of the NTP daemon is required.

When you change the address of the local clock of an NTP server, make sure in advance that it has no impact on other NTP clients.

### • Change the stratum value of the NTP server

Of the NTP server which XSCF refers to, change the stratum value to "1." An NTP server which has the stratum value of "1" becomes the most significant clock source and has no refid. Therefore, there is no chance that it will have the same address as the XSCF's own local clock.

When you change the stratum value of an NTP server, make sure in advance that it has no impact on other NTP clients.

#### • Change the address of the XSCF's own local clock

By using the setntp -m localaddr=value command, change the address of the XSCF's own local clock. In value, specify the least significant byte of the clock address of the local clock 127.127.1.x for value. A numeric from 0 to 3 can be specified. By specifying either from 1 to 3, the address of an NTP server which is referring to the local clock does not correspond to the address of the XSCF internal local clock anymore, and a server which is referring to the local clock can also be set as the NTP server of XSCF.

### Notes on XSCF Web

- Under the Windows 7 and Internet Explorer 8.0 environment, XSCF Web does not support the use through the built-in Administrator account.
- On Internet Explorer 8.0, when you move the on-screen horizontal frame up or down to change the frame height and use the [Monitor Msg Show/Hide] button, the screen background color may turn black. In this case, click Refresh on the View menu or press F5 key to refresh the display, to go back to the screen right after the login.
  - When you moved the on-screen horizontal frame up or down to change the frame height, do not use the [Monitor Msg Show/Hide] button.
- (M4000/M5000/M8000/M9000 servers) XSCF Web does not support the External I/O Expansion Unit Manager feature.

  The M3000 server does not support External I/O Expansion Unit.
- (M3000/M4000/M5000 servers) 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.

(M8000/M9000 servers) Using the XSCF Web, when you import XCP or update the firmware, Session ID error may be displayed on the web browser. And 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 under the Internet Explorer 6 or 7, or Firefox 2 environment, if a plug-in such as the search tool installed with the browser, remove the plug-in or disable the pop-up blocking.
  - When you use the XSCF Web under the Internet Explorer 8 or Firefox 3 environment, if a plug-in such as the search tool installed with the browser, disable the pop-up blocking.
- When you use XSCF Web under the Firefox 3 environment and attempt to log in to XSCF, you may be prompted by the browser to save the login ID/password. In this case, do not save the login ID/password. If you save the login ID/password, the stored data can be displayed unexpectedly on the LDAP, SMTP and REMCS web pages.

Use one of two settings described below, to disable the browser's ID/password remember function:

- Disable the entire browser ID/password remember function
   Click on the [Tools] menu, and select [Preferences]. On the [Security] panel, see [Passwords] and uncheck the "Remember passwords for sites" checkbox.
- Designate the XSCF Web address as an exception to the ID/password save operation

Click on the [Tools] menu, and select [Preferences]. On the [Security] panel, see [Passwords] and check the "Remember passwords for sites" checkbox. Then, on the dialog for the ID/password saving which appears in the login attempt to XSCF, click the "Never for This Site" button. As a result, the XSCF Web address will be registered in the "Exceptions" list to the ID/password save operation, and the dialog to prompt the ID/password saving will no longer be displayed in the subsequent login attempts to XSCF.

### Miscellaneous Notes and Limitations



**Caution** – (M4000/M5000/M8000/M9000 servers) For dynamic reconfiguration (DR) and hot-plug issues, see "Oracle Solaris OS Issues and Workarounds" on page 44.

- (M4000/M5000/M8000/M9000 servers) The following functions displaying the power consumption is not supported on M4000/M5000/M8000/M9000 servers.
  - power operand of the showenvironment(8) command
  - XSCF Web

**Note** – Invalid values will be displayed by executing the commands or menu. SNMP Agent Function obtains invalid values of power consumption.

- (M4000/M5000 servers) The M4000/M5000 servers are cold service machines. Hot-swapping of the CPU module (CPUM), memory board (MEMB), I/O unit (IOU), or XSCF unit is not supported.
- (M8000/M9000 servers) Do not use the internal CD-RW/DVD-RW drive unit and the TAPE drive unit at the same time.
- The log archive feature by the setarchiving(8) and the showarchiving(8) commands, and the Log Archives menu of XSCF Web is not supported.
- 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)
- (M8000/M9000 servers) On the M8000/M9000 servers with XCP 1050 or later, the dual XSCF Unit feature is working. Therefore, you can not downgrade M8000/M9000 servers with XCP 1050 or later to XCP 1040 or XCP 1041, which does not support dual XSCF Unit feature.
- 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, proxyuser, and default.
- 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.
- (M4000/M5000/M8000/M9000 servers) While you are performing DR operation to a COD board, do not execute the addcodactivation(8)/addcodlicense(8)/deletecodactivation(8)/deletecodlicense(8)/setcod(8) command.
- At this time the restoredefaults(8) command is not supported.
- At this time the -e, -1, -P options of the snapshot(8) command are not supported.
- An XSCF user account user name cannot match an LDAP user name, and an XSCF user account number (UID) cannot match an LDAP UID number.

## XCP 1100 Issues and Workarounds

For known XCP issues and possible workarounds in XCP 1100, see "Known Issues and Workarounds in XCP 1100" on page 16. For fixed XCP issues in XCP 1100, see "XCP Issues Fixed in XCP 1100" on page 19.

# Updating to XCP 1100

To update your XCP to XCP 1100, please pay attention to the following points depending on your current XCP version.

You can upgrade to XCP 1100 from XCP version 1050 or later. Refer to the *SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide* for instructions.

## Resetting the XSCF Firmware

After updating the XCP firmware to 1100, do not fail to reset the XSCF by using the rebootxscf(8) command.

# Updating from a Version Earlier Than XCP 1050 (M8000/M9000 Servers)

- You cannot update to XCP 1100 directly. If you are currently running a version earlier than XCP 1050, you must first update to an interim version of XCP between 1050 and 1070 (inclusive) before updating to XCP 1100. Refer to the product notes document for the interim version for instructions.
- Delete any accounts named "admin". Any accounts named admin must be deleted prior to updating to XCP 1050 or later. This account name is reserved in XCP 1050 and later. Use the deleteuser(8) command to delete the account.

# Updating from a Version Earlier Than XCP 1070 (M8000/M9000 Servers)

On a domain which has been in operation during the XCP update to 1100, when you perform Dynamic Reconfiguration (DR) to add or replace the SPARC64 VII processors, you need to update the OpenBoot PROM firmware. The OpenBoot PROM firmware is updated as you update the XCP and restart the domain. For this reason, it is strongly recommended to restart all the domains after you update the firmware to XCP 1100, regardless of whether you added or replaced the SPARC64 VII processors.

## Information About Software

This section describes the special instructions and the issues about the M3000/M4000/M5000/M8000/M9000 servers software.

- "Notes and Limitations" on page 15
- "XCP Issues and Workarounds" on page 16
- "Oracle Solaris OS Issues and Workarounds" on page 44
- "Software Documentation Updates" on page 71
- "Miscellaneous Information" on page 72

## Notes and Limitations

### Notes on Remote Maintenance

This section is explained the notes on using the remote maintenance service. For details on making settings and using the remote maintenance service, see the manuals about the remote maintenance service in the *Enhanced Support Facility User's Guide for REMCS*.

### Before Setting the Remote Maintenance Service

Before using the remote maintenance service on your M3000/M4000/M50900/M8000/M9000 server, you have to complete the settings for the REMCS Agent function on XSCF Web.

Be sure to complete the necessary settings for using XSCF Web such as enabling the HTTPS, on XSCF shell. After completing, specify the settings for REMCS Agent function on XSCF Web.

For detail on the settings for XSCF Web, see SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers XSCF User's Guide.

### Enabling and Disabling the REMCS Agent Function

The REMCS agent function is enabled as the default settings. To enable or disable the REMCS agent function, contact a field engineer.

### The Timezone Setting for REMCS Agent Function

The REMCS agent uses the current server timezone. So when you change the server timezone by XSCF, the "Periodical Connection Schedule" setting is required again for updating the information of the REMCS center.

## **XCP** Issues and Workarounds

This section contains information about XCP issues. TABLE 3-1, TABLE 3-2, and TABLE 3-3 list issues you might encounter, depending upon which XCP release you are using.

### Known Issues and Workarounds in XCP 1100

TABLE 3-1 lists known XCP issues and possible workarounds in XCP 1100.

TABLE 3-1 Known Issues and Workarounds in XCP 1100

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070914-025			Ο	When you execute XCP Sync on the Firmware Update page, after 15 minutes, the error message "Another flashupdate is now processing" or "The page cannot be displayed" may appear.	No workaround is available. However, the XCP Sync process has been continuously executed. Check the XSCF update completion message on the monitoring message to confirm the completion of Sync process.

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 TABLE 3-1
 Known Issues and Workarounds in XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 071116-001			0	DR operations might fail (with a misleading message regarding the board being unavailable for DR) after the addfru(8) or replceafru(8) command have been used for active replacement. This happens when the active replacement is done without the diagnostic test in the maintenance menu.	Do not fail to execute the diagnosis in the maintenance menu of the addfru(8) or replacefru(8) command. In case of missing the diagnostic test in the maintenance menu of the addfru(8) or the replacefru(8) command, execute the testsb(8) command or delete the CPU/memory board unit using the deletefru(8) command and then retry the addfru(8) command.
RTIF1- 071126-002			O	When the server is being installed, and the mainline switch is turned on for the first time, these error messages might be displayed:  PSU shortage  XSCF watchdog timeout  XSCFU hang-up is detected  XSCF process down detected	Turn off the system AC power, then turn it on again.  When the error log is displayed again, turn off the system AC power, then turn it on again. To turn on the system power that you turned off, wait at least 30 seconds before power-on.
RTIF1- 080725-001	О	О	Ο	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.  Confirm that the SNMP trap host is working and re-execute the setsnmp(8) command using the correct user name.
RTIF1- 080725-002	Ο	Ο	Ο	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- 081016-002	Ο			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.

 TABLE 3-1
 Known Issues and Workarounds in XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 081225-001	0	0	O	In the settimezone -c adddst command, when you set eight or more letters to the abbreviation of time zone and the name of Daylight Saving Time, execution of the showlogs command induces a segmentation fault and results in an error.	Specify the abbreviation of time zone and the name of Daylight Saving Time in seven letters or less.
RTIF1- 090108-003	О	О	О	Date and time of the Last Update which displayed on the XSCF Web may not be updated.	Please refresh the display.
RTIF1- 090427-005	Ο	O	O	When you use the setpasswordpolicy(8) command and set "999999999" (10 digits) in Different Characters, the showpasswordpolicy(8) command displays "-1."	No workaround is available. Use XSCF Web.
RTIF1- 090731-001			O	While a DIMM correctable error (CE) has been occurred, when XSCF failover is started, a message "XSCFU hang-up is detected" might appear in the error log.	This error log can be safely ignored.
RTIF1- 100331-001	O	Ο	Ο	When you use the sethttps(8) command to create the self CA (Certificate Authority) or a CSR with specifying only spaces (for example, " ") in the <i>e-mail</i> operand, the HTTPS function might be disabled after XSCF reset.	When you create the self CA or a CSR, do not specify only spaces in the <i>e-mail</i> operand.
RTIF1- 100331-002	Ο	Ο	O	When you start up a domain from a disk that is connected to the 8Gbps fibre channel card (SE0X7F21F, SE0X7F22F) and if it is unable to start the domain due to causes such as disk failure, an error log of "FRU: /UNSPECIFIED" might be registered.	No workaround is available.

 TABLE 3-1
 Known Issues and Workarounds in XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 101019-001	0	0	O	When you start up a domain from a hard disk that is connected to the 8Gbps fibre channel card (SE0X7F21F, SE0X7F22F) and if you specified an erroneous value after "@" of the disk node, the message of "Fast Data Access MMU Miss" might be displayed on the console and an error log of the TT=0x68 trap might be registered.	No workaround is available.  When this event occurred, change the environmental variable 'auto-boot?' setting to false and use the resetall command to reset the domain. Then, specify the correct value after "@" of the disk node and execute the boot command.

### XCP Issues Fixed in XCP 1100

TABLE 3-2 lists XCP issues fixed in XCP 1100.

**TABLE 3-2** XCP Issues Fixed in XCP 1100

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 101102-001	Ο	O	O	When the RCI of XSCF#0 and XSCF#1 both got the communication error, the RCI asynchronous monitoring of PRIMECLUSTER does not stop normally but gets the monitoring timeout, which delays the switching of the clusters after the error detected.	No workaround is available.
RTIF1- 101029-001	Ο	O	O	When you use the setroute(8) command to set the gateway address and if you mistake the setting or the gateway has been stopped, XSCF hangs up.	To set the gateway address, confirm that the specified address is correct. Before resetting XSCF by using the rebootxscf(8) command, confirm that the gateway is operating properly.

# XCP Issues Fixed in Releases Earlier Than XCP 1100

TABLE 3-3 lists XCP issues that have been fixed in releases earlier than XCP 1100.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070418-004		О	О	All domains must be powered off before upgrading the XCP.	Power off domains before using the flashupdate(8) command to upgrade XCP firmware.
RTIF1- 070418-005		O	O	If you log in to the XSCF while it is still booting, you may get a bash\$ prompt instead of the XSCF> prompt, and be unable to perform most operations.	Log out of the bash\$ prompt and wait for the XSCF to finish booting.
RTIF1- 070418-009	0	0	O	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.	(M8000/M9000 servers) Check that XSCF is started. If there is XSCF unit which is not started, execute the replacefru(8) command, and then uninstall the XSCF unit and install it again. Or stop all the domains 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.
					(M4000/M5000 servers)  Check that XSCF is started. If not started, stop all the domains 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.  (M3000 server)
					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.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070418-010		O	O	The showdomainstatus -a command shows domain status as Powered Off, but the showboards -a command shows the domain is testing.	Use the showboards command to check the status of domain power. The showdomainstatus command takes a longer time to show the correct status.
RTIF1- 070418-011		Ο	O	Some commands that update configuration data take a relatively long time to execute.	Do not cancel set* commands. They appear to hang, but eventually complete in about 30 seconds.
RTIF1- 070418-012		О	Ο	The fault (memory.block.ue) is encountered and reported periodically.	An uncorrectable error exists in a DIMM and the DIMM should be replaced.
RTIF1- 070418-020		Ο	O	When using the XSCF Web to import a firmware image, if the image is corrupted (for example, if the browser window is closed during import), the flashupdate command might later report an internal error.  CR ID 6537996 is similar.	Use the command getflashimage -d to delete the corrupted image. If necessary, reboot the XSCF Unit, then use the flashupdate command again to clear the internal error.
RTIF1- 070418-021		O	Ο	Attempting to move a COD board using the moveboard(8) command might fail.	Use the deleteboard(8) and addboard(8) commands instead of the moveboard(8) command.
RTIF1- 070418-022		Ο	Ο	The XSCF firmware monitors itself and if it detects any abnormalities, it will force a reset.	Allow the XSCF Unit to finish resetting. It will return to normal operation within approximately 5 minutes.
RTIF1- 070418-023		Ο	Ο	Using the rebootxscf(8) 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		0	O	showaudit all shows a long list of defaults in the policy section after the database is cleared.	Update the database with the following: setaudit -a opl=enable setaudit -a opl=default
RTIF1- 070528-001		0	O	When you have updated the /etc/ttydefs file of Oracle Solaris OS to disable the console flow control, you cannot disable the console flow control on the telnet via a server.	No workaround is available.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070528-002	O	O	O	While XSCF is running, watchdog timeout may occur and XSCF may reboot.	(M4000/M5000/M8000/M9000 servers)  Check that XSCF is started. If not started, stop all the domains 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.
					(M3000 server) 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- 070802-001		Ο	Ο	When connected to telnet, the login or the password prompt doesn't appear.	Disconnect the telnet session and try again.
RTIF1- 070823-001		Ο	O	Using the XSCF Web, 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.	To specify the value which exceeds the maximum number of character input for the XSCF Web, use XSCF Shell.
RTIF1- 070823-002		O	O	When you display the Logical tree on the XSCF Web, there may be multiple displays of the same domain, depending on the domain configuration.	On the Menu, select System Board Configuration and refer to the domain configuration from XSB Status (All). Or use the showboards(8) command to refer to the domain configuration.
RTIF1- 070823-003		O	O	When you display the Logical tree on the XSCF Web, the hardware configuration of CPU or memory which assigned to the domain appears differently from the actual domain configuration.	On the Menu, select Device Status to refer to the domain hardware configuration. Or use the showdevices(8) command to refer to the domain hardware configuration.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1-	О	О	О	(M8000/M9000 servers)	(M8000/M9000 servers)
070824-001				When remote power control mode of interlocking mechanism for power supply to domain, is enabled, after XSCF Unit is replaced, the interlocking for power supply by RCI cannot work.	After XSCF Unit is replaced, configures the RCI again and sets the remote power control mode.  (M3000/M4000/M5000 servers)  After the motherboard unit is
				(M3000/M4000/M5000 servers) When remote power control mode of interlocking mechanism for power supply to domain, is enabled, after the motherboard unit is replaced, the interlocking for power supply by RCI cannot work.	replaced, configures the RCI again and sets the remote power control mode.
RTIF1- 070824-002		O	O	On the XSCF Web, when you select Domain Mode Configuration to perform various settings, the pop-up screen may not appear but "Undefined" may be displayed on the screen.	Select Domain Mode Configuration one more time and perform the settings. Or once terminate the XSCF Web and then perform the settings.
RTIF1- 070824-003		O	O	On the XSCF Web, while the XCP import is in process from the Firmware Update screen, when you execute the REFRESH button, the pop-up of "Uploading Now!" disappears and the XCP import terminates abnormally.	None available at this time.
RTIF1- 070824-004		O	O	On the XSCF Web, on the Domain Status screen, when you select an XSB displayed on the Domain Component List, and in case the selected XSB is not yet mounted or is Uni-XSB, the pop-up screen displays no data.	None available at this time.
RTIF1- 070824-005		O	O	On the XSCF Web, when you changed the Refresh Interval value of the Monitor Message Frame, the invalid pop-up "Confirmation Domain mode" may appear.	Ignore the pop-up and close the screen.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070824-006		Ο	O	On the tab browser, to the same host, when you perform multiple log-in with the user accounts of different user privileges, the user privilege of the last log-in user account will be applied to those pages which you've already logged in.	When you use the tab browser, do not perform multiple log-in to the same host.
RTIF1- 070824-007		Ο	O	When you change configuration on the XSCF Web, if you select cancel on the confirmation dialog or perform forced close, the original configuration page may be unavailable.	From the Menu, select the original configuration page again.
RTIF1- 070824-008		O	O	On the Domain Configuration screen, when you select an undefined Domain ID, the Configuration Policy remains as the content which previously displayed.	None available at this time.
RTIF1- 070824-009		Ο		On the System Board Configuration screen, when you execute Detail, it is displayed as if the CPUM and the memory of MBU are all mounted on the PSB#0 side. And in the detail display of PSB#0, memory is displayed as "22 + 2."	None available at this time.
RTIF1- 070824-011		O	O	While using Firefox 2, in the Configuration policy setting on the Domain Configuration screen, when you specify a domain which is in operation, an error display pop-up appears. When you click on the Back button on this error display pop-up and click on the Cancel button on the inquiry screen to re-display the data, the system remains in the error message screen.	From the Menu, select the Domain Configuration page again.
RTIF1- 070904-001			Ο	CLIs executed in Standby XSCF should display "Permission denied".	Only the following CLIs can be executed on the Standby XSCF: snapshot(8), switchscf(8).  Do not attempt to run any other CLI on the Standby XSCF. Such attempts will report various errors.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070904-002		О	О	When the snapshot CLI attempts to write to a USB stick that has write protect set results in an I/O error.	Do not attempt to use write-protected USB devices for collecting snapshot.
RTIF1- 070904-003		O	O	An incorrect domain state is reported. After the command sendbreak(8) to domain is issued, showdomainstatus(8) continues to show the state as "Running" when the domain is actually at "ok" prompt.	No workaround is available. This is expected behavior of the sendbreak(8) operation.
RTIF1- 070904-005		О	O	Time can't be synchronized with the NTP server.	Check the stratum value of the NTP server.
					The stratum value of XSCF is "5." The NTP server which the XSCF refers to must be a server on which the stratum value is smaller than 5. When you changed the NTP server to refer to, reboot the XSCF.
					When the stratum value has been set correctly and the time can't be synchronized, use the showntp(8) command to check the jitter value to be displayed.  If this value is large, please reboot the XSCF.
RTIF1- 070904-006		Ο	Ο	While executing the domain power- on, domain reset or DR, in case the XSCF reset occurred, the process may be aborted in some or all of the XSB.	Execute the domain reset one more time, or power off the domain and then power on again.
RTIF1- 070912-001		O	O	If an invalid SMTP server is configured, a subsequent attempt to disable email service (using the setemailreport CLI) may block for up to 30 minutes.	<ul> <li>Wait for the CLI to complete. The rest of the system will function normally during this time.</li> <li>The CLI can also be aborted by ^C. Note that the operation (disabling emailreport) is completed, even if ^C is used.</li> </ul>
					• showemailreport can be used to confirm that the service has been disabled.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070914-001		О	О	While executing the firmware update by using the flashupdate(8) command or BUI, when the import of XCP executed by using the getflashimage(8) command or BUI, the firmware update aborts.	Do not execute the import of XCP by using the getflashimage(8) command or BUI, while executing the firmware update.
RTIF1- 070914-002		Ο	Ο	When the XSCF switching performed, the monitor message doesn't show the number of XSCFU which turned Active.	Execute the showhardconf(8) command to refer to the state of XSCFU.
RTIF1- 070914-003		Ο	O	When the XSCF switching performed, there may be "SCF: Board control error (DMA timeout)" stored in the error log.	No workaround is available. This message can be safely ignored.
RTIF1- 070914-005		Ο	Ο	On the XSCF Web, when using Internet Explorer 7, on the User Accounts screen, User Local Accounts doesn't show the Status of each user.	None available at this time.
RTIF1- 070914-006		Ο	O	When you set the XSCF user account name to the maximum 32 characters, you can log in, but then, when you execute the XSCF Shell or operate the XSCF Web, "Permission denied" occurs.	Use up to 31 characters to set the XSCF user account name.
RTIF1- 070914-007		O	O	On the XSCF Web, when you use Internet Explorer and select Log Archives, the Status of Log Archiving screen doesn't show the status information.	None available at this time.
RTIF1- 070914-008		Ο	Ο	On the XSCF Web, when you select POP or SMTP-auth on the SMTP screen to enter Password, the input value doesn't appear as "*".	None available at this time.
RTIF1- 070914-009		О	O	On the XSCF Web, when selected POP or SMTP-auth on the SMTP screen, the setting can be done while the input field remains blank. And despite the setting done, the past setting data appears.	None available at this time.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070914-010		0	0	On the XSCF Web, on the SNMPv3 Security Settings screen, when you select Add User or Copy User of the SNMP User-Based Security Model (USM), the Create or Copy User screen appears as a pop-up. On this screen, when you set the SNMP User with 16 digits or more, it will be registered correctly but the web browser screen displays up to 15 digits.	When you set the SNMP User with 16 digits or more, use the showsnmpusm(8) command.
RTIF1- 070914-011		0	0	On the XSCF Web, on the SNMPv3 Security Settings screen, when you select Change Password of the SNMP User-Based Security Model (USM), the Change Password screen appears as a pop-up. On this screen, despite the "Confirm Password" is a field which must be entered, it is not displayed with the note "* Indicates require field."	Do not fail to set Confirm Password which is a field must be entered.
RTIF1- 070914-012		0	O	On the XSCF Web, on the SNMP-Properties screen, when you don't select Trap Host and execute the Remove button, the invalid message "The trap host will be removed" appears as a pop-up. And when you select OK on the pop-up screen, the invalid message "Remove trap host failed. setsnmp: invalid trap type" appears.	None available at this time.
RTIF1- 070914-013		0	0	On the XSCF Web, on the Audit-Properties screen, when you execute the Add Policy button, the Set User Policy appears as a pop-up. On this screen, when you specified a user name which is not registered in XSCF and an input error resulted, the value entered won't be cleared though you execute the Reset button to clear the specified user name.	Set the correct user name or execute the Cancel button to close the pop-up screen.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070914-014		О	О	On the XSCF Web, when you use a user account without an appropriate privilege to select Snapshot, set the parameters of Start time or End time and execute the Download button, it doesn't result in a privilege error but the parameter error will be displayed.	None available at this time.
RTIF1- 070914-015		Ο	Ο	On the XSCF Web, when you select User Manager to add the user account, the user name to be specified is limited up to 20 characters.	To specify a user name of 20 characters or more, use the adduser(8) command.
RTIF1- 070914-016		0	0	On the XSCF Web, when you select LDAP to perform the LDAP configuration, if you execute Save while the LDAP Search Timeout remains as its default value "0," it results in "LDAP Configuration Update Failed. Save LDAP Configuration Data failed," and the setting can't be stored.	Since "0" is an invalid value in the LDAP Search Timeout, do not fail to set a value other than 0.
RTIF1- 070914-017		O	O	On the XSCF Web, when you select LDAP and input the LDAP Search Timeout with a value which exceeds the maximum 2147483647 seconds, it doesn't result in parameter error.	None available at this time. The maximum 2147483647 seconds will be set to the LDAP Search Timeout.
RTIF1- 070914-018		Ο	Ο	On the XSCF Web, when you use a user account without an appropriate privilege to select LDAP and execute the Delete button, it results in a privilege error but the configuration information which has been displayed will be cleared and seems as if deleted.	The configuration is not deleted. To show the configuration information again, select LDAP from the Menu.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 070914-019		0	0	The CLI 'showldap -c' (which displays current LDAP certificates) will show proper data only when used with the same user account that had originally provided certificate information using 'setldap -c'. Any other user account will generate "Permission denied" error. Similarly, the XSCF Web's LDAP Configuration pop-up screen will display no data, when a different user account is used.	Use the same user account for all LDAP display or configuration operations, for both CLI and XSCF Web.
RTIF1- 070914-020		Ο	Ο	On the User Account setting page on the User Manager screen, after the password change resulted in "Change Password Error," when you click on the REFRESH button, there appears the error message "No user. The request is aborted."	To change the password, select User Manager on the Menu again.
RTIF1- 070914-021		O	O	During the OpenBoot PROM process, when you power off the domain, the error log of Domain hang-up detected (level3) may be registered.	This error log can be safely ignored.
RTIF1- 070914-023		Ο	Ο	When you specify the domain ID or XSB number which are not supported on the machine, there appears the parameter error message.	To specify the available domain ID or XSB number on the machine.
RTIF1- 070914-024		Ο	Ο	When you display the physical tree on the XSCF Web, the warning mark is displayed on the link card for External I/O expansion unit.	None available at this time.
RTIF1- 070914-026		Ο	Ο	The XSCFU cannot act as a reliable NTP source for domains.	All domains should be configured to use a NTP source other than the XSCFU.
RTIF1- 070915-001		Ο	Ο	On the Domain Configuration screen, when you newly define the Domain Component List, the parameter error may be displayed.	When you define the Domain Component List, use CLI.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 071011-001			О	When the server is being installed, and the mainline switch is turned on for the first time, these error messages might be displayed:  XSCFU hang-up is detected  XSCF process down detected  DB synchronization timeout	Turn off the system AC power, then turn it on again.
RTIF1- 071102-001		Ο	Ο	The XSCF firmware monitors itself and if it detects any inconsistencies, it forces an XSCF reboot.	No workaround is available. Allow the XSCF Unit to finish rebooting. It returns to normal operation within approximately 5 minutes.
RTIF1- 071102-002	О	О	O	The snmp daemon might quit.	To restart the snmp daemon, issue the command setsnmp enable.
RTIF1- 071116-001		O		DR operations might fail (with a misleading message regarding the board being unavailable for DR) after the addfru(8) or replceafru(8) command have been used for active replacement. This happens when the active replacement is done without the diagnostic test in the maintenance menu.	Do not fail to execute the diagnosis in the maintenance menu of the addfru(8) or replacefru(8) command. In case of missing the diagnostic test in the maintenance menu of the addfru(8) or the replacefru(8) command, execute the testsb(8) command or delete the CPU/memory board unit using the deletefru(8) command and then retry the addfru(8) command.
RTIF1- 071116-003		Ο	Ο	Using the XSCF Web, when you selected COD, codusage details cannot be displayed correctly.	Use showcodusage(8) command to display the codusage.
RTIF1- 071116-004		O	O	When Internet Explorer 7 browser is used, the License key deletion cannot be executed on the BUI COD page.	Use deletecodlicense(8) command to delete a license key. Or use other browsers:  • Microsoft Internet Explorer 6.0  • Firefox 2.0 or later  • Netscape Navigator 7.1 or later
RTIF1- 071116-005			O	While system power on, when the XSCF switching performed by switchscf(8) command, PANIC might be generated in XSCF before it switches, and "SHUTDOWN timeout" may be stored in the error log.	No workaround is available. This message can be safely ignored.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 071116-006			0	While XSCF is running, error message of "hang-up is detected" might be displayed to XSCF console, and XSCF may reboot.	Check that XSCF is started. If not started, use the rebootxscf(8) command to restart XSCF, or stop all the domains 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- 071129-001		0	0	If the following message is displayed on XSCF console, the XSCF might not start:  dbs[xxx]: ERR: scdb_init_all(): xx, No space left on device In addition, this error log might be registered: XSCF process down detected	Replace the XSCF Unit.
RTIF1- 071129-002		O	O	When performing XSCF Shell commands remotely using SSH on the remote-control device, the following messages might be displayed: stty: standard input: Invalid argument	None available at this time.
RTIF1- 071129-003		O	O	An error log cannot be registered in XSCF when the following message is displayed on Oracle Solaris OS by the I/O error: SUNW-MSG-ID: SUN4-8000-4P, TYPE: Fault	No workaround is available.
RTIF1- 071129-004		O	O	The following messages are displayed and you might not boot Oracle Solaris OS:  • Abnormal OpenBoot environment variable Boot process failed  • ERROR: Invalid token '' FATAL: NVRAM contents corrupt; Reinitializing NVRAM parameters.	Confirm the OpenBoot PROM environment variable. If the variable has errors, set the variable again.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 071227-001		O	O	In XSCF, write of date and time may become an error. When the domain powered on, the following message may appear and the domain may fail to be powered on.	Execute the rebootxscf(8) command to restart XSCF.
				Poweron canceled due to invalid system date and time.	
RTIF1- 071227-002		O	O	When the showhardconf(8) command executed in an environment with the External I/O Expansion Unit, the showhardconf(8) command may appear as if hang up.	Press Ctrl-C to terminate the showhardconf(8) command and execute the showhardconf(8) command again.
RTIF1- 071227-003		O	O	When a non-existent device name specified to the Boot device path and resulted in the OS Boot error, the status of I/O unit may become "Degraded."	Specify the correct device name to the Boot device path.  When the status of I/O unit became "Degraded," replace the I/O unit.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 080313-001		0	O	When you set XSCF as the NTP server of the domain, following message may appear on the domain console at the domain start and you may fail to perform time synchronization.  ntpdate[xx]: no server suitable for synchronization	Perform either one of the following workarounds depending on the mode which has been set in the xntpd of the domain.  Note - In case of step mode, the time correction induces the time step.  When the time step occurred, it may affect the applications running on the domain.
				ntpdate[xx]: no server	• In case of step mode: Specify the -w option to execute the ntpdate(1M) command. Until it succeeds in synchronizing with the NTP server, the ntpdate command retry continues at regular intervals. In the retries, the message which indicates that it failed to synchronize with the NTP server can be safely ignored. When the synchronization completed, the time will be corrected to the time of the NTP server.
					• In case of slew mode: Execute the ntpdate(1M) command without specifying the - w option. In slew mode, the time variance from the NTP server will be corrected at 0.5 ms/second intervals. The message which indicates that it failed to synchronize with the NTP server can be safely ignored. Before the time completely corrected, there remains a time variance between the NTP server and the domain.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 080325-001		0	0	(M8000/M9000 servers) When you turn on AC power, or when you execute the rebootxscf(8) or switchscf(8) command, either of the following situations may occur.  • Following error message gets registered in the error log, the status becomes Faulted, and the standby XSCF becomes unable to start.  Device error on serial interconnection between XSCFUs  • You become unable to log in to XSCF and your press on the POWER switch on the operator panel can't turn on the power.	(M8000/M9000 servers)  Before turning on AC power, or executing the rebootxscf(8) or switchscf(8) command, please confirm that XSCF LAN has been correctly connected and linked up.  In case the situation in question occurred, please take either of the following actions.  • Use the replacefru(8) command to reattach the standby XSCF unit.  • Turn off the power of all domains and then execute the system power off/on. To turn on the power that you turned off, wait at least 30 seconds before power-on.
				(M4000/M5000 servers) When you turn on AC power, or when you execute the rebootxscf(8) command, you may become unable to log in to XSCF and your press on the POWER switch on the operator panel may fail to turn on the power.	(M4000/M5000 servers)  Before turning on AC power, or executing the rebootxscf(8) command, please confirm that XSCF LAN has been correctly connected and linked up.  In case the situation in question occurred, please turn off the power of all domains and then execute the system power off/on. To turn on the power that you turned off, wait at least 30 seconds before power-on.
RTIF1- 080404-001		O	O	Following a dynamic reconfiguration operation using the XSCF commands deleteboard(8) and addboard(8), you might see I/O channel degradation, resulting in error messages and entries in the corresponding ereport.  If you run into this problem, the fmdump(8) command will report the following error by mistake:	The MSG-ID assigned to the error displayed and the actual behavior may not be consistent, and reset or degradation may not occur. Contact a qualified service engineer and give the error code that displayed by using the showlogs error command.
				ereport.chassis.SPARCEnterpri se. asic.ioc.ch.leaf.fe	

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 080404-002		O	O	When you use the command setsnmpusm passwd to set a password, if you set a password of fewer than eight characters, a segmentation fault occurs.	Always set a password of at least eight characters.
RTIF1- 080512-001		Ο	Ο	When you specify "localhost" to the hostname of the sethostname(8) command and reset XSCF by using the applynetwork(8) and the rebootxscf(8) commands, a process goes down in XSCF.	Do not specify "localhost" to the <i>hostname</i> of the sethostname(8) command.
RTIF1- 080512-002			O	When the NTP setting are enabled, a message as follows may appear on the XSCF console.  Output sample: -xx.xxx.xxx.xxx mode 4 code 1 auth 0 clock_filter: n 8 off -0.000310 del 0.001300 dsp 0.001158 jit 0.000172, age 0 clock_update: at 637535 assoc 2 local_clock: assocID 54190 offset - 0.000309657 freq -9.765 state 4	This message can be safely ignored.  No workaround is available.
RTIF1- 080512-003		Ο	Ο	To a domain which is in Quad-XSB configuration, when you perform active addition of PCI cards and then restart the domain, active addition of PCI cards may become unavailable afterwards.	Do not perform active addition of PCI cards. When you failed in active addition of PCI cards, stop the domain to add on the cards.
RTIF1- 080520-001			Ο	BUI Domain Operation page mistakes the operation demand for Domain 8 or 9, and it issues it to DID#00 wrongly.	Do not perform active addition of PCI cards. When you failed in active addition of PCI cards, stop the domain to add on the cards.
RTIF1- 080526-001		O	O	When the system is stressed with many faults, the fmd process on the service processor might hang. Once this happens, fma commands on the service processor can fail or hang.	Reboot the service processor using the XSCF command rebootxscf(8).

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 080620-001		О	О	The SNMP-trap not notified in the event that the power cable of the server got unplugged accidentally.	No workaround is available.
RTIF1- 080725-003		O	O	The initial value that set with the setdomparam set-defaults option differs from the initial value of OpenBoot PROM.  parameters current value expected value diag-level none(0x00) min(0x20) auto-boot? false(0x00) true(0xff)	In the OpenBoot PROM prompt (ok>), execute the set-defaults command to restore the OpenBoot PROM environmental variables to the initial value.
RTIF1- 080725-004	O	Ο	O	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. Use the showlogs(8) command of the XSCF shell.
RTIF1- 080808-001		Ο	0	On the cluster system using the PRIMECLUSTER software, when there are 10 or more RCI units, the RCI busy status may be temporarily unreleased and output the following syslog message:  SA_pprcir.so to test host host_name failed	Refer to the manual of the PRIMECLUSTER software to check the cluster status. If no problem found on the status, this message can be safely ignored. If any problem, follow the instructions on the manual to solve the problem.
RTIF1- 081006-001	Ο	Ο	Ο	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, reexecute the firmware update.
RTIF1- 081006-002	Ο	Ο	Ο	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	Ο			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.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 081006-004	О	О	O	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 flashupdate(8) command to retry the firmware update.
RTIF1- 081006-005	0	O	O	The network configuration on the XSCF Web does not support the function equivalent to the setnetwork -r command. 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	Ο	Ο	O	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	Ο	Ο	O	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. Specify the <i>user</i> operand to execute the password(8) command when you specify other options.
RTIF1- 081006-011	Ο	Ο	Ο	SNMP trap host configuration changes are not valid until setsnmp disable and setsnmp enable.	Modify the SNMP setting:  XSCF> setsnmp disable  XSCF> setsnmp enable
RTIF1- 081016-001	O	Ο	Ο	Power failure at the commercial AC supply connector to the UPS does not send notification/send trap.	No workaround is available.
RTIF1- 081016-003	Ο	Ο	0	In Internet Explorer 6 or 7, clicking on the [Reset] button then the [OK] button from the Settings->Audit- >Add Policy pop-up 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.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 081030-001			0	The information related to the defined LSB cannot be displayed on XSCF Web "Domain Configuration" page with an account which has single domain privilege larger than DID15. In addition, the operation for such LSB by "XSB Config" button cannot be performed.	Use the showdcl(8), addboard(8), deleteboard(8), moveboard(8) command on the XSCF shell.
RTIF1- 081030-002	Ο	Ο	Ο	When the timezone other than three characters has been set, the error logs cannot be displayed on XSCF Web "Error Log" page. In addition, XSCF Web "Panic Log" and "IPL Message Log" pages display the date on the table with "".	Use the showlogs(8) command on the XSCF shell.
RTIF1- 081104-001	Ο	Ο	Ο	The monitor message log might not be registered when a PCI slot error detected.	No workaround is available. Use the showlogs error command or the fmdump command to check the fault information of PCI slot.
RTIF1- 090108-001	O	O	O	The domain console may display this message: ipsec_check_inbound_policy: Policy Failure for the incoming packet (not secure)	This message can be safely ignored.
RTIF1- 090108-002	O	O	O	In the dual power feed system, when the power failure and the power recovery occurred repeatedly on one line, all domains will be forcibly powered off. And in the power recovery from the forced power-off, a PSU illegal configuration might be registered in the error log and the power recovery might not be started.	You need to remove and insert the power cable.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 090108-004			0	When you replaced the XSCF unit by using the replacefru(8) command, there may be the DB synchronization timeout error log and the replacement may fail.	Turn off all mainline switches and then turn on again.  Or, just after the XSCF reset using the rebootxscf(8) command, execute the replacefru(8) command and extract and insert the XSCF unit which failed in replacement. If time passed after the XSCF reset, the replacefru(8) command may fail again. In such a case, re-execute the rebootxscf(8) command and the subsequent processes.
RTIF1- 090115-001	O	O	O	When you execute the settelnet -c disable command, the Telnet service will be stopped immediately. However, unless you reset XSCF by using the rebootxscf(8) command, you might fail in the subsequent restart of the Telnet service.	After you stopped the Telnet service, execute the rebootxscf(8) command to reset XSCF.
RTIF1- 090122-001	Ο	Ο	Ο	"Power recovery" message is output before a PSU has recovered.	After the "Power recovery" message is output, wait 60 seconds before removing power from another PSU.
RTIF1- 090220-001	O	O	O	In a system connecting multiple hosts and one or more I/O units with RCI, the power-on operation to one of those RCI hosts may not power on any of the RCI I/O units.	All the RCI hosts shall be powered on.
RTIF1- 090220-002	О	О	О	(M4000/M5000/M8000/M9000 servers)	(M4000/M5000/M8000/M9000 servers)
				After replaced the XSCF unit, the RCI power interlocking setting restores to its default value.  (M3000 server)	If you have set the power interlocking to a value other than the default, replace the XSCF unit and then use the setpwrmode(1M) command to set the power interlocking setting again.
				After replaced the motherboard unit, the RCI power interlocking setting restores to its default value.	(M3000 server)  If you have set the power interlocking to a value other than the default, replace the motherboard unit and then use the setpwrmode(1M) command to set the power interlocking setting again.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 090427-001	O	O	O	Despite the normal status of ppp network interface for the XSCF-to- Oracle Solaris OS communication, SNMP MIB notifies abnormal (down) status.	No workaround is available.
RTIF1- 090427-002	O	Ο	O	After the XSCF reset or switching, you cannot login to XSCF using the LDAP server.	No workaround is available.  Log in to active XSCF with initial account and execute the following command to re-import the certificate chain.  'setldap -c < remote file>'
RTIF1- 090427-003			O	After changed the SNMP configuration, when the XSCF switching occurred, the SNMP function may be disabled.	No workaround is available. In case this event occurred, the following command may restore the function. setsnmp disable setsnmp disable (run "setsnmp disable" twice) setsnmp enable
RTIF1- 090427-004	0	O	O	In the setting of the LDAP server, the number of characters which can be specified differs between XSCF Web and XSCF Shell. On XSCF Web, you can enter up to 128 characters.	To set 129 characters or more, use XSCF Shell.
RTIF1- 090430-001	О	О	Ο	After you set https (using the self certificate authority) by XSCF and created a web server certificate, https is not enabled.	To set the self certificate authority, do not specify a blank character.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 090508-001	0	O	O	In a domain mounted with the 10 Gigabit Ethernet card (SE0X7HE1F), when you set the OpenBoot PROM environmental variable diagswitch? to true, the following warning message appears on the console; and at the same time, "Msg: Device error (FCode informed error)" is recorded in the error log. WARNING: /pci@7,700000: FCODE map-in doesn't match decoded register type; And when you execute the showstatus(8) command, "Degraded" might be indicated to the FRU which has installed the relevant card.	The entire output can be safely ignored.  To avoid these outputs, execute the following command at the ok prompt and set the OpenBoot PROM environmental variable diagswitch? to false.  setenv diag-switch? false
RTIF1- 090729-001	О	O	O	When you use the sethttps(8) command to create a self-signed web server certificate, if the number of characters specified in a parameter exceeds 100, it might result in an internal error and you might fail to create the certificate.	Specify up to 100 characters in the parameter and execute the sethttps(8) command again.
RTIF1- 090824-001	0	O	O	The XSCF might go down and require a reboot, or you might see console error messages and a core dump (ereport.chassis.software.cor e) when one of these conditions occurs:  • A local account has been created with a user ID explicitly assigned to a value larger than 65536 (adduser -u uid).  • An LDAP account has been used that has a UID value larger than 65536.	Use only user accounts with a user ID (UID) value between 100 and 60000. This is the range of auto-assigned UIDs for the XSCF command adduser(8).
RTIF1- 091021-001	Ο	Ο	Ο	While Active Directory is enabled, if you log in to XSCF using the user name that registered in the Active Directory server, the showconsolepath(8) command displays not the log-in user name but "proxyuser."	No workaround is available.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 091105-001	О	О	O	The loadcert console operand is missing in the usage of the setad(8) command and the setldapss1(8) command.	For how to use the loadcert console operand of the setad(8) command and the setldapss1(8) command, see the man page.
RTIF1- 091109-001	O	O	Ο	Once domain detected a failure related to DIMM or PCI, the error log about this detected failure is registered every time you reset XSCF.	This error log can be safely ignored.
RTIF1- 091109-002	O	Ο	O	In XSCF, a host route cannot be set. When you use the setroute(8) command and set the netmask to 255.255.255.255, it returns an invalid parameter.	To set a host route, do not specify the netmask (-m option).
RTIF1- 091109-003	0	O	O	When you use the setnameserver(8) command or the DNS setting of XSCF Web to register the DNS server or the search path, you can specify two or more same IP address values or domain names. However, when you specify two or more same IP address values or domain names to delete all the DNS servers or the search paths which are same, it returns an invalid parameter.	To delete all the DNS servers or the search paths which are same, specify just one corresponding address or domain name.  In doing so, all the DNS servers or the search paths which are same will be deleted. Register the data again as needed.
RTIF1- 091109-004	O	O	O	When you start up a domain from a disk connected to the 8-Gbps fibre channel card (SE0X7F21F, SE0X7F22F), if you fail to specify the correct device path, an error log with no message might be registered.  In the same way, when you start up a domain from a disk connected to the 8-Gbps fibre channel card (SE0X7F21F, SE0X7F22F), even if the domain cannot be started due to reasons such as disk failure, the error log might not be registered.	No workaround is available.

 TABLE 3-3
 XCP Issues Fixed in Releases Earlier Than XCP 1100 (Continued)

ID	М3	M4/ M5	M8/ M9	Description	Workaround
RTIF1- 100713-001	0	0	0	While the Oracle Solaris 10 OS is running, if the occurrence of RED State Exception or watchdog reset or the execution of the reset xir command lead to the domain CPU reset, the following message might be displayed on the console and the domain might hang up.  Failed to complete trap processing. mid=0xXX	No workaround is available.  When this problem occurred, turn off the domain power and then turn on.
RTIF1- 100713-002			Ο	Though the mainline switch is on, the showhardconf(8) command might wrongly display the PSU status as "Breaker off" or "Input fail."	No workaround is available.

# Oracle Solaris OS Issues and Workarounds

This section contains information about Oracle Solaris OS issues. TABLE 3-4,TABLE 3-5, TABLE 3-6, TABLE 3-7, TABLE 3-8, TABLE 3-9, and TABLE 3-10 list issues you might encounter, depending upon which Oracle Solaris OS release you are using.

#### Oracle Solaris Issues and Workarounds for All Supported Releases

TABLE 3-4 lists Oracle Solaris OS issues that you might encounter in any supported release of Oracle Solaris OS.

TABLE 3-4 Oracle Solaris OS Issues and Workarounds for All Supported Releases

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
4816837		О	О	System hangs when executing parallel hot plug operation with SP DR in suspend phase.	No workaround is available.
6449315	O The Oracle Solaris OS cfgadm(1M) command does not unconfigure a DVD drive from a domain on a M8000/M9000 corvor.	command does not unconfigure a	Disable the Volume Management Daemon (vold) before unconfiguring a DVD drive with the cfgadm(1M) command.		
					To disable vold, stop the daemon by issuing the command /etc/init.d/volmgt stop. After the device has been removed or inserted, restart the daemon by issuing the command /etc/init.d/volmgt start.

 TABLE 3-4
 Oracle Solaris OS Issues and Workarounds for All Supported Releases (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6459540		O	О	The DAT72 internal tape drive on a server may time out during tape operations. The device might also be	Add the following definition to /kernel/drv/st.conf:
				identified by the system as a QIC drive.	tape-config-list=
				arive.	"SEAGATE DAT DAT72-000",
					"SEAGATE_DATDAT72-000",
					"SEAGATE_DATDAT72-000";
					SEAGATE_DATDAT72-000= 1,0x34,0,0x9639,4,0x00,0x8c,0 x8c,
					0x8c,3;
					There are four spaces between SEAGATE DAT and DAT72-000.
6466617		O	O	Performing a hot plug operation with the PCI-Express slot too quickly interrupts a PCI leaf reset and occurs the following error: cfgadm: Component system is busy error	Pause a few seconds between the issue of each cfgadm -c command.
6481002	O	O	O	Installing the Oracle 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 Oracle Solaris OS using either of these cards. Instead, use other network devices, such as the onboard Gigabit Ethernet or another network device.

 TABLE 3-4
 Oracle Solaris OS Issues and Workarounds for All Supported Releases (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6515648		0	O	"Replumb Failed" error appears when dr@0:SB1::memory fails.	Once the DR operation is complete, it can be plumbed up manually.  Example steps to re-plumb the interface manually:  # 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  This workaround assumes that the /etc/hostname.interface 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 /etc/hostname. <interface> file.</interface>
6516135		O	O	Ap_Id format and devices may not be shown correctly by cfgadm(1M).	Use the following operations to display all of the PCI slots.  1) devfsadm (at Oracle Solaris OS prompt)  2) cfgadm
6519290	O	O	O	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: set maxfastscan=0x2000
6522017		O	0	DR and ZFS may not be used in the same domain.	Reduce the amount of kernel memory that ZFS can allocate by setting the zfs_arc_max parameter in the /etc/system file. The following example sets the maximum size to 512 Mbytes.  set zfs arc max = 0x20000000

 TABLE 3-4
 Oracle Solaris OS Issues and Workarounds for All Supported Releases (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround		
6529714		О	О	Warning messages occur while trying to configure more than four X4447A-Z or X1027A-Z1 cards into one I/O Boat.	No workaround is available.		
6530753		Ο	O	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.  • boot -r (at open boot prompt)  • devfsadm -C (at Oracle Solaris OS prompt)  • cfgadm (twice at Oracle Solaris OS prompt)		
6531036	Ο	Ο	Ο	The error message network initialization failed appears repeatedly after a boot net installation.	No workaround is available. This message can be safely ignored.		
6532215	Ο	Ο	Ο	volfs or dscp service may fail when domain is booted.	Restart the service if the failure is observed. To avoid the problem, issue the following commands.		
						<pre>svc:/platform/sun4u/dscp:defa ult: Method "/lib/svc/method/svc-dscp start" failed with exit status 95.</pre>	<pre># svccfg -s dscp setprop start/timeout_seconds=count: 300 # svccfg -s volfs setprop start/timeout seconds=count:</pre>
			<pre>svc:/system/filesystem/volfs: default: Method or service exit timed out. Killing contract 59.</pre>	# svcadm refresh dscp # svcadm refresh volfs			
6565553 6611966 6674266		O	O	DR deleteboard(8) and moveboard(8) operations might fail. Example for messages on domain: drmach: WARNING: Device driver failure: /pci dcs: <xxxx> config_change_state: Hardware specific failure: unconfigure SB1: Device driver failure: /pci</xxxx>	No workaround is available. Try DR operations again.		
6588650		О	О	On occasion, the system is unable to DR after an XSCF failover or XSCF reboot.	No workaround is available.		

 TABLE 3-4
 Oracle Solaris OS Issues and Workarounds for All Supported Releases (Continued)

CR ID	М3	M4/ M5	M8/ M9	Description	Workaround
6589644			О	After added the system board by DR, when the switching occurred on the redundant XSCF Units, the domain console may hang up.	The console can be recovered by pressing Ctrl-q (the "Ctrl" key and the "q" key).
6592302		O	Ο	Unsuccessful DR operation leaves memory partially configured.	Try deleteboard(8) again.
6619344		Ο		The Sun Crypto Accelerator (SCA) 6000 card might not work if hot-plug configured into slot 1.	To avoid the defect, do not hot-plug this card in slot 1.
6625734			Ο	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 3-4
 Oracle Solaris OS Issues and Workarounds for All Supported Releases (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6660168	О	O	O	If a ubc.piowbeue-cpu error occurs on a domain, the Oracle Solaris Fault Management cpumem-diagnosis module might fail, causing an interruption in FMA service.	If FMA service fails, issue the following command on the domain to recover:  # svcadm clear fmd
				If this happens, you will see the following output in the console log: SUNW-MSG-ID: FMD-8000-2K, TYPE: Defect, VER: 1, SEVERITY: Minor	Then restart cpumem-diagnosis: # fmadm restart cpumem- diagnosis
				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</hostname>	
				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.			
			and response for subsequent events associated with this		
				REC-ACTION: Use fmdump -v -u <event-id> to locate the module. Use fmadm reset <module> to reset the</module></event-id>	

 TABLE 3-4
 Oracle Solaris OS Issues and Workarounds for All Supported Releases (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6723202	O			The raidctl command cannot be used to create a hardware RAID using the onboard SAS/LSI controller on the M3000 server.	No workaround is available. This issue will not be fixed.
				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.	
6745410	Ο	Ο	Ο	Boot program ignores the Kadb option which causes the system not to boot.	Use kmdb instead of kadb.
6765239	O			If a SAS device containing multiple SAS targets is connected to the onboard external SAS interface, it will not work properly. The enumeration of target IDs within the device may change across reboots.	Use a FUJITSU SAS card (SE0X7SA1F/SE0X7SA1X). Alternatively, check for the availability of a patch for this defect.
6794630			Ο	An attempt to use the GUI to install Oracle Solaris OS in a domain larger than 2TB might fail.	Use the Command Line interface to install Oracle Solaris OS.

### Oracle Solaris OS Issues Fixed in Oracle Solaris 10 9/10

TABLE 3-5 lists issues that have been fixed in Oracle Solaris 10 9/10 OS. You might encounter them in supported releases earlier than Oracle Solaris 10 9/10.

TABLE 3-5 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 9/10

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6668237 O	0	О	О	After DIMMs are replaced the corresponding DIMM faults are not cleared on the domain.	This has been fixed in patch 143527-01.
					[Workaround] Use the following commands: # fmadm repair fmri uuid # fmadm rotate
6872501	O	O	O	If 139555-08 has been applied to the domain, cores are not offlined when requested by the XSCF. This CR effects only Oracle Solaris 10 5/09, Oracle Solaris 10 10/09, and an earlier version of Oracle Solaris OS with patch 139555-08.	This has been fixed in patch 143359-02.  [Workaround]  Use fmdump(8) with its -v option on the Service Processor to identify the faulty core. Once identified, use psradm(1M) on the domain to offline the core.
6888928	O	O	O	IPMP interface fails since probe packets are not sent through that interface. Problem occurs with M3000/M4000/M5000/M8000/M9000 servers running any Oracle Solaris release running IPMP with patch 141444-09 installed.	This has been fixed in patch 142900-02.  [Workaround]  Disable probe-based failure detection.

### Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/09

TABLE 3-6 lists issues that have been fixed in Oracle Solaris 10 10/09 OS. You might encounter them in supported releases earlier than Oracle Solaris 10 10/09.

TABLE 3-6 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/09

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6572827	О	О	О	O The prtdiag -v command reports PCI bus types incorrectly. It reports "PCI" for PCI-X leaf devices and	This has been fixed in patch 141444-09.
				"UNKN" for legacy PCI devices.	[Workaround]
					No workaround is available.
6724307			О	Scheduler decisions systems are occasionally unbalanced.	This has been fixed in patch 141414-01.
				Sometimes two threads will be on one core (causing both to run at about half speed) while another core is idle. For many OpenMP and similar parallel applications, the application performance is limited by the speed of the slowest thread.  Uneven scheduling is not common, perhaps 1 in 50 or 1 in 100 decisions. But if there are 128 threads running, then the application might have at least one uneven schedule event.	[Workaround] Use processor sets to prevent uneven threads to core assignment.
6800734		О	O	The deleteboard(8) command hang in a domain.	This has been fixed in patch 141444-09.
					No workaround is available.
6816913		O	O	The XSCF showdevices(8) command displays the incorrect processor cache size (MB) for fractional processor cache sizes, such as displaying "5" when the correct display would be "5.5."	Use the prtdiag(1M) command on the domain to report processor information.

 TABLE 3-6
 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/09 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6821108		0	О	DR and showdevices(8) command do not work after XSCF reset.	This has been fixed in patch 140589-02.
					[Workaround]
					Reset the XSCF service processor twice. Half the SAs (Security Associations) are deleted the first time, half are deleted the second time, so the second addition succeeds and IPsec communication is reestablished.
6827340	Ο	O	O	DR and Memory patrol might fail due to command error.	This has been fixed in patch 142344-01.
					No workaround is available.

### Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/09

TABLE 3-7 lists issues that have been fixed in Oracle Solaris 10 5/09 OS. You might encounter them in supported releases earlier than Oracle Solaris 10 5/09.

TABLE 3-7 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/09

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6588555		О	О	(M8000/M9000 servers)  XSCF failover during DR operation to the permanent memory might cause	This has been fixed in patch 139555-08.
				domain panic.	[Workaround] (M8000/M9000 servers)
				(M4000/M5000 servers)  XSCF reset during DR operation to the permanent memory might cause domain panic.	Do not start an XSCF failover while a DR operation is running. Wait for a DR operation to finish before starting the failover. If you start the failover first, wait for the failover to finish before starting the DR operation.
					(M4000/M5000 servers)  Do not start an XSCF reset while a DR operation is running. Wait for a DR operation to finish before starting the reset.
6623226	Ο	О	O	The Oracle Solaris OS command lockstat(1M) or the dtrace lockstat provider might cause a system panic.	This has been fixed in patch 140336-01.
					[Workaround] Do not use the Oracle Solaris OS lockstat(1M) command or the dtrace lockstat provider.
6680733	O	Ο	O	Sun Quad-port Gigabit Ethernet Adapter UTP (QGC) & Sun Dual 10 GigE Fiber XFP Low Profile Adapter (XGF) NICs might panic under high load conditions.	This has been fixed in patch 139570-01.
					[Workaround]  If possible, use the card in x8 slot.  Otherwise, there is no workaround.

 TABLE 3-7
 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/09 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6689757	0	O	O	Sun Dual 10 GigE Fiber XFP Low Profile Adapter (XGF) with a single or improperly installed XFP optical transceivers might cause the following error to show on the console:  The XFP optical transceiver is broken or missing.	This has been fixed in patch 139570-01.  [Workaround]  Check and make sure that both XFP optical transceivers are firmly seated in the housing. Do not mix INTEL and Sun XFP optical transceivers in the same Adapter.  Do NOT plumb a port with the ifconfig command if the port does not contain an XFP optical transceiver or it contains one but the transceiver is not in use.
6725885	Ο			cfgadm will display non-existent M3000 system boards (SB1 to SB15).	This has been fixed in patch 140401-01.  The cfgadm output for SB1-SB15 can be ignored.

## Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/08

TABLE 3-8 lists issues that have been fixed in Oracle Solaris 10 10/08 OS. You might encounter them in supported releases earlier than Oracle Solaris 10 10/08.

TABLE 3-8 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/08

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6511374		O	O	Unexpected error messages may be displayed on console after changing the system configuration.	This has been fixed in patch 137137-09.
				Example: WARNING: Translation error source /LSB0/B0/0, PA 3c0000000000, target /LSB0/B0/20000000	This message can be safely ignored.

 TABLE 3-8 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6533686		О	О	When XSCF is low on system resources, DR operations involving relocating permanent memory, such	This has been fixed in patch 138397-01.
				as deleteboard(8) or moveboard(8), might fail with one or more of these errors:	[Workaround] Retry the DR operation at a later time.
				DR parallel copy timeout This applies only to Quad-XSB configured system boards hosting multiple domains.	
6535018			O	In Oracle Solaris domains that include SPARC64 VII processors, workloads that make heavy use of the Oracle Solaris kernel might not scale as expected when you increase the thread count to a value greater than 256.	This has been fixed in patch 137111-01.  [Workaround]  For Oracle Solaris domains that include SPARC64 VII processors, limit domains to a maximum of 256 threads.
6608404		Ο		Hot-plug of the X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP card in slot 1 might cause other network devices to fail.	To avoid the defect, do not install this card in slot 1.

 TABLE 3-8 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6614737		О	О	The DR deleteboard(8) and moveboard(8) operations might hang if any of the following	For Oracle Solaris 10 5/08 or earlier, this has been in patch 137111-01.
				conditions exist:	[Workaround]
				<ul><li>A DIMM has been degraded.</li><li>The domain contains system boards with different memory size.</li></ul>	Avoid performing DR operations if any of the listed conditions exist.
					To determine whether the system contains degraded memory, use the XSCF showstatus(8) command. For sample output, see "Identifying Degraded Memory in a System" on page 72.
					To determine whether the domain contains system boards with different memory sizes, display the list of memory sizes using the XSCF showdevices(8) command or the prtdiag(8) command on the domain. For sample of output, see "Identifying Different Memory Sizes in a System Board" on page 72
					If a DR command hangs, reboot the domain to recover.
6619224			0	For Oracle Solaris domains that include SPARC 64 VII processors, a single domain of 256 threads (128 cores) or more might hang for an extended period of time under certain unusual situations. Upon recovery, the uptime command will show extremely high load averages.	This has been fixed in patch 137111-03.
					[Workaround] For Oracle Solaris domains that include SPARC 64 VII processors, do not exceed a domain size of 256 virtual CPUs in a single Oracle Solaris domain. This means a maximum of 32 CPU chips in a single domain configuration (maximum configuration for an M8000 server).

 TABLE 3-8 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6632549		О	O	fmd service on domain might fail to maintenance mode after DR operations.	This has been fixed in patch 138050-01.
					[Workaround]
					If fmd service fails, issue the following commands on the domain to recover:
					# svcadm clear fmd
6660197		О	O	DR might cause the domain to hang if either of the following conditions exist:	This has been fixed in patch 138397-01.
				<ul> <li>A domain contains 256 or more CPUs.</li> <li>Memory error occurred and the DIMM has been degraded.</li> </ul>	<pre>[Workaround] 1. Set the following parameter in the    system specification file    (/etc/system): set</pre>
					<pre>drmach:drmach_disable_mcopy = 1 2. Reboot the domain.</pre>
6679370	Ο	O	O	The following message may be output on the console during the system booting, the External I/O Expansion Unit adding by hotplug, or the FMEMA operating by DR.	
					This has been fixed in patch 137137-09.
					<b>Note -</b> Before adapting the patch, delete the following setting from /etc/system:
				SUNW-MSG-ID: SUN4-8000-75, TYPE: Fault, VER: 1,	<pre>set pcie_expected_ce_mask = 0x2001</pre>
				SEVERITY: Critical	[Workaround]
				DESC: A problem was detected in	Add the following to /etc/system and then reboot the domain.
				the PCI-Express subsystem. Refer to http://sun.com/msg/SUN4-8000- 75 for more information.	<pre>set pcie_expected_ce_mask = 0x2001</pre>
				• • •	

 TABLE 3-8 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 10/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6720261 O	О	О	О	(M4000/M5000/M8000/M9000 servers)	This has been fixed in patch 137137-09.
				If your domain is running one of the following versions of Oracle Solaris OS, the system might panic/trap during normal operation:  • Oracle Solaris 10 5/08 OS  • An earlier version of Oracle Solaris 10 OS with patch ID 127127-11	[Workaround] Set the following parameter in the system specification file (/etc/system): set heaplp_use_stlb=0 Then reboot the domain.
				(M3000 server)	
				If your domain is running Oracle Solaris 10 5/08 OS, the system might panic/trap during normal operation:	

## Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/08

TABLE 3-9 lists issues that have been fixed in Oracle Solaris 10 5/08 OS. You might encounter them in supported releases earlier than Oracle Solaris 10 5/08.

TABLE 3-9 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/08

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
5076574			O	A PCIe error can lead to an invalid fault diagnosis on a large M8000/M9000 domain.	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11.  [Workaround]  Create a file /etc/fm/fmd/fmd.conf containing the following lines; setprop client. buflim 40m setprop client. memlim 40m
6402328			O	System panic might happen due to be over the interrupt number limit when one domain has seven or more IOUA cards.	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11.  [Workaround]  Use six or less IOUA cards on one domain.
6472153		O	O	If you create an Oracle Solaris OS Flash archive on a non-M4000/M5000/M8000/M9000 sun4u server and install it on a M4000/M5000/M8000/M9000 sun4u server, the console's TTY flags will not be set correctly. This can cause the console to lose characters during stress.	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 137046-01.  [Workaround]  Just after installing Oracle Solaris OS from an Oracle Solaris Flash archive, telnet into the M4000/M5000/M8000/M9000 server to reset the console's TTY flags a follows:  # sttydefs -r console # sttydefs -a console -i "9600 hupcl opost onlor crtscts" -f "9600"
					This procedure is required only once.

 TABLE 3-9 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6505921			О	Correctable error on the system PCIe bus controller generates an invalid fault.	For Oracle Solaris 10 8/07 or earlier, this has been fixed in 120011-14 and 125369-05.
					[Workaround]
					Create a file
					/etc/fm/fmd/fmd.conf
					containing the following lines;
					setprop client.buflim 40m setprop client.memlim 40m
6522433		Ο	0	O After the CPU hardware error occurred, the fmdump(1M) command on the domain may display an incorrect faulty component.	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11.
					Check system status on XSCF.
6527811		О	О	The showhardconf(8) command on the XSCF cannot display PCI card information that is installed in	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 128346-01.
	E E	External I/O Expansion Unit, if the External I/O Expansion Unit is configured using PCI hotplug.	No workaround is available.		

 TABLE 3-9 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6536564		О	О	showlogs(8) and showstatus(8) command on XSCF might report wrong I/O component due to wrong	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 125369-05.
				diagnosis by Oracle Solaris Fault	[Workaround]
				management Architecture when faults in I/O devices occur.	To avoid this problem, issue the following commands on the domain.
					<pre># cd /usr/platform/SUNW,SPARC- Enterprise/lib/fm/topo/plugin s</pre>
					<pre># mv ioboard.so ioboard.so.orig</pre>
					# svcadm restart fmd
					If the following messages are displayed on the domain, contact a service engineer.
					Example:
					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
6545143		O	O	O There is a low probability that a system panic can occur during trap processing of a TLB miss for a user stack address. The problem can occur if the user stack is unmapped concurrently with the user process executing a flush windows trap (ta 3). The panic message will contain the following string:  bad kernel MMU trap at TL 2	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127111-08.
					No workaround is available.

 TABLE 3-9 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6545685		0	0	If the following message displayed on the OS console, memory degradation or XSB deconfiguration may occur in the subsequent reboot.  Example: mc-opl: WARNING: mc-opl rewrite timeout on /LSB0/B0	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127111-08.  [Workaround]  Add the following to /etc/system and then reboot the domain: set mc-opl: mc_max_rewrite_loop = 20000
6546188		O	O	The system panics when running hotplug (cfgadm(1M)) and DR operations (addboard(8) and deleteboard(8)) on the following cards:  • X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP  • X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter	For Oracle Solaris 10 8/07, this has been fixed in patch 127741-01.  No workaround is available.
6551356		O	0	The system panics when running hotplug (cfgadm(1M)) to configure a previously unconfigured card. The message "WARNING: PCI Expansion ROM is not accessible" will be seen on the console shortly before the system panic. The following cards are affected by this defect:  • X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP  • X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter	For Oracle Solaris 10 8/07, this has been fixed in patch 127741-01.  [Workaround]  Perform cfgadm -c disconnect to completely remove the card. After waiting at least 10 seconds, the card may be configured back into the domain using the cfgadm -c configure command.
6559504		0	O	Messages of the form nxge: NOTICE: nxge_ipp_eccue_valid_check: rd_ptr = nnn wr_ptr = nnn will be observed on the console with the following cards:  • X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP  • X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter	For Oracle Solaris 10 8/07, this has been fixed in patch 127741-01.  [Workaround]  These messages can be safely ignored.

 TABLE 3-9 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/08 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6564934		O	O	Performing a DR deleteboard(8) operation on a board which includes Permanent Memory when using the following network cards results in broken connections:  • X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP  • X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter	For Oracle Solaris 10 8/07, this has been fixed in patch 127741-01.  [Workaround]  Re-configure the affected network interfaces after the completion of the DR operation. For basic network configuration procedures, refer to the ifconfig man page for more information.
6568417		O	O	After a successful CPU DR deleteboard(8) operation, the system panics when the following network interfaces are in use: • X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP • X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127111-02.  [Workaround]  Add the following line to /etc/system and reboot the system:  set ip:ip_soft_rings_cnt=0

**TABLE 3-9** Oracle Solaris OS Issues Fixed in Oracle Solaris 10 5/08 (*Continued*)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6571370		0	O	Use of the following cards have been observed to cause data corruption in stress test under laboratory conditions:  • X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP  • X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter	For Oracle Solaris 10 8/07, this has been fixed in patch 127741-01.  [Workaround]  Add the following line in /etc/system and reboot the system: set nxge:nxge_rx_threshold_hi=0
6584984			O	On the M8000/M9000 servers, busstat(1M) command may cause rebooting of domains.	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11.  No workaround is available. Do not
					use busstat(1M) command.  Check for the availability of a patch for this defect.
6589546		0	O	<ul> <li>prtdiag(8) command does not show all I/O devices of the following cards:</li> <li>XSEFC402AF Sun StorageTek</li></ul>	For Oracle Solaris 10 8/07 or earlier, this has been fixed in patch 127127-11.  [Workaround]  Use prtdiag -v for full output.

## Oracle Solaris OS Issues Fixed in Oracle Solaris 10 8/07

TABLE 3-10 lists issues that have been fixed in Oracle Solaris 10 8/07 OS. You might encounter them in supported releases earlier than Oracle Solaris 10 8/07.



**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. This bug has been fixed by 125100-06 and Oracle Solaris 10 8/07.

TABLE 3-10 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 8/07

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6303418			О	A M9000 server with a single domain and 11 or more fully populated system boards might hang under	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-01. [Workaround]
				heavy stress.	Do not exceed 170 CPU threads.
					Limit the number of CPU threads to one per CPU core by using the Oracle Solaris psradm command to disable the excess CPU threads. For example, disable all odd-numbered CPU threads.
6416224		O	О	System performance can degrade using a single NIC card with more than 5,000 connections.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
					[Workaround]
					Use multiple NIC cards to split network connections.
6441349		O	О	The system may hang if there is an I/O error in the system.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-07.
					No workaround is available.
6485555		Ο	Ο	On-board Gigabit Ethernet NVRAM corruption could occur due to a race condition.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
				The window of opportunity for this race condition is very small.	No workaround is available.

 TABLE 3-10 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 8/07 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6496337		О	О	The "cpumem-diagnosis" module may fail to load after uncorrectable error(UE) panic.	For Oracle Solaris 10 11/06, this has been fixed in patch 125369-05.
				Systems will function correctly but events normally automatically diagnosed by FMA using this module will require manual diagnosis.  Example:  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	[Workaround]  If problem occurred, implement the following workaround:  1. Remove the following file. # rm /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis  2. Restart fmd service. # svcadm restart fmd  To avoid this problem in advance, add "rm -f /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis" im /lib/svc/method/svc-dumpadm file as below.
					<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		O	O	Using the DR deleteboard(8) command while psradm operations are running on a domain might cause a system panic.	# For Oracle Solaris 10 11/06, this has been fixed in patch 120011-07.  No workaround is available.

 TABLE 3-10 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 8/07 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6499304		О	О	CPU isn't offlined and unexpected message is displayed on console when many correctable error(CE) occurs.	For Oracle Solaris 10 11/06, this has been fixed in patch 125369-05.
				Example:	[Workaround]
				SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Fri Feb 2 18:31:07 JST 2007	Check CPU status on XSCF.
				PLATFORM: SPARC-Enterprise, CSN: BE80601035, HOSTNAME: FF2-35-0	
6502204		Ο	Ο	Unexpected error messages may be displayed on console on booting after CPU UE panic.	For Oracle Solaris 10 11/06, this has been fixed in patch 125369-05.
				Example:	[Workaround]
				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, use the XSCF command showdomainstatus(8) to check system status on XSCF.
6502750		Ο	Ο	Notification message for inserted or removed card by PCI hot plug may not output.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
					No workaround is available.
6508432		О	О	Many correctable errors (CE) may occur, and despite these are the correctable errors, domain may panic.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
					[Workaround]
					Set the following to /etc/system and then reboot the domain:
					<pre>set pcie:pcie_aer_ce_mask = 0x2001</pre>
6508434		Ο	Ο	The domain may panic when an additional PCI-X card is installed or a PCI-X card is replaced by using PCI	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
				hot plug.	[Workaround]
					Do not insert a different type of PCI-X card on the same PCI slot by using PCI hot plug.

 TABLE 3-10 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 8/07 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6509337		О	O	s10s_u3 wanboot fails - The server returned 416: Requested Range Not Satisfiable.	No workaround is available.
6510861		Ο	O	When Dual-Channel Ultra320 SCSI Card (SE0X7SC2F, SE0X7SC2X) is mounted, correctable errors(CE) occur and system may panic.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
				and system may paint.	[Workaround] Add the following entry to the /etc/system file and then reboot the system:
					<pre>set pcie:pcie_aer_ce_mask = 0x31c1</pre>
6520990		О	О	Domain may cause a panic when deleteboard(8) command for kernel board by using Dynamic	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
				Reconfiguration (DR).	[Workaround]
					To mask this error, add the following entry to the /etc/system file.
					<pre>set drmach:fmem_timeout = 30</pre>
6527781			O	The cfgadm command fails while moving the DVD/Tape drive unit between two domains.	For Oracle Solaris 10 11/06, this has been fixed in patch 125081-06.
					No workaround is available. To reconfigure DVD/Tape drive unit, execute reboot -r from the domain exhibiting the problem.
6530178		O	0 0	O DR addboard(8) command can hang. Once problem is observed, further DR operations are blocked. Recovery requires reboot of the domain.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-07.
					No workaround is available.
6530288		Ο	О	Ap_Id format may not be shown correctly by cfgadm(1M) command.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-07.
					No workaround is available.

 TABLE 3-10 Oracle Solaris OS Issues Fixed in Oracle Solaris 10 8/07 (Continued)

CR ID	МЗ	M4/ M5	M8/ M9	Description	Workaround
6534471		О	О	Systems may panic/trap during normal operation.	For Oracle Solaris 10 11/06, this has been fixed in patch 125100-06.
					If a patch is not available, disable the kernel large page sTLB programming. In the file /etc/system, change the variable heaplp_use_stlb to 0: set heaplp_use_stlb=0
6535564		Ο	Ο	PCI hot plug to PCI slot #0, #1 or External I/O Expansion Unit may fail on XSB added by DR.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-08.
					[Workaround] Use DR instead of PCI hot plug if need to add or remove PCI card on the XSB.
6539084		O	O	Under Oracle Solaris 10 11/06, there is a low probability of a domain panic during reboot when the Quad GbE UTP x8 PCIe (X4447A-Z) card is present in a domain.	No workaround is available.
6539909		0	O	<ul> <li>Under Oracle Solaris 10 11/06, do not use the following I/O cards for network access when you are using the boot net install command to install the Oracle Solaris OS:</li> <li>X4447A-Z/X4447A-Z, PCIe Quadport Gigabit Ethernet Adapter UTP</li> <li>X1027A-Z/X1027A-Z, PCIe Dual 10 Gigabit Ethernet Fiber XFP</li> </ul>	Use an alternate type of network card or onboard network device to install the Oracle Solaris OS via the network.
6542632		О	O	Memory leak in PCIe module if driver attach fails.	For Oracle Solaris 10 11/06, this has been fixed in patch 120011-09.
					No workaround is available.

## Software Documentation Updates

This section contains late-breaking software information that became known after the documentation set was published and corrections in the M3000/M4000/M5000/M8000/M9000 servers 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. And they supersede the information on the man pages.

There are no additional updates planned at this time.

## Miscellaneous Information

## 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 00A on CMU#3 has degraded memory.

## Identifying Different Memory Sizes in a System Board

To identify if the domain contains system boards with different memory sizes, you can use either of the following commands to display the list of memory sizes:

- showdevices(8) command on the XSCF
- prtdiag(1M) command on the domain

#### Using the showdevices Command

1. Log in to XSCF.

#### 2. Type the following command:

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

The following example displays 00-0 has 64GB of memory while the other system boards have 16GB.

XSC	F> sh	owdevice	s -d 1					
Memo	ory:							
		board	perm	base	domain	target	deleted	remaining
DID	XSB	mem MB	mem MB	address	mem MB	XSB	mem MB	mem MB
01	00-0	63680	0	0x0000004000000000	260288			
01	03-0	16384	7384	0x0000034000000000	260288			
01	03-1	16384	0	0x0000030000000000	260288			
01	03-2	16384	0	0x000002c000000000	260288			
01	03-3	16384	0	0x0000028000000000	260288			

#### Using the prtdiag Command to Identify Memory Size

■ On the domain, execute the prtdiag command.

```
# prtdiag
```

The following example displays different memory sizes.

# pr	# prtdiag								
=====	======================================								
	Memory	Available	Memory	DIMM	# of Mirror	Interleave			
LSB	Group	Size	Status	Size	DIMMs Mode	Factor			
00	A	32768MB	okay	2048MB	16 no	8-way			
00	В	32768MB	okay	2048MB	16 no	8-way			
03	A	8192MB	okay	2048MB	4 no	2-way			
03	В	8192MB	okay	2048MB	4 no	2-way			
04	A	8192MB	okay	2048MB	4 no	2-way			
04	В	8192MB	okay	2048MB	4 no	2-way			
05	A	8192MB	okay	2048MB	4 no	2-way			
05	В	8192MB	okay	2048MB	4 no	2-way			
06	A	8192MB	okay	2048MB	4 no	2-way			

## Identifying Permanent Memory in a Target Board

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  $domain\_id$ .

XSC:	F> sho	wdevices	-d 0			
Mem	ory:					
		board	perm	base	domain	target deleted remaining
DID	XSB	mem MB	mem MB	address	mem MB	XSB mem MB mem MB
00	00-0	8192	0	0x000000000000000000000000000000000000	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(8) command or the moveboard(8) command, the following notice appears:

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

# Information About Hardware of M3000 Server

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

- "Notes and Limitations" on page 75
- "Hardware Documentation Updates" on page 78

## **Notes and Limitations**

## 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 not, 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.

#### 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/

#### CD-RW/DVD-RW Drive Unit

There are two types of CD-RW/DVD-RW drive units: slot-loading type and tray-loading type.

FIGURE 4-1 Types of CD-RW/DVD-RW Drive Unit Slot-loading type



**Note** – The locations of LED and button may vary depending on the servers.

**Note** – When you use the medium on the tray-loading type CD-RW/DVD-RW drive unit, make sure that the center of the medium is secured to the clamp of the tray, and then push the tray into the drive.

## 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.

## Power Control and Operator Panel Mode Switch

When you use the remote power control utilizing the RCI function or the automatic power control system (APCS), you can disable this remote power control or the APCS by setting the mode switch to Service mode on the operator panel.

Disabling these features ensures that you do not unintentionally switch the system power on or off during maintenance. Note that system power off with the APCS cannot be disabled with the mode switch. Therefore, be sure to turn off automatic power control via APCS before starting maintenance.

If you switch the mode while using the RCI or the automatic power control, the system power is controlled as follows.

TABLE 1 RCI and APCS Control with Mode Switch

Function	Mode switch				
	Locked	Service			
RCI	Remote power-on/power-off operations are enabled.	Remote power-on/power-off operations are disabled.			
APCS	Automatic power-on/power-off operations are enabled.	Automatic power-on is disabled, but power-off remains enabled.			

To use the RCI function, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI Build Procedure and the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI User's Guide.

To use the APCS, see the Enhanced Support Facility User's Guide for Machine Administration Automatic Power Control Function (Supplement Edition).

## 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

## Hardware Documentation Updates

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

TABLE 4-1 lists known documentation updates.

 TABLE 4-1
 Hardware Documentation Updates

Title	Page Number	Update		
SPARC Enterprise M3000 Server Site Planning Guide	2-4, 2-5	The height of container box indicated in TABLE 2-2 "Physical Specifications" and FIGURE 2-3 "Server Container Box" will be corrected. The correct value is 289 mm/11.4 in		
	3-6	The rush current and leakage current values will be added to TABLE 3-3 "Electrical Specifications". See "Electrical Specifications" on page 79 for detail.		
SPARC Enterprise M3000 Server Overview Guide	1-24	Section 1.4.5.2, "CD-RW/DVD-RW Drive Unit" will be changed. See "CD-RW/DVD-RW Drive Unit" on page 76 for detail.		
	1-25	1.4.6.2 "SAS Port"  The article on "SAS Port" will be replaced by the following.  The SAS port connects the server to an external device, such as a tape drive, which has an SAS interface. For information on which devices can be connected, contact a service engineer. Note that the transfer rate of this port is up to 600MB/s (3Gbps x 2wide).		
SPARC Enterprise M4000/M5000 Servers Service Manual	11-1	"Accessing the CD-RW/DVD-RW Drive Unit," in Section 11.1, will be added the explanation of the type of the drive unit and the identifying the drive unit. See "CD-RW/DVD-RW Drive Unit" on page 76 for detail.		

# Updates of the SPARC Enterprise M3000 Server Site Planning Guide

The following information supersedes the information in the *SPARC Enterprise M3000 Server Site Planning Guide*.

#### **Electrical Specifications**

This section explains the electrical specifications of the M3000 server.

**Note** – The electrical power values in TABLE 3-3 are the maximum values based on the fully configured server. The actual values may differ from these values, depending on the server configuration.

**TABLE 3-3** Electrical Specifications

	Specification				
Item	CPU: 2.52 GHz		CPU: 2.75 GHz		
Input voltage	100 to 120 VAC	200 to 240 VAC	100 to 120 VAC	200 to 240 VAC	
Number of power cords	2 (1 cord for each p	ower supply unit)	2 (1 cord for each power supply unit)		
Power cord length	3 m/9.84 ft		3 m/9.84 ft		
Redundancy	1 + 1 redundant co	nfiguration	1 + 1 redundant con	nfiguration	
Rated current*	4.80 A	2.59 A	5.15 A	2.81 A	
Frequency	50/60 Hz		50/60 Hz		
Maximum power consumption	470 W	460 W	505 W	500 W	
Apparent power	480 VA	517 VA	515 VA	562 VA	
Heat dissipation	1,603.7 BTU/hr (1,692 kJ/hr)	1,569.6 BTU/hr (1,656 kJ/hr)	1,723.1 BTU/hr (1,818 kJ/hr)	1,707.9 BTU/hr (1,802 kJ/hr)	
Power factor	0.98	0.89	0.98	0.89	
Rush current <sup>†</sup>	25 A or less	25 A or less	25 A or less	25 A or less	
Leakage current <sup>†</sup>	1.75 mA or less	1.75 mA or less	1.75 mA or less	1.75 mA or less	

<sup>\*.</sup> In a redundant configuration, the rated current per cord is half the value shown in TABLE 3-3.

t. This value represents the current for each power cord.

# Information About Hardware of M4000/M5000 Servers

This section describes the special instructions and the issues about the M4000/M5000 servers hardware.

- "Notes and Limitations" on page 81
- "Hardware Issues and Workarounds" on page 84
- "Hardware Documentation Updates" on page 84

## Notes and Limitations

#### Notes on Server Installation

The plug (NEMA L6-20) of the power cables supplied with the M4000/M5000 servers has the following dimensions.

Confirm in advance that the plug does not become an obstruction when plugged into the input power source at the installation site.

- Outside diameter of the connector part of the plug: 50 mm
- Maximum outside diameter of the plug cover: 57 mm
- Plug cover length from the connector end: 69.9 mm

#### Notes on DVD Drives 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.

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.

## Power Control and Operator Panel Mode Switch

When you use the remote power control utilizing the RCI function or the automatic power control system (APCS), you can disable this remote power control or the APCS by setting the mode switch to Service mode on the operator panel.

Disabling these features ensures that you do not unintentionally switch the system power on or off during maintenance. Note that system power off with the APCS cannot be disabled with the mode switch. Therefore, be sure to turn off automatic power control via APCS before starting maintenance.

If you switch the mode while using the RCI or the automatic power control, the system power is controlled as follows.

TABLE 5-1 RCI and APCS Control with Mode Switch

Function	Mode switch				
	Locked	Service			
RCI	Remote power-on/power-off operations are enabled.	Remote power-on/power-off operations are disabled.			
APCS	Automatic power-on/power-off operations are enabled.	Automatic power-on is disabled, but power-off remains enabled.			

To use the RCI function, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI Build Procedure and the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI User's Guide.

To use the APCS, see the Enhanced Support Facility User's Guide for Machine Administration Automatic Power Control Function (Supplement Edition).

#### Notes on Air Filter

Fujitsu does not handle the air filter which is shown in the SPARC Enterprise M4000/M5000 Servers Service Manual as a product.

#### Limitation for 1027A-Z/X1027A-Z

For 1027A-Z/X1027A-Z, PCIe Dual 10 Gigabit Ethernet Fiber XFP cards, these limits apply:

- Do not use more than two cards per domain.
- Do not use these cards in an External I/O Expansion Unit.

## Limitation for 4447A-Z/X4447A-Z

For 4447A-Z/X4447A-Z, PCIe Quad-port Gigabit Ethernet Adapter UTP cards, these maximum limits apply:

- No more than four cards in an External I/O Expansion Unit (two per PCIe I/O boat).
- No more than four cards in a M4000 server domain.
- No more than eight cards in a M5000 server domain.

## 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

## Hardware Issues and Workarounds

## Sun Crypto Accelerator 6000 Cards

If you are not using the correct version of the Sun Crypto Accelerator (SCA) 6000 card driver, hot-plug operations on SCA 6000 cards can cause the M4000/M5000 servers to panic or hang. Version 1.1 of the SCA6000 driver and firmware supports hot-plug operations after the required bootstrap firmware upgrade has been performed. Version 1.0 of the SCA6000 driver does not support hot-plug and should not be used.

## Hardware Documentation Updates

This section contains late-breaking hardware information that became known after the documentation set was published and corrections in the M4000/M5000 servers hardware documentation.

There are no additional updates planned at this time.

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# Information About Hardware of M8000/M9000 Servers

This section describes the special instructions and the issues about the M8000/M9000 servers hardware.

- "Notes and Limitations" on page 85
- "Hardware Issues and Workarounds" on page 87
- "Hardware Documentation Updates" on page 88
- "Miscellaneous Information" on page 88

#### Notes and Limitations

#### 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.

## Power Control and Operator Panel Mode Switch

When you use the remote power control utilizing the RCI function or the automatic power control system (APCS), you can disable this remote power control or the APCS by setting the mode switch to Service mode on the operator panel.

Disabling these features ensures that you do not unintentionally switch the system power on or off during maintenance. Note that system power off with the APCS cannot be disabled with the mode switch. Therefore, be sure to turn off automatic power control via APCS before starting maintenance.

If you switch the mode while using the RCI or the automatic power control, the system power is controlled as follows.

TABLE 1 RCI and APCS Control with Mode Switch

Function	Mode switch				
	Locked	Service			
RCI	Remote power-on/power-off operations are enabled.	Remote power-on/power-off operations are disabled.			
APCS	Automatic power-on/power-off operations are enabled.	Automatic power-on is disabled, but power-off remains enabled.			

To use the RCI function, see the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI Build Procedure and the SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Servers RCI User's Guide.

To use the APCS, see the Enhanced Support Facility User's Guide for Machine Administration Automatic Power Control Function (Supplement Edition).

#### Limitation for 1027A-Z/X1027A-Z

For 1027A-Z/X1027A-Z, PCIe Dual 10 Gigabit Ethernet Fiber XFP cards, these limits apply:

- Do not use more than two cards per domain.
- Do not use these cards in an External I/O Expansion Unit.

# Limitation for 4447A-Z/X4447A-Z with External I/O Expansion Unit

No more than four 4447A-Z/X4447A-Z, PCIe Quad-port Gigabit Ethernet Adapter UTP cards in an External I/O Expansion Unit (two per PCIe I/O boat).

## 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

## Hardware Issues and Workarounds

#### DVD Drives and cfgadm

The Solaris cfgadm(1M) command does not always unconfigure a DVD drive from a domain on the M8000/M9000 servers.

Disable the Volume Management Daemon (vold) before unconfiguring a DVD drive with the cfgadm(1M) command. To disable vold, stop the daemon by issuing the command /etc/init.d/volmgt stop. After the device has been removed or inserted, restart the daemon by issuing the command /etc/init.d/volmgt start.

## Sun Crypto Accelerator 6000 Cards

If you are not using the correct version of the Sun Crypto Accelerator (SCA) 6000 card driver, hot-plug operations on SCA 6000 cards can cause the M8000/M9000 servers to panic or hang. Version 1.1 of the SCA6000 driver and firmware supports hot-plug operations after the required bootstrap firmware upgrade has been performed. Version 1.0 of the SCA6000 driver does not support hot-plug and should not be used.

## Hardware Documentation Updates

This section contains late-breaking hardware information that became known after the documentation set was published and corrections in the M8000/M9000 servers hardware documentation.

TABLE 6-1 lists known documentation updates.

**TABLE 6-1** Hardware Documentation Updates

Title	Page Number	Update
SPARC Enterprise M8000/M9000 Servers Site	1-35	For the order number of Vibration-proof bracket and Vibration-proof feet, see "Cabinet Stabilization Measures" on page 88.
Planning Guide		

## Miscellaneous Information

#### Cabinet Stabilization Measures

#### Vibration-proof bracket

order number: CA06620-H901

By specifying the above, you can issue an order to get the following four kinds of parts. (You should order the bolt separately.)

■ Fixing bracket: C230-4130-X514 (x4)

■ Bushing: C230-4080-X003 (x4)

■ Metal washer: F6-WB12-121 (x4)

■ Metal washer: F6-WM12-121 (x4)

Bolt: F6-B12-\*\*\*121 (Bolt diameter: M12)

\*\*\*= Bolt length (mm)

The bolt length must be specified here.

**Note** – Consult with the company that constructed the building because the length depends on the structure of the building.

## Vibration-proof feet

order number: CA06620-H902

By specifying the above, you can issue an order to get the following parts. (You should order the bolt separately.)

■ F6-DA6G (x4)

Change this board leg (height adjustment leg) to the "F6-DA6G" and tighten the bolt from under the floor.

Bolt diameter: M20

Bolt length: 15 mm + floor thickness

**Note** – Consult with the company that constructed the building because the length depends on the structure of the building.