Fujitsu M10/SPARC M10 Systems

Product Notes for XCP Version 2091



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Contents

Preface vii
Chapter 1 Software Requirements 1
XCP/Oracle Solaris and Essential SRU/Patch 1
Required XCP/Oracle Solaris and essential SRU/patch to enable
dynamic reconfiguration of physical partition 3
How to Obtain XCP and Oracle Solaris SRU/Patch/Oracle VM Server for
SPARC 4
Web Browser 4
Existing XCP Firmware Versions and Support Information 4
Chapter 2 XCP 2091-Related Information 7
Latest Information on XCP 2091 7
Notes and Restrictions 7
Notes and restrictions on dynamic reconfiguration of physical
partitions 7
Notes on OpenBoot PROM 8
Notes on maintenance for CPU memory unit and motherboard unit 9
Notes on CPU Activation 10
Notes and restrictions on XSCF Web 10
Notes on firmware update 11
Notes on configurations with a PCI expansion unit connected 13
Notes on dual power feed setting 15

Other notes and restrictions 15 XCP 2091 Problems and Workarounds 20 Chapter 3 Information on Software 21 Notes and Restrictions 21 Notes on Oracle VM Server for SPARC 21 Notes on a case where openssl is used 22 Notes on remote maintenance service 23 Notes on SNMP 23 Problems with XCP and Workarounds 24 Problems that might occur with XCP 2091 and workarounds 24 Problems resolved in XCP 2091 39 Problems resolved in XCP 2090 39 Problems resolved in XCP 2080 50 Problems resolved in XCP 2070 54 Problems resolved in XCP 2052 65 Problems resolved in XCP 2051 66 Problems resolved in XCP 2050 66 Problems resolved in versions prior to XCP 2050 72 Problems with Oracle Solaris and Workarounds 91 Problems relating to all the versions of Oracle Solaris and their workarounds 91 Problems with Oracle Solaris 11 and workarounds 101 Problems with Oracle Solaris 10 and workarounds 101 Chapter 4 Information on SPARC M10-1 Hardware 103 Notes and Restrictions 103 Notes on using external DVD drive 103 Notes on using USB memory 103 Problems with Hardware and Workarounds 104 Chapter 5 Information on SPARC M10-4 Hardware 105 Notes and Restrictions 105 Notes on using external DVD drive 105

Notes on using USB memory 105 Problems with Hardware and Workarounds 106 Chapter 6 Information on SPARC M10-4S Hardware 107 Notes and Restrictions 107 Notes on using external DVD drive 107 Notes on using USB memory 107 Restrictions on replacing crossbar box 108 Restrictions on adding expansion rack 2 109 Problems with Hardware and Workarounds 109 Chapter 7 Information on PCI Expansion Unit Hardware 111 Direct I/O Function for the PCI Expansion Unit 111 Setting/displaying the direct I/O function 111 Logical Domain Configuration Information and Save/Restore Methods of OpenBoot PROM Environment Variable 112 Problems with PCI Expansion Units and Workarounds 119 Problems and their workarounds for all versions of the PCI expansion unit firmware 119 Problems resolved in version 1130 of the PCI expansion unit firmware 121 Problems resolved in version 1120 of the PCI expansion unit firmware 123 Problems resolved in version 1110 of the PCI expansion unit firmware 123 Problems resolved in version 1100 of the PCI expansion unit firmware 124 Chapter 8 Contents of Revision of Documentation 127 Contents of Revision of Fujitsu M10/SPARC M10 Systems System Operation and Administration Guide 127 Contents of Revision of Fujitsu M10/SPARC M10 Systems Domain

Configuration Guide 128

Contents of Revision of Fujitsu M10/SPARC M10 Systems XSCF Reference Manual 130

Preface

This document describes the latest information about XSCF Control Package (XCP) and the important and latest information regarding hardware, firmware, software, and documents of SPARC M10 Systems.

Note - If a newer version of XCP than the version supported in this document is released, only the document supporting the latest version of XCP is updated. In addition to reading this document, visit the following websites to see the document supporting the latest version of XCP. Check the contents and usage to confirm whether there are any corrections in the documents related to XCP version that you use.

Japanese site http://jp.fujitsu.com/platform/server/sparc/manual/
Global site http://www.fujitsu.com/global/services/computing/server/sparc/downloads/manual/

Fujitsu M10 is sold as SPARC M10 Systems by Fujitsu in Japan. Fujitsu M10 and SPARC M10 Systems are identical products.

This preface includes the following sections:

- Audience
- How to Use This Document
- Related Documentation
- Disposal and recycling
- Documentation Feedback

Audience

This document is designed for system administrators with advanced knowledge of a computer network and Oracle Solaris.

How to Use This Document

This document supports all models of SPARC M10 Systems. Depending on the server you use, read the related items listed in the following table.

Chapter titles	in this document	SPARC M10-1	SPARC M10-4	SPARC M10-4S
Chapter 1	Software Requirements	x	x	x
Chapter 2	XCP 2091-Related Information	x	x	x
Chapter 3	Information on Software	х	x	x
Chapter 4	Information on SPARC M10-1 Hardware	х		
Chapter 5	Information on SPARC M10-4 Hardware		x	
Chapter 6	Information on SPARC M10-4S Hardware			x
Chapter 7	Information on PCI Expansion Unit Hardware	x (when introduced)	x (when introduced)	x (when introduced)
Chapter 8	Contents of Revision of Documentation	x	x	x

The information about firmware and software, which are described in Chapter 1, Chapter 2, and Chapter 3, is common to all models. Some of the information are only related to a specific model. In such case, the applicable model name is indicated.

The information about hardware devices is provided in Chapter 4, Chapter 5, and Chapter 6 separately for each model. The contents common to all models are described in all chapters describing hardware. Therefore, when you check the hardware information about multiple models, you will find that some contents are duplicated in some chapters.

Check the information on the PCI expansion unit (Chapter 7) when the PCI expansion unit is introduced.

Contents of revision of documents (Chapter 8) are provided in each document. Check whether the contents of your document have been revised.

Related Documentation

All documents for your server are provided online.

- Oracle software-related documents (Oracle Solaris, and so on) http://www.oracle.com/documentation/
- Fujitsu documents Japanese site

http://jp.fujitsu.com/platform/server/sparc/manual/

Global site

http://www.fujitsu.com/global/services/computing/server/sparc/downloads/manual/

Note - This document is given priority over the information in the SPARC M10 Systems-related documents.

The following table lists the documents related to the SPARC M10 Systems.

SPARC M10 Systems related documentation (*1)

Fujitsu M10/SPARC M10 Systems Getting Started Guide (*2) Fujitsu M10/SPARC M10 Systems Quick Guide Fujitsu M10/SPARC M10 Systems Important Legal and Safety Information (*2) Software License Conditions for Fujitsu M10/SPARC M10 Systems Fujitsu M10/SPARC M10 Systems Safety and Compliance Guide Fujitsu M10/SPARC M10 Systems Security Guide Fujitsu M10/SPARC M10 Systems/SPARC Enterprise/PRIMEQUEST Common Installation Planning Manual Fujitsu M10/SPARC M10 Systems Installation Guide Fujitsu M10-1/SPARC M10-1 Service Manual Fujitsu M10-4/Fujitsu M10-4S/SPARC M10-4/SPARC M10-4S Service Manual PCI Expansion Unit for Fujitsu M10/SPARC M10 Systems Service Manual Fujitsu M10/SPARC M10 Systems PCI Card Installation Guide Fujitsu M10/SPARC M10 Systems System Operation and Administration Guide Fujitsu M10/SPARC M10 Systems Domain Configuration Guide Fujitsu M10/SPARC M10 Systems XSCF Reference Manual Fujitsu M10/SPARC M10 Systems RCIL User Guide (*3) Fujitsu M10/SPARC M10 Systems Product Notes Fujitsu M10/SPARC M10 Systems Glossary

*1 The listed manuals are subject to change without notice.

*2 The printed manual comes with the product.

*3 This document applies specifically to the FUJITSU M10 and FUJITSU ETERNUS storage system.

Documents provided on DVD-ROM SPARC M10/SPARC Enterprise Software DVD

Note - Enhanced Support Facility (ESF) and Remote Customer Support System (REMCS) are supported only for SPARC M10 systems sold within Japan by Fujitsu.

Remote maintenance service

Enhanced Support Facility User's Guide for REMCS (J2X1-7753-EN)

Information on firmware

This is information for customers of Fujitsu.

Obtain the firmware for your server from the following sources.

- Japanese site The customers who subscribed SupportDesk can obtain the firmware from the SupportDesk-Web.
- Global site
 For how to obtain the latest files of the firmware, contact your sales representatives.

The following files are provided.

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

Note - XSCF Control Package (XCP): XCP is a packaged control program of the hardware that configures SPARC M10 Systems. An XCP file includes the XSCF firmware, OpenBoot PROM firmware, Power-On Self Test firmware, and Hypervisor firmware.

Disposal and recycling

Note - This information is applicable to SPARC M10 systems sold within Japan by Fujitsu.

For product disposal and recycling (paid service), contact your sales representatives.

Documentation Feedback

If you have any comments or requests regarding this document, please take a moment to share it with us by indicating the manual code, manual title, and page, and stating your points specifically through the following websites:

- Japanese site http://jp.fujitsu.com/platform/server/sparc/manual/
- Global site http://www.fujitsu.com/global/services/computing/server/sparc/downloads/manual/

Chapter 1

Software Requirements

This chapter describes the software requirements for using SPARC M10 Systems.

- XCP/Oracle Solaris and Essential SRU/Patch
- How to Obtain XCP and Oracle Solaris SRU/Patch/Oracle VM Server for SPARC
- Web Browser
- Existing XCP Firmware Versions and Support Information

XCP/Oracle Solaris and Essential SRU/Patch

The following lists XCP, Oracle Solaris, and essential SRU/patch supported on SPARC M10 Systems.

Server	ХСР	Oracle Solaris	Required packages (*4) Required products (*5)	Essential SRU (*4) Essential patch (*5)
SPARC M10-1	2012 or later	Oracle Solaris 11.1	system/ldoms(*1) system/ldoms/ldomsmanager(*2)	SRU1.4 or later (*3)
		Oracle Solaris 10 1/13	Oracle VM Server for SPARC 3.0 or later (*3)	No
SPARC M10-4	2012 or later	Oracle Solaris 11.1	system/ldoms(*1) system/ldoms/ldomsmanager(*2)	SRU1.4 or later (*3)
		Oracle Solaris 10 1/13	Oracle VM Server for SPARC 3.0 or later (*3)	No
SPARC M10-4S (Direct inter-chassis connection)	2031 or later	Oracle Solaris 11.1	system/ldoms(*1) system/ldoms/ldomsmanager(*2)	SRU1.4 or later (*3)

 Table 1-1
 XCP/Oracle Solaris and essential SRU/patch support list

 Table 1-1
 XCP/Oracle Solaris and essential SRU/patch support list (continued)

Server	ХСР	Oracle Solaris	Required packages (*4) Required products (*5)	Essential SRU (*4) Essential patch (*5)
		Oracle Solaris 10 1/13	Oracle VM Server for SPARC 3.0 or later (*3)	No
SPARC M10-4S (Connection	2043 or later	Oracle Solaris 11.1	system/ldoms(*1) system/ldoms/ldomsmanager(*2)	SRU1.4 or later (*3)
through crossbar box)		Oracle Solaris 10 1/13(*6)	Oracle VM Server for SPARC 3.0 or later (*3)	No

*1: Required for the control domain and the guest domain. Included in group/system/solaris-large-server and group/system/solarissmall-server.

*2: Required only for the control domain. Included in group/system/solaris-large-server and group/system/solaris-small-server.

*3: Required only for the control domain.

*4: For Oracle Solaris 11.

*5: For Oracle Solaris 10.

*6: If Oracle Solaris 10 1/13 is to be run in the control domain, the CPUs that can be assigned to the control domain are those CPUs that are mounted on logical system boards with LSB numbers 0 to 7. There are no LSB number limitations on the CPUs that can be assigned to the guest domain. If the Oracle Solaris 10 1/13 is run in the guest domain, however, up to 1024 CPUs (vcpus) can be assigned to a single guest domain.

Note - When Oracle Solaris 11.1 is installed or booted from DVD media in a SPARC M10 system, the following two messages are output. Ignore these messages because they have no impact on installation work.

[Message example 1]

Dec 21 02:18:22 solaris genunix: NOTICE: core_log: ldmd[1978] core dumped: /tmp/core Dec 21 02:18:22 solaris svc.startd[9]: ldoms/ldmd:default failed fatally: transitioned to maintenance (see 'svcs -xv' for details)

[Message example 2] SUNW-MSG-ID: SMF-8000-YX, TYPE: defect, VER: 1, SEVERITY: major EVENT-TIME: Fri Dec 21 02:18:50 UTC 2012 PLATFORM: ORCL,SPARC64-X, CSN: 2081210008, HOSTNAME: solaris SOURCE: software-diagnosis, REV: 0.1 EVENT-ID: 5cf4edb8-0613-cbe0-acb1-a9a28a2fac10 DESC: A service failed - a start, stop or refresh method failed. AUTO-RESPONSE: The service has been placed into the maintenance state. IMPACT: svc:/ldoms/ldmd:default is unavailable. REC-ACTION: Run 'svcs -xv svc:/ldoms/ldmd:default' to determine the generic reason why the service failed, the location of any logfiles, and a list of other services impacted. Please refer to the associated reference document at http://support.oracle.com/msg/SMF-8000-YX for the latest service procedures and policies regarding this diagnosis. **Note** - When Oracle Solaris 11.1 is installed in SPARC M10 Systems, the following message appears at the start of Oracle Solaris.

[Example of message] WARNING: failed to instantiate provider ldmd for process 753 WARNING: failed to instantiate provider ldmd for process 753 Sep 24 06:15:59 svc.startd[11]: svc:/ldoms/ldmd:default: Method "/opt/SUNWldm/bin/ldmd_ start" failed with exit status 95. Sep 24 06:15:59 svc.startd[11]: ldoms/ldmd:default failed fatally: transitioned to maintenance (see 'svcs -xv' for details)

After Oracle Solaris 11.1 is installed, apply SRU1.4 or later. Then, the Oracle VM Server for SPARC package is updated to the version supporting SPARC M10 Systems, and such message will no longer be output.

For other information about Oracle Solaris, see "Problems with Oracle Solaris and Workarounds."

Required XCP/Oracle Solaris and essential SRU/patch to enable dynamic reconfiguration of physical partition

The following lists XCP, Oracle Solaris, and essential SRU/patch to enable dynamic reconfiguration of physical partition.

 Table 1-2
 XCP/Oracle Solaris and essential SRU/patch support list for dynamic reconfiguration of physical partition

Server	ХСР	Oracle Solaris	Required packages	Essential SRU
			Required products	Essential patch
SPARC M10-4S	2090 or later	Oracle Solaris 11.1	system/ldoms(*1) system/ldoms/ldomsmanager(*2)	SRU11.1.14 or later(*3)
		Oracle Solaris 10 1/13	None(*4)	None(*5)

*1: Required for the control domain and the guest domain. Included in group/system/solaris-large-server and group/system/ solarissmall-server.

*2: Required only for the control domain. Included in group/system/solaris-large-server and group/system/solaris-small-server.

*3: Required for the control domain and the guest domain. "For users of SRU11.1.14, an IDR patch (to fix BugID#17709858) is required to ensure stable DR functionality. Please contact your support representative to request the IDR. This issue has been resolved in SRU11.1.15 and newer."

*4: In case the control domain is Oracle Solaris 10, dynamic reconfiguration of physical partitions is not supported at this point.

*5: Do not apply patch 150400-01 to 150400-06.

How to Obtain XCP and Oracle Solaris SRU/Patch/Oracle VM Server for SPARC

The customers who subscribed SupportDesk can obtain the latest XCP firmware and Oracle Solaris SRU/patch/Oracle VM Server for SPARC from the SupportDesk-Web.

Web Browser

Table 1-2 lists the web browsers on which the XSCF Web operation is confirmed. For other information about XSCF Web, see "Notes and restrictions on XSCF Web."

Table 1-3 Version of web browser of which operation has been confirmed

Web browser	Version
Microsoft Internet Explorer	8.0 and 9.0
Firefox	10.0 or later

Existing XCP Firmware Versions and Support Information

The following lists the XCP firmware versions that have previously been released for the SPARC M10 System, as well as the main support and update information for each version.

Table 1-4 Previous XCP version releases and support information

XCP version	Main support information	CMU version
XCP 2091	Improvement of XCP firmware defects	02.09.0000

Iable 1-4 Previous XCP version releases and support information (contin

XCP version	Main support information	CMU version
XCP 2090	 Support of 64 GB memory Support of the dynamic reconfiguration (DR) function of the system board in a physical partition (PPAR) Support of multiple specifications of the port and community string for the Trap host of the SNMP agent function Support for automatic XCP firmware version synchronization between chassis when maintenance is done in off state of the input power supply. 	02.09.0000
XCP 2080	Support of the Auto Service Request (ASR) function	02.08.0000
XCP 2070	Improvement of XCP firmware defects	02.07.0000
XCP 2052	Support of the AES algorithm encryption function for the SNMP agent functionSupport of different memories in the chassis	02.05.0002
XCP 2051	Improvement of XCP firmware defects	02.05.0001
XCP 2050	Support of the direct I/O function for the PCI expansion unit (SPARC M10-4S)	02.05.0000
XCP 2044	Support of the direct I/O function for the PCI expansion unit (SPARC M10-1/M10-4)	02.04.0004
XCP 2042	Support of the crossbar box (configuration of up to 16 BB)	02.04.0001
XCP 2041	Support of the PCI expansion unit	02.04.0001
XCP 2032	Improvements related to the Oracle VM Server for SPARC software	02.03.0001
XCP 2031	Support of SPARC M10-4S (configuration of up to 4 BB)	02.03.0001
XCP 2013	Improvement of XCP firmware defects	02.01.0003
XCP 2012	Support of SPARC M10-1/M10-4	02.01.0002

Note - The version -c xcp -v command can be used to check the individual XSCF and CMU firmware versions in XCP.

Note - The CMU firmware version may differ with the XCP version. For example, in XCP 2042, the XSCF version is 02.04.0002, whereas the CMU version is 02.04.0001.

6 Fujitsu M10/SPARC M10 Systems Product Notes for XCP Version 2091 · June 2014

Chapter 2

XCP 2091-Related Information

This chapter provides XCP 2091-related information.

- Latest Information on XCP 2091
- Notes and Restrictions
- XCP 2091 Problems and Workarounds

Latest Information on XCP 2091

Here, we will explain the main changes in XCP 2091.

• The problem of setting up SNMP agent feature in XCP 2090 has been fixed (RTIF2-140117-001).

Notes and Restrictions

This section describes notes and restrictions that are known as of this release.

Notes and restrictions on dynamic reconfiguration of physical partitions

Notes

In case of dynamic reconfiguration of physical partitions, when adding an I/O device, it is necessary to either stop the domain or use the delayed reconfiguration feature to integrate the I/O device into the logical domain, after executing the addboard(8) command.

Moreover, when removing an I/O device, after removing the I/O device by

stopping the domain or using the delayed reconfiguration feature, execute the deleteboard(8) command in order to disconnect the system board. For details on each procedure, refer to the *SPARC M10 Systems Domain Configuration Guide*.

• After dynamic reconfiguration of a physical partition, the execution results of prtdiag(1M) executed from the control domain may differ from the actual physical configuration.

Executing "svcadm restart picl" can update to the latest information.

While adding or removing system boards with the addboard(8) or deleteboard(8) command of the DR feature, do not reboot all the XSCFs with either the "rebootxscf -a" command or from the XSCF Web interface. If such an operation is performed, not only the DR processing will terminate abnormally, Oracle Solaris on a running physical partition may hang, hardware failure may occur, physical partitions may stop abnormally and replacement of parts may become necessary.

Restrictions

- In case the control domain is Oracle Solaris 10, dynamic reconfiguration of physical partitions is not supported at this point. Create the control domain on Oracle Solaris 11.
- Do not specify either "unbind=resource" or "unbind=shutdown" at the "-m" option of the deleteboard(8) command when executing dynamic reconfiguration of physical partitions, as there is a chance of the logical domain to hang or the deleteboard(8) command to fail.

Due to this problem, memory module (DIMM) of different capacities cannot be mounted on a chassis, which is the target of the dynamic reconfiguration of physical partitions.

Make sure that the mounted memory modules (DIMMs) on chassis whose physical partition is the target of dynamic reconfiguration, are all of the same capacity.

Meanwhile, there is no problem if the number of DIMMs differs from chassis to chassis.

 Do not apply patch 150400-01 or newer on Oracle Solaris 10. In such a case, dynamic reconfiguration of physical partitions may cause system panic (CR 17510986).

Notes on OpenBoot PROM

 If you execute the sendbreak(8) command after the OpenBoot PROM banner appears on the domain console but before OpenBoot PROM startup is completed, the following error message is output. In this case, the boot command becomes unable to be executed.

FATAL: OpenBoot initialization sequence prematurely terminated.

In this case, set the OpenBoot PROM environment variable auto-boot? to false at the ok prompt, and execute the reset-all command. When OpenBoot PROM is restarted, set auto-boot? to true, and execute the boot command.

- When you use the XSCF firmware setpparparam(8) command to set an OpenBoot PROM environment variable, such as nvramrc, the maximum number of characters that can be set is 254. If you want to set a string of 255 or more characters in an OpenBoot PROM environment variable, such as nvramrc, do so in the OpenBoot PROM or Oracle Solaris environment. Note that, however, the maximum number of characters is
 - 1024.
- The OpenBoot PROM device aliases disk and net are not created for Oracle VM Server for SPARC disks and logical domains to which no network is assigned. To execute disk boot or network boot by specifying the device alias disk or net, set the device aliases disk and net by using the OpenBoot PROM nvalias command.

Notes on maintenance for CPU memory unit and motherboard unit

- The setting information of the CPU Activation and the CPU Activation key may be deleted when the CPU memory unit lower (CMUL) or the motherboard unit (MBU) is replaced. To restore the setting information of CPU Activation and the CPU Activation key, it is necessary to save the setting information of the CPU Activation and CPU Activation key beforehand, using the dumpconfig(8) command and restore them with the restoreconfig(8) command.
- To replace the lower part of the CPU memory unit (CMUL) or to install the SPARC M10-4S, execute the replacefru(8) or addfru(8) command and follow the maintenance menu.

Suppose that the system contains a crossbar box or consists of multiple SPARC M10-4S units and that the firmware is XCP 2044 or later. If the lower part of the CPU memory unit (CMUL) is replaced or if the SPARC M10-4S is installed without using the maintenance menu, the XSCF of the replaced/installed device may not start.

Should this occur, turn off the input power to the replaced/installed SPARC M10-4S. Subsequently, using the maintenance menu, replace the lower part of the CPU memory unit (CMUL) or install the SPARC M10-4S again.

[SPARC M10-4S]

From XCP2090 onwards, automatic synchronization of firmware versions between chassis, when replacement of CPU Memory Unit (Lower) (CMUL) or XSCF Unit, expansion of SPARC M10-4S or crossbar box is performed in off state of the input power supply, without using the maintenance menu, has been enabled.

After replacement or expansion of components, if the "XSCF firmware update now in progress. BB#xx,please wait for XSCF firmware update complete." message is output after logging in to the master XSCF, the XCP firmware is in the process of being updated automatically.

Automatic synchronization of XCP firmware versions can be confirmed by the "XCP firmware version synchronization completed" message, which is output by the "showlogs monitor" command.

Do not execute the following until the firmware update is complete.

- Turn off the input power supply
- Execute the poweron(8) command
- Execute the testsb(8) command
- Execute the diagxbu(8) command
- Execute the getflashimage(8) or the flashupdate(8) command

Notes on CPU Activation

• If the XSCF setting information is initialized by executing the restoredefaults(8) command in XCP 2032 or earlier, the information of the CPU Activation key is also initialized.

When executing the restored efaults(8) command, save the CPU Activation key in advance before restoring it or register the key again.

If you execute the restoredefaults -c xscf command on XCP 2041 or later, the information of the CPU Activation key is deleted not only from the XSCF unit but also from the backup information in the XSCF. On the other hand, even if you execute the restoredefaults -c factory command, the information of the CPU Activation key is not deleted.

To initialize all settings to factory defaults including the information of the CPU Activation key, use the -c factory -r activation option.

For the information of changes the restoredefaults(8) commands, see "Contents of Revision of Fujitsu M10/SPARC M10 Systems XSCF Reference Manual."

 XSCF setting information saved by the dumpconfig(8) command contains CPU Activation information and CPU Activation keys. You can use the restoreconfig(8) command to restore the CPU Activation information and CPU Activation keys that were saved with the dumpconfig(8) command.

Therefore, if you configure CPU Activation or install a CPU Activation key when configuring settings for the XSCF, such as when configuring an XSCF network or physical partition (PPAR), we recommend that you first save the CPU Activation information and CPU Activation key by using the dumpconfig(8) command. To save and restore only CPU Activation keys, execute the dumpcodactivation(8) and restorecodactivation(8) commands, respectively. Note, however, that CPU Activation information cannot be saved and restored. Use the showcod(8) and setcod(8) commands to reconfigure CPU Activation.

Notes and restrictions on XSCF Web

Notes

(1) Common to browsers

• When you import XCP or update the firmware by using XSCF Web, "Session is

invalid" may appear on the web browser.

 If the timeout of the XSCF shell is short when you import XCP by using XSCF Web, XCP importing fails. Set the timeout of the XSCF shell to 30 minutes or longer.

Select the [menu] tab and select [XSCF] - [Settings] - [Autologout] menu. Then, enter a value of 30 minutes or greater in [Time-out value].

(2) Internet Explorer

There are no notes known at present.

- (3) Firefox
- If you use XSCF Web in a Firefox environment, the browser may prompt you to save the login ID and password when you log in to the XSCF. In this case, do not save the login ID and password. If you save the login ID and password, the saved data may be displayed on LDAP, SMTP, and REMCS web pages.

Note - Remote Customer Support System (REMCS) is supported only for SPARC M10 systems sold within Japan by Fujitsu.

Configure either of the following settings to disable the login ID/password save function of the browser:

- Disable the login ID/password save function throughout the browser. Select [Tools] [Options] [Security] tab, and uncheck [Remember passwords for sites] in [Passwords].
- Specify the site as an exception to login ID and password saving. Select [Tools] -[Options] - [Security] tab, and check [Remember passwords for sites] in [Passwords]. Then, click the [Never Remember Password for This Site] button in the dialog box that appears for ID and password saving when you log in to the XSCF. This registers the address of the XSCF in the [Exceptions] list for ID and password saving, and the dialog box for ID and password saving does not appear at subsequent logins to the XSCF.

Restrictions

(1) Common to browsers

There are no restrictions known at present.

(2) Internet Explorer

If you use Internet Explorer 8 in a Windows 7 environment, built-in Administrator accounts cannot be used.

(3) Firefox

There are no restrictions known at present.

Notes on firmware update

[SPARC M10-4S]
 If you update the firmware by executing the flashupdate(8) command or using

XSCF Web, the time for the processing depends on the number of SPARC M10-4S chassis or crossbar boxes that configure the system.

The relationship of the master XSCF and the standby XSCF after the update of the XSCF firmware depends on the version of the updated XCP.
 The following table shows the relationship between the master XSCF and the standby XSCF as well as the operation of firmware update, for each XCP version.

 Table 2-1
 Difference between firmware update in XCP 2050 or later and in XCP 2044 or earlier

XCP version	Relationship between master XSCF and standby XSCF	Operation during firmware update
XCP 2050 or later	The master XSCF and the standby XSCF that have been switched over during update will return to the status before the switchover.	 Execute the flashupdate(8) command from the master XSCF of BB#00. The XSCF of BB#00 that has executed the flashupdate(8) command is in the standby status immediately after XSCF reset. XSCF automatic switchover is performed after the update has been completed. When XSCF automatic switchover is completed, the XSCF of BB#00 that has executed the flashupdate(8) command is restored to the status of the original master. Confirm that the update has been completed by referring to the log message for the master XSCF of BB#00.
XCP 2044 or earlier	The master XSCF and the standby XSCF that have been switched over during update will stay switched over.	 Execute the flashupdate(8) command from the master XSCF of BB#00. The XSCF of BB#00 that has executed the flashupdate(8) command is in the standby status immediately after XSCF reset. XSCF automatic switchover is not performed after the update has been completed. For this reason, the XSCF of BB#00 that has executed the flashupdate (8) command will stay in the standby status. Confirm that the update has been completed by referring to the log message for the master XSCF of BB#01. To restore the status of the master and standby XSCFs to the status before the update, execute the switchscf(8) command from the master XSCF of BB#01 to restore the XSCF of BB#00 to the master.

• When updating firmware, if the occurrence of a failure is indicated in "Problems with XCP and Workarounds" and a countermeasure is described as a workaround,

take the action to prevent the failure. After that, update the firmware.

Notes on configurations with a PCI expansion unit connected

[SPARC M10-1]

If one of the following cases, the logical domain configuration of physical partitions (PPARs) is restored to the factory-default state at the next startup. Moreover, when there is a guest domain in the logical domain configuration, the OpenBoot PROM environment variable is initialized.

- Firmware of version XCP 2043 or earlier is updated to that of XCP 2044 or later in a configuration with a PCI expansion unit connected.
- A PCI expansion unit is added to or removed from a system with firmware of XCP 2044 or later.

Save the logical domain configuration information to an XML file from Oracle Solaris in advance. Execute the ldm list-constraints -x command to save the logical domain configuration information to an XML file. Execute the ldm init-system -i command to restore the logical domain configuration information from an XML file. Make a note of the OpenBoot PROM environment variable setting information for the control domain beforehand so that you can subsequently reconfigure it.

To display the information, execute the printenv command in the ok prompt. For details of these procedures, see "Logical Domain Configuration Information and Save/Restore Methods of OpenBoot PROM Environment Variable."

If you need to save/restore information related to the PCI expansion unit configuration, see the information in the following table.

Mounting of PCI expansion unit	Domain configuration	Reconstructing Oracle VM Server for SPARC config	Setting OpenBoot PROM environment variables again
No	factory-default	Unnecessary	Unnecessary
No	Guest domain exists.	Unnecessary	Unnecessary
Yes	factory-default	Unnecessary	Unnecessary
Yes	Guest domain exists.	Necessary (XML)	Necessary

 Table 2-2
 Required work regarding the PCI expansion unit configuration

[SPARC M10-4/M10-4S]

If either of the tasks is performed with the setpciboxdio(8) command, using firmware of version XCP 2044 or later for the SPARC M10-4 or version XCP 2050 or later for the SPARC M10-4S, the logical domain configuration of the physical partitions (PPARs) is restored to the factory default at the next startup. Moreover, when the domain configuration includes a guest domain, the OpenBoot PROM environment variable is initialized.

- The enable/disable setting for the direct I/O function of the PCI expansion unit is

changed.

Yes/No

- A PCI expansion unit is added, removed, or replaced for a PCI slot of SPARC M10 chassis for which the direct I/O function of a PCI expansion unit is enabled.

Save the logical domain configuration information to an XML file from Oracle Solaris in advance. Execute the ldm list-constraints -x command to save the logical domain configuration information to an XML file. Execute the ldm init-system -i command to restore the logical domain configuration information from an XML file. Also, write down in advance the setting information of the OpenBoot PROM environment variable for the control domain, and set it again. To display the information, execute the printenv command in the ok prompt. For details of these procedures, see "Logical Domain Configuration Information and Save/Restore Methods of OpenBoot PROM Environment Variable."

If you need to save/restore various information when you change the enable/ disable setting of the direct I/O function of PCI expansion units by executing the setpciboxdio(8) command, the information in the following table applies.

comman	ıd		
Configuration of PCI expansion unit	Domain configuration	Reconstructing Oracle VM Server for SPARC config	Setting OpenBoot PROM environment variables again
Yes/No	factory-default	Unnecessary	Necessary

 Table 2-3
 Work for switching the enable/disable setting by executing the setpciboxdio command

Guest domain exists.

If you add, remove, or replace a PCI expansion unit for a PCI slot of SPARC M10 chassis for which the direct I/O function of a PCI expansion unit is enabled, by executing the setpciboxdio(8) command, the cases in which you need to save/restore information are listed in the following table.

Necessary (XML)

Necessary

Note - In maintenance on a PCI expansion unit with the PCI hot plug (PHP) function, the direct I/O function is disabled. Therefore, no information needs to be saved/restored.

 Table 2-4
 Work to be performed after you add, remove, or replace a PCI expansion unit for a PCI slot of SPARC M10 chassis for which the direct I/O function is enabled

Maintenance environment	Domain configuration	Reconstructing Oracle VM Server for SPARC config	Setting OpenBoot PROM environment variables again
When addition/removal is performed by stopping the PPAR	factory-default Guest domain exists.	Unnecessary Necessary (XML)	Unnecessary Necessary
When a faulty PCI expansion unit(*) is replaced by stopping the PPAR	factory-default Guest domain exists.	Unnecessary Necessary (XML)	Unnecessary Necessary
When a normal PCI expansion unit(*) is replaced by stopping the PPAR	factory-default Guest domain exists.	Unnecessary Unnecessary	Unnecessary Unnecessary

*1: Includes cases in which a link card, link cable, management cable, or link board is replaced.

Notes on dual power feed setting

The power supply unit of the SPARC M10 system is redundantly configured. Enabling or disabling the dual power feed function with the setdualpowerfeed(8) command does not affect the behavior of a redundantly configured system. Therefore, when the display results of the showdualpowerfeed(8) and showhardconf (8) commands, which are dependent on the setting of the setdualpowerfeed(8) command, also fall under any of the following conditions, the behavior of the redundantly configured system is not affected.

- The showhardconf(8) command displays "Power_Supply_System: Dual;" when the showdualpowerfeed(8) command displays "Dual power feed is enabled."
- The showhardconf(8) command displays "Power_Supply_System: Single;" when the showdualpowerfeed(8) command displays "Dual power feed is disabled."

The system administrator can use this setting function as a memo for determining whether the power supply unit has a dual power feed configuration.

Other notes and restrictions

Notes

- When the mode switch on the operation panel is set to Service mode, the power cannot be turned on by using the power switch on the operation panel. To turn on the power using the power switch on the operation panel, set the mode switch on the operation panel to the Locked mode position.
- To add the 64 GB memory, apply XCP 2090 or later.

[SPARC M10-1/M10-4/M10-4S]

The maximum number of users who can concurrently connect to the XSCF via Telnet and SSH is as follows:

- M10-1: 20 users
- M10-4: 40 users
- M10-4S (without crossbar box): 40 users
- M10-4S (with crossbar box): 70 users

If the maximum allowable number of users is exceeded, access is denied.

- XSCF-LAN is compliant with auto-negotiation. If you connect XSCF-LAN to a
 network device that is fixed to full-duplex mode, the XSCF-LAN communicates in
 half-duplex mode according to the IEEE 802.3 protocol. This may slow down the
 speed of network communication or cause communication error. Be sure to set
 auto-negotiation for network devices to which you connect XSCF-LAN.
- Settings made by the setdualpowerfeed(8) command are immediately applied. Therefore, the XSCF does not need to be reset.
- The ioxadm poweroff(8) command can be specified with the -f option only for a power supply unit.
- Configuring a memory mirror setting by using the setupfru(8) command should be done when the physical partition (PPAR) to which the target system board (PSB) belongs is powered off.
- To display a man page, set TERM=vt100 for the terminal software.
- When configuring a physical partition (PPAR), do not set a BB-ID that does not exist in the system as the PPAR-ID.
 For example, if BB-IDs 00 and 01 exist in the system, you can set 00 or 01 as the PPAR-ID. If you set 02 as the PPAR-ID, the PPAR with PPAR-ID 02 becomes unable to start.
- Among the information displayed by executing the showhardconf(8) command, the PCI Express (PCIe) card information of the guest domain will be reflected after Oracle Solaris of the corresponding guest domain has started.
- As of XCP 2032, the default value for the power save operation set by the setpparmode(8) command is changed from "enabled" to "disabled."
- When you execute the testsb(8) or diagxbu(8) command, a PPAR-ID of "PPAR#30" that does not exist may appear in an error log suspected area. This indicates that an error was detected on the system board (PSB) while diagnosing. The output PPAR-ID does not have any meaning.
- We recommend to connect the control domain console via the XSCF-LAN port. When a large amount of data is output by connecting to the control domain console via a serial port, the data may not be displayed properly.
- [SPARC M10-4S]

The time taken for processing a command that displays the system configuration or status (such as showhardconf(8) command, showboards(8) command, and showpparstatus(8) command) depends on the number of SPARC M10-4S chassis or crossbar boxes that configure the system.

[SPARC M10-4S]

For a system configured with multiple chassis, chassis BB#01 or XBBOX#81 may become the master XSCF first.

- [SPARC M10-4S] Depending on the system configuration, it may take time to reboot.
- If you add a SPARC M10-4S to the SPARC M10-4S on which XCP 2032 is installed, update to the latest firmware in advance.
- When you execute the setsnmpvacm(8) command specifying createview as the operand, you cannot set an access restriction using the OID mask of MIB. When you execute the setsnmpvacm(8) command specifying createview as the operand, do not use the OID mask of MIB.
- Do not register the same node with multiple power supply interlocking groups. If
 power supply interlocking is performed by registering a single node with multiple
 power supply interlocking groups, the operation may not be as intended.
 With the setremotepwrmgmt(8) command, you cannot confirm whether a single
 node is registered with multiple power supply interlocking groups. When creating
 or modifying a power supply interlocking group management information file,
 take care not to cause overlaps.
- Do not register an I/O node with multiple power control groups. If the same I/O node is set with multiple power supply interlocking groups, and both of the conditions below are met, the I/O node is turned on and off alternately.
 - setremotepwrmgmt -c enable is executed, and the power supply interlocking function is enabled.
 - There is a power control group in which one or more host nodes are on, and there is a power control group in which all the host nodes are off.

If you accidentally register an I/O node with multiple power control groups, use setremotepwrmgmt -c disable to disable power supply interlocking first and then use clearremotepwrmgmt to delete the power control group setting. After deletion, create a power supply interlocking group management information file so that the I/O node is not registered with multiple groups, and then use setremotepwrmgmt -c config to register it again.

- If XCP2080 or earlier is used together with a single SPARC M10 system that is connected to an external I/O device, do not use the power supply interlocking function. The external I/O device may be erroneously powered off when the XSCF is reset.
- If a takeover IP address has been set, the UDP packet sender IP address and Agent Address for the SNMP Trap of SNMPv1 are different. The IP address assigned to each XSCF-LAN (physical IP address) is stored as the UDP packet sender IP address, while the takeover IP address (virtual IP address) is stored as the Agent Address.
- The device path of the I/O device that has been used changes if a CPU memory unit (CMU) is added to add two CPUs when the I/O bus reconfiguration is enabled in SPARC M10-4 or SPARC M10-4S with two CPUs installed. As for the ioreconfigure that can be specified by -m function of the setpparmode (8) command, leave it as the default, false, and disable the I/O bus reconfiguration function.

If you enable the I/O bus reconfiguration function by specifying true to the

ioreconfigure, it may be necessary to reinstall Oracle Solaris.

 With a logical domain running Oracle Solaris 11, updating to XCP 2050 or later allows you to have an increased maximum number of PCIe cards on one root complex (RC).

To install a PCIe card after updating to XCP 2050 or later, perform the steps below in the control domain.

This example assumes that two sets of configuration information currently in use, ldm-set1 and factory-default, are stored.

1. Check the configuration information of the logical domain stored in XSCF.

```
primary# ldm list-spconfig
ldm-set1 [current]
factory-default
```

2. Execute the following commands on all of the logical domains, including the control domain.

Specify the name of the logical domain for Idom.

```
primary# ldm set-variable fix_atu=true <ldom>
primary# ldm remove-variable fix atu <ldom>
```

3. Store the updated configuration information for the logical domain again. Delete the stored ldm-set1 and then store the information again.

```
primary# 1dm rm-spconfig 1dm-set1
primary# 1dm add-spconfig 1dm-set1
```

4. Restart all logical domains.

 An XSCF user account name cannot be the same as an LDAP user name. In addition, an XSCF user account UID cannot be the same as an LDAP UID.

Restrictions

- At this point, no-mem and no-io, to be set with the -s option of the setpcl(8) command, are not supported.
- Alive monitoring between the XSCF and a Hypervisor is not supported. Alive monitoring between the XSCF and a Hypervisor cannot be enabled/disabled even by using the setpparmode(8) command.
- [SPARC M10-4S]

Suppose that the XSCF was switched while connecting to the control domain console in the SPARC M10-4S that is composed of more than two chassis. In that case, connection to the control domain console may not be established until all the SPARC M10-4S chassis have been restarted if an attempt has been made to reconnect the control domain console to the switched master XSCF.

If all XSCFs have not been restarted due to an error in the XSCF, establish a connection to the control domain console again. Replace a failed XSCF or CPU memory unit (lower) if a connection cannot be established to the control domain console.

[SPARC M10-4S]

The poweroff(8) and reset(8) commands may not be executed normally if all XSCF have not been restarted due to an error in a XSCF in the SPARC M10-4S that is composed of more than two chassis.

To disconnect the power of a physical partition (PPAR), login to the control domain of the PPAR and execute the shutdown(1M) command on Oracle Solaris. Then, disconnect the power of the PPAR using the poweroff -f command on the XSCF firmware. The reset(8) command cannot be used in this state.

- The -c wait option, which is used to set the air-conditioning wait time for the setpowerupdelay(8) command, is not supported at present.
- The following functions, which are used to set a remote user for an XSCF user account, are not supported at present:
 - Lightweight Directory Access Protocol (LDAP) functions: setIdap(8), showldap (8), setIookup(8), showlookup(8)
 - Active Directory functions: setad(8), showad(8)
 - LDAP/SSL functions: setIdapssl(8), showIdapssl(8)
- Replacement of a crossbar box using the replacefru(8) command is not supported at present. For how to replace a crossbar box, see "Restrictions on replacing crossbar box" in "Chapter 6 Information on SPARC M10-4S Hardware."
- Addition of a crossbar box using the addfru(8) command is not supported at present. For how to add a crossbar box, see "Restrictions on adding expansion rack 2" in "Chapter 6 Information on SPARC M10-4S Hardware."
- [SPARC M10-4S]

If you power on all physical partitions (PPAR) in a system that has more than one PPARs with the poweron(8) command, the startup time taken when specifying power-on of PPAR is longer than the time taken for batch power-on by specifying -a.

[SPARC M10-4/M10-4S]

As for the ioreconfigure that can be specified by -m function of the setpparmode (8) command, leave it as the default, false, and disable the I/O bus reconfiguration function. If you enable the I/O bus reconfiguration function by specifying true to the ioreconfigure, it may be necessary to reinstall Oracle Solaris.

[SPARC M10-4S]

If showhardconf -M is executed, it may not be possible to display one screen at a time if both of the conditions below are met. Do not execute showhardconf -M.

- System configured with 2BB or more
- One or more SPARC M10-4S units are subject to an XSCF reset by the rebootxscf(8) command, so they cannot communicate.
- [SPARC M10-1]

If firmware update to the version of XCP 2070 or earlier is executed when the physical partition (PPAR) is powered on, the logical domains may stop.

Be sure to execute firmware update when the physical partition (PPAR) is powered off. See "RTIF2-131004-001" of "Problems resolved in XCP 2070" for this issue.

XCP 2091 Problems and Workarounds

See "Problems that might occur with XCP 2091 and workarounds" for information on problems that can occur with XCP 2091. See "Problems resolved in XCP 2091" for information on problems resolved in XCP 2091.

Chapter 3

Information on Software

This chapter describes special instructions and problems concerning the SPARC M10 Systems software.

- Notes and Restrictions
- Problems with XCP and Workarounds
- Problems with Oracle Solaris and Workarounds

Notes and Restrictions

Notes on Oracle VM Server for SPARC

- If you operate a guest domain with the reset(8) command of the XSCF firmware after reconfiguring a logical domain with Oracle VM Server for SPARC and before executing the ldm add-spconfig command, another guest domain may be reset. Or the specified guest domain will not be reset. Save a configuration of the logical domain with the ldm add-spconfig command. If you reset the guest domain before saving it, execute the ldm stop command from the control domain, not from XSCF.
- If you specify a logical domain configuration for next time you start, use the ldm set-config command in place of ldm add-spconfig -r.
 If you use the ldm add-spconfig -r command to specify a logical domain configuration for next time you start, and operate a guest domain with the reset(8) command of the XSCF firmware, another guest domain may be reset.
- If you execute the ldm migrate-domain command with Oracle VM Server for SPARC for live migration, the following problems occur with the XSCF.
 - If you execute the showdomainstatus(8) command, "Unknown" is the status displayed for the migrated guest domain.

If you execute the ldm add-spconfig command from the migrated control domain to save configuration information, the status will be displayed normally

by the showdomainstatus(8) command.

- After live migration is executed, if showdomainstatus(8) is then executed at the migration source, "Host stopped" is the status displayed for the migrated and non-existent guest domain.
- When a physical partition (PPAR) is powered off by the poweroff(8) command, not all of the guest domains may be shut down correctly.
- When a guest domain is reset by the reset(8) command, a guest domain other than the specified one may be reset. If you reset the guest domain, execute from the guest domain, and not from XSCF.
- If SNMP is set, the name of the guest domain in trap notification may be incorrect.
- The migration with the ldm migrate-domain command is not supported if the logical domain at the migration source is in the OpenBoot PROM state.
 Perform migration with the ldm migrate-domain command after changing the logical domain at the migration source to either of the following states (CR 15858731):
 - Stopped state (bound state)
 - State where Oracle Solaris is running
- Be sure to start the ldmd service (svc:/ldoms/ldmd:default) of the control domain.

Notes on a case where openssl is used

Oracle Solaris provides accelerated cryptographic libraries for SPARC64 M10 systems. These libraries can be used by using the PKCS11 engine of OpenSSL. See man pages openssl(5), engine(30penssl), and evp(30penssl), or the following OpenSSL documents:

http://www.openssl.org/docs/crypto/engine.html http://www.openssl.org/docs/crypto/evp.html

Please note:

- The PKCS11 engine is the only way in OpenSSL to obtain the acceleration of cryptographic functions from the encryption arithmetic unit of the SPARC64 X processor.
- The implementation of PKCS11 engine for OpenSSL in Oracle Solaris requires the enabling of EVP model for digest and encryption methods supported by engine.
 - The following digest methods have been optimized for the SPARC64 X processor:
 - SHA1, SHA224, SHA256, SHA384, SHA512
 - The following encryption methods have been optimized for the SPARC64 X processor:

DES-CBC, DES-EDE3-CBC, DES-ECB, DES-EDE3 AES-128-CBC, AES-192-CBC, AES-256-CBC AES-128-ECB, AES-192-ECB, AES-256-ECB AES-128-CTR, AES-192-CTR, AES-256-CTR Here is an example on calling the accelerated version of AES method on SPARC64-X:

openssl speed -engine pkcs11 -evp AES-256-CBC

 To use the optimized digest method or encryption method in the PKCS11 engine with an application using the OpenSSL library (libssl, libcrypto), enable the EVP interface explained in evp(30penssl).

Notes on remote maintenance service

Note - Enhanced Support Facility (ESF) and Remote Customer Support System (REMCS) are supported only for SPARC M10 systems sold within Japan by Fujitsu.

This section describes notes when using the remote maintenance service. See *Enhanced Support Facility User's Guide for REMCS* for how to set and use REMCS.

Before setting the remote maintenance service

To use the remote maintenance service with SPARC M10 Systems, you must perform settings for the REMCS agent function by using XSCF Web. In addition, the REMCS agent uses timezone information of XSCF. Perform the following settings in advance with the XSCF shell:

- Setting necessary for using the XSCF Web, such as enabling the HTTPS setting
- Setting the timezone for XSCF

After completing the above settings, perform settings for the REMCS agent function by using the XSCF Web.

See *Fujitsu M10/SPARC M10 Systems System Operation and Administration Guide* for details of the XSCF Web settings and timezone settings.

Timezone for the REMCS agent function

The REMCS agent uses the timezone currently set for the system. For this reason, when you change the system timezone with XSCF, set the periodical connection schedule again to update the information of REMCS center.

Notes on SNMP

 When using the SNMPv3 agent, after setting up the authentication protocol and the encryption protocol using the setsnmp(8) command, be sure to set up User-based Security Model (USM) management information using the setsnmpus m(8) command and View-based Access Control Model (VACM) management information using the setsnmpvacm(8) command. Specification of the authentication protocol and the encryption protocol is required in the SNMPv3 agent setup process. Moreover, the password, set up when executing the setsnmp(8) and setsnmpusm(8) commands, will also be necessary.

If a server, on which the SNMP manager is not running, is registered as the inform trap host of SNMPv3, execution of setsnmp(8), setsnmpusm(8) or setsnmpvacm(8) commands may output the "Agent restart failed" message. This message is output when there is an abnormality in the restarting of the SNMP agent, but as the SNMP agent works properly even if this messages is output, it has no effect on the system. Register the trap host after the SNMP manager had been started.

Problems with XCP and Workarounds

This section describes problems with XCP and workarounds for each version.

Problems that might occur with XCP 2091 and workarounds

The following table shows problems that might occur with XCP 2091 and workarounds for them.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130109- 003	х	х	x	If you use the setpcl(8) command to change the LSB number of a SPARC M10 system chassis to which a PCI expansion unit is connected and start Oracle Solaris in the logical domain configuration, you cannot display the configuration information of the PCI expansion unit by executing the showhardconf(8) command.	Use the setdomainconfig(8) command to set the logical domain configuration to the factory-default, and power on the physical partition (PPAR). Then, configure the logical domain again.
RTIF2- 130219-004			x	If an error occurs with a crossbar unit mounted on a crossbar box, many instances of "failed to read/write interrupt mask register" may be registered in the error log.	There is no effective workaround. Power off the physical partition (PPAR) and replace the crossbar unit in the crossbar box.

 Table 3-1
 Problems that might occur with XCP 2091 and workarounds

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2- 130219-006	x	x	x	If you restart an XSCF by using the flashupdate(8) or rebootxscf(8) command while a physical partition (PPAR) is being powered on, the POST may stop in a state where the diagnosis is completed (Initialization Complete).	Execute the reset por command, or power off the PPAR by using the poweroff -f command and then power it on again.
RTIF2- 130219-007			х	When you turn on the input power to a crossbar box or SPARC M10-4S after disconnecting it in a system having a building block configuration, "Board control error (MBC link error)" may be registered in the error log. In addition, an non-existing crossbar box or SPARC M10-4S may be displayed as a faulty unit.	This error log is registered when you disconnect the input power supply. Ignore this error log.
RTIF2-130305- 001	x	x	x	"The limit of power has been exceeded" is registered in the event log if you perform the following. Execute the setpowercapping(8) command to set the power consumption limiting function to "Enable", the power consumption maximum allowable value to "Specify 100 percent (default)", and the time extension when exceeding the maximum allowable power consumption to "none." Then, turn on the input power supply or turn off the power to the physical partition (PPAR).	There is no effective workaround. Ignore this event log.
RTIF2-130305- 002	x	x	x	If an error in the CPU or memory is detected and if the XSCF is switched while the XSCF is notifying the error information to the control domain, the error information may not be notified again to the control domain. Because of this, the error information displayed with the showlogs error command is not displayed in the Fault Report output by the fmdump command.	There is no effective workaround. Maintain according to the FRU displayed by the showlogs error command.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130305- 003	Х	x	x	If you reconnect the input power cable soon after it is unplugged, the error log of PSUs detect 100V and 200V at AC inputs indicating that an error in the configuration of the input power supply may be registered. [XCP 2041 or later] Wrong PSU is installed [XCP 2032 or earlier] PSUs detect 100V and 200V at AC inputs	There is no effective workaround. Ignore this error log.
RTIF2-130305- 004			x	When an XSCF unit of SPARC M10-4S or crossbar box is replaced using the replacefru(8) command, the replacement may fail with the following message displayed. [Warning:010] An internal error has occurred.	Replace the unit again after the replacefru(8) command is completed. If replacement still fails, stop the system and then replace the unit.
RTIF2-130305- 007	х	x	x	FRU registered in the error log is displayed as "PPAR#30" if the configuration error of the system board (PSB) is detected when executing the testsb(8) command or diagxbu(8) command.	There is no effective workaround. Maintain the applicable PSB of SPARC M10 system chassis.
RTIF2-130305- 020			х	If an XSCF panic or hang-up occurs, an error log showing that "XSCF hang-up is detected" may be posted many times.	There is no effective workaround. Ignore the logs with the same contents that were notified at the same period of time considering that they are caused by the same reason.
RTIF2-130305- 022			x	The poweron(8) command may fail with the output of the following message if an error log showing that "XSCF hang-up is detected" was detected and an "unknown" system board (PSB) was found by the showboards(8) command. The same can be said for the instruction of power-on using the XSCF Web, APCS, or the power supply interlocking. Not powering on : An internal error has occurred. Please contact your system administrator.	There is no effective workaround. Use the showboards(8) command to replace the XSCF of the PSB, which is shown as "unknown".

 Table 3-1
 Problems that might occur with XCP 2091 and workarounds (continued)
RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130305- 023			x	If an error occurs in the DC-DC converter of a crossbar unit, "XB-XB interface link-up error." is erroneously registered instead of the correct error log of "LSI detected errors with power subsystem failure."	There is no effective workaround. Check for power errors if the error log of "XB-XB interface link-up error" was registered. Ignore the error log for "XB-XB interface link-up error" if a power error has occurred.
RTIF2-130305- 025			х	If the poweroff(8) command is executed in the system that has more than one physical partition (PPAR), it takes time for the processing because the power of the PPARs is disconnected one by one. Depending on the system configuration, it may take about one hour.	There is no effective workaround.
RTIF2-130329- 005	x			When you turn on the input power supply in SPARC M10-1, READY LED of XSCF remains blinking and the system may not start.	There is no effective workaround. Power off the input power supply and then power it on again.
RTIF2-130410- 001			х	The diagnosis of the system board may fail during the power-off of the system board (PSB) by executing the diagxbu(8) or testsb(8) command, displaying the following message. [Warning:010] An internal error has occurred.	There is no effective workaround. Execute the showhardconf(8) command to check that the Pwr field of the relevant PSB is set to "n". If the field is set to "y", execute the showhardconf(8) command every few minutes to check that the field changes to "n".
RTIF2-130410- 002			х	The switching of an XSCF may fail if the XSCF is switched by executing the switchscf(8) command while a physical partition (PPAR) is being powered on.	Do not switch an XSCF by using the switchscf(8) command while a PPAR is being powered on.
RTIF2-130410- 003			x	If a physical partition (PPAR) is powered on in the system that satisfies all the following conditions, other PPAR may also be powered on.	 When power supply interlocking is not necessary Disable power supply interlocking with setremotepwrmgmt -c disable

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
				 The power supply interlocking is enabled with the setremotepwrmgmt(8) command. A node is created whose SubNodeID is not set in a power supply interlocking management item. Multiple PPARs are configured. 	 and then delete the power supply interlocking setting with the clearremotepwrmgm t(8) command. When power supply interlocking is necessary If the system has multiple PPARs, create a management file for power supply interlocking by specifying a PPAR-ID as a SubNodeID, and then register the power supply interlocking setting with setremotepwrmgmt -c config.
RTIF2-130516- 002			x	If XSCF switching or an XSCF reset occurs while the physical partition (PPAR) is being powered off, it may be impossible to turn off the power.	There is no effective workaround. While powering off PPAR, do not use the switchscf(8) command to perform XSCF switching or the rebootxscf(8) command to perform an XSCF reset.
RTIF2-130516- 004			x	If a hardware failure occurs in a 4BB or greater configuration, automatic cluster switching may fail. If 16 or more guest nodes are incorporated into a single cluster, the following warning message may be output to the console of the control domain. SA SA_xscf????.so to test host ??? failed	If automatic cluster switching fails, follow the procedure in the manual of the cluster software to perform switching manually.
RTIF2-130516- 005	x	х	x	If the showcodactivation(8) command is executed while data is being restored with the restoreconfig(8) or restorecodactivation(8) command, it may be impossible to display the execution results. If this occurs, the showcodactivation(8) command ends with a "codd internal error".	The execution results can be displayed if the showcodactivation(8) command is executed after the execution of the restoreconfig(8) or restorecodactivation(8) command is completed.
RTIF2-130516- 006			x	If XSCF switching occurs while multiple physical partitions (PPARs) are being powered on at the same time, it may take more than than usual to power them on.	There is no effective workaround. Do not switch an XSCF by using the switchscf(8) command while PPARs are being powered on.

Table 3-1	Problems that might occur with XCP 2091 and workarounds (c	continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130702- 001		x	x	If the following applies, "I/O devices error detected" is detected at the time of PPAR power-on and control domain reboot: In SPARC M10-4/M10- 4S, the CPU memory unit upper (CMUU) is added to a configuration that has been operated with only the CPU memory unit lower (CMUL) and false has been set as the IOreconfigure setting of the physical partition (PPAR).	 There is no workaround for errors that are detected at power-on after the addition. Making the following setting prevents the error detection that occurs every time the PPAR is powered on or the control domain is rebooted. 1. After starting Oracle Solaris, execute the ldm rm-io command to delete the PCIe root complex of the added CMUU from the configuration of the control domain. 2. Execute the ldm add-spconfig command to save the constructed logical domain configuration to the XSCF.
RTIF2-130710- 001			x	If XSCF switching is performed using the switchscf(8) command, in rare cases, the standby XSCF may not start.	There is no effective workaround. [How to restore] Turn off and then turn on the input power supply (AC OFF/ON) to every SPARC M10-4S or execute the replacefru(8) command to perform pseudo replacement (replacement work without replacing any parts) of the SPARC M10-4S that does not start.
RTIF2-130711- 003			x	Before active replacement of the XSCF unit of the crossbar box is completed, the replacefru(8) command is completed normally.	When replacing the XSCF unit by using the replacefru(8) command, wait for 10 minutes after the following message is output, and then proceed to the next operation. After replacement has been completed, please select[f:finish] :
RTIF2-130801- 001			х	Even if you execute the switchscf(8) command, the XSCF may not be switched. At this time, the master XSCF and standby XSCF cannot communicate with each other, and the redundancy of the XSCF is not maintained.	There is no effective workaround. If the XSCF is not switched even by executing the switchscf(8) command, execute the replacefru(8) command to perform active replacement of the XSCF unit that is in the standby chassis. Also, when you

 Table 3-1
 Problems that might occur with XCP 2091 and workarounds (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
					disconnect the XSCF unit, disconnect and then connect the XSCF BB control cable.
RTIF2-130801- 002	x	х		If a DIMM failure occurs, a configuration error is erroneously detected and the following event log is registered. SCF:DIMM configuration error on PSB#xx-0	There is no effective workaround. Ignore this event log. Using the maintenance procedure for DIMM failures, turn off the input power to the SPARC M10 system chassis in which the failed DIMM is mounted, replace the DIMM, and then turn on the power. These steps will remove the configuration error and failure.
RTIF2-130802- 003			х	When you replace the XSCF unit of the crossbar box by using the replacefru(8) command, the command is completed normally, but the following error log may be registered. The suspected location indicated by this error log is incorrect. SCF:Board control error (link failed)	Replace the XSCF unit of the same crossbar box by using the replacefru(8) command again. If you have turned off the input power (AC OFF) during the replacement work, disconnect and then connect all the XSCF BB control cables.
RTIF2-131001- 001			х	If the SPARC M10-4S or the crossbar box is disconnected with the initbb(8) command, and then all chassis are turned off and then on again with the XSCF BB control cable left connected, the chassis disconnected with the initbb(8) command will become the master chassis, and the XSCF settings will be initialized to the factory defaults.	 Be sure to follow the procedure below when disconnecting the SPARC M10-4S and the crossbar box. 1. Execute the initbb(8) command to stop the target chassis. 2. Turn off the stopped chassis first and then disconnect the XSCF BB control cable.
RTIF2-131001- 002			х	While a physical partition (PPAR) is operating or when a PPAR is turned off, master/ standby XSCF switching may occur. If master/standby switching occurs, the following message is displayed on the console of the master XSCF.	There is no effective workaround. As a result of this defect, master/standby switching occurs, but this does not affect the system, and the system can be operated continuously.
				Kernel panic - not syncing: MBC Dual ifcut interrupt.	

Table 3-1 Problems that might occur with XCP 2091 and workarounds (cont	inued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131112- 001	x	x	x	If data is transmitted via SSH by the snapshot(8) -t command, this transmission may be delayed by about 10 to 30 minutes in comparison with transfer using USB devices and XSCF Web.	There is no effective workaround. Even if transfer is delayed, there is no problem with the collected data.
RTIF2-131112- 013			x	Suppose that multiple physical partitions (PPARs) are simultaneously started by the poweron -a command. The error message "Error storing configuration variable. LDC is not up Configuration variable setting will not persist after a reset or power cycle" may be output to the OS console after the message "Unable to connect to Domain Service providers." Oracle Solaris may be started without applying the OpenBoot PROM environment variable specified with the setpparparam (8) command.	There is no effective workaround. Restart the control domain for the physical partition (PPAR) for which the error message was output.
RTIF2-131126- 003	x	x	x	Update of the PCI expansion unit firmware may fail. If it fails, "LINKCARD update is failed" appears in the event log. [Example] SCF:LINKCARD update is failed (LINKCARD=1, bank=0, PCIBOX version=1130: last	There is no effective workaround. Execute the ioxadm -c update command to update the PCI expansion unit firmware again.
RTIF2-131126- 005	x	x	x	version=1120) The [Physical] or [Logical] tree displayed in the menu frame is not updated even if you click the [Refresh] button of the masthead frame on XSCF Web.	Click the [Physical] or [Logical] tab of the menu frame to redisplay the tree.
RTIF2-131212- 001			x	If there is a physical partition (PPAR) whose LSB number is 01 or larger, the "showlogs error" command either does not show the "I/O device error detected" log even if I/O errors occur, or the FRU in the "I/O device error detected" message is displayed mistakenly.	There is no effective workaround.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 001			x	In a configuration with 3 or more BBs, or with crossbar boxes, when the XSCF master/standby switchover is executed due to some abnormality on the master XSCF, the master XSCF may fail to switch over to the standby XSCF and start up as another master XSCF. Due to this, the system seems to contain two master XSCFs. Normal behavior of a system is not guaranteed when there are two master XSCFs in the system. This state can be confirmed by a lighted MASTER LED at the rear panel of two chassis.	There is no effective workaround. [How to restore] The system can be operated normally when the number of master XSCFs automatically returns to one after a few minutes. If the number of master XSCFs does not return to one even after 15 minutes, press the RESET switch at the rear panel of all existing SPARC M10 systems and crossbar boxes. The system can be operated normally after that.
RTIF2-131213- 002			x	While in the process of adding or removing a system board (PSB) using the addboard(8) or deleteboard(8) command of the DR feature, if another physical partition is rebooted due to hardware failure or the poweroff(8)/poweron(8)/reset(8) command is executed on it, the executed addboard(8) or deleteboard(8) command may detect timeout and terminate abnormally.	Do not execute the poweroff(8)/ poweron(8)/reset(8) command while the addboard(8) or deleteboard(8) command is being executed. There is no effective workaround if any hardware failure occurs while executing DR. [How to restore] Check the status of the system board (PSB) using the showboards(8) command. Execute the addboard(8) or deleteboard(8) command after that.

Table 3-1	Problems that might occur with XCP 2091 and workarour	nds	(continued	1)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 003			x	While executing the poweroff(8) /poweron(8)/reset(8) command on a physical partition, if the addboard(8) or the deleteboard (8) command of the DR feature is executed on another physical partition to add or remove a system board (PSB), the addboard(8) or deleteboard(8) command may detect timeout and terminate abnormally.	Do not execute the addboard(8) or deleteboard(8) command while the poweroff(8)/poweron (8)/reset(8) command is being executed elsewhere. There is no effective workaround if DR is executed while also executing power supply operations on another physical partition.
					 [How to restore] Execute the following: 1. Execute the showboards(8) command. 2. Check the status of /Pwr/Conn/Conf/Test of the system board (PSB) to confirm the end of power operations. End of power-on/reset: The status of Pwr/Conn/ Conf/Test is "y y y passed" respectively. End of power-off: The status of Pwr/Conn/Conf is "n n n" respectively 3. Re-execute the addboard(8) or the deleteboard(8) command.
RTIF2-131213- 004	х	х	x	If the PPAR DR feature is enabled/disabled on XSCF Web, selecting the [PPAR Operation]- [PPAR Mode Configuration] menu, selecting PPAR-DR (Current) or PPR-DR(Next) and clicking [Configure], a wrong dialogue box appears and the PPAR DR feature is not enabled / disabled.	Execute the XSCF setpparmode (8) command to enable/disable the PPAR DR feature.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 008			x	In a configuration with 3 or more BBs, or with crossbar boxes, after XSCF switchover occurs due to some problems on the master XSCF while the "addboard -c configure" command is running, the deleteboard(8) command, executed on the new master XSCF may not get any response. This symptom occurs if two master XSCFs exist on a system after a master/standby switchover of XSCFs. (Reference: RTIF2-131213-001) This state can be confirmed by a lighted MASTER LED at the rear panel of two chassis.	There is no effective workaround. [How to restore] Execute the deleteboard(8) command when the number of master XSCFs automatically returns to one after a few minutes. If the number of master XSCFs does not return to one even after 15 minutes, press the RESET switch at the rear panel of all existing SPARC M10 system and crossbar boxes. Execute the deleteboard(8) command after that.
RTIF2-131213- 009			x	The "Failed to evacuate board resources" message may be output when the addboard(8) or deleteboard(8) command of the DR feature is executed and the addition or removal of system boards with DR feature fails.	Re-execute the addboard(8) or deleteboard(8) command. If it fails again, either reboot the control domain or reboot the XSCF with the "rebootxscf –a" command. After that, re-execute the addboard(8) or deleteboard (8) command of the DR feature.
RTIF2-131213- 010	x	x	х	When the firmware of the PCI Expansion Unit is updated with the "ioxadm –c update" command, process down may occur at the XSCF firmware.	There is not effective workaround. Re-execute the "ioxadm –c update" command to update the PCI Expansion Unit firmware again.
RTIF2-131213- 011			х	When a SPARC M10-4S or a crossbar box is added using the addfru(8) command, the following message is output and the addition may fail. [Warning:036] Failed to find BB#x.	When the following maintenance menu is output after executing the addfru(8) command, input power on the SPARC M10-4S or the crossbar box to be added and execute the next operation (step 2) after 20 minutes.
				The BB-ID setting and/or the cable connections of the BB#x will be wrong. Please confirm the BB-ID setting and the cable connections. Do you want to try to add BB#x again? [a:add c:cancel]:	 Please execute the following steps: 1) After the added device is connected with the system, please turn on the breaker of the BB#x. 2) Please select[f:finish] : [How to restore] Input "a" in response to the

 Table 3-1
 Problems that might occur with XCP 2091 and workarounds (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
					"[a:add c:cancel] :" message and re-execute the addfru(8) command.
RTIF2-131213-			x	After replacing SPARC M10	There is no effective workaround.
012				with the replacetru(8)	[[] and the mediane]
				may not terminate properly.	Re-execute the replacefru(8)
				Example of the replacement of BB#2:	
				Diagnostic tests for BB#2 have	
				started.	
				start Continue?[v n] v	
				PSB#02-0 power on sequence	
				started.	
				030end	
				Initial diagnosis started.	
				[7200sec] 0 30 60 90 120	
				150180210240	
				270300330360390	
				420450480510	
				540570600630660	
				690720750780	
				Initial diagnosis has completed	
				PSB power off sequence started.	
				[1200sec]	
				0 30 60 90120	
				150180210240	
				270300330360390 420 450 480 510	
				420430430 540 570 600 630 660	
				690720750780	
				810840870900930	
				96099010201050	
				1080111011401170	
				I200end Failed to power off Please	
				check the FRU	
				An internal error has occurred.	
				Please contact your system	
				administrator.	
				done	
				[Warning:030]	
				testsb failed.[c:cancel] :	

Table 3-1	Problems that mig	ht occur with XCP	' 2091 and wor	karounds	(continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 015			x	In case, all of the three conditions below are met on a physical partition, the crossbar unit (XBU) error "Msg: XB-XB interface fatal error" is detected.	There is no effective workaround. Do not execute the poweron(8) or the reset(8) command while the XSCF BB control cable is disconnected.
				[Condition 1] The physical partition is configured by several SPARC M10-4S. [Condition 2] The XSCF BB control cables that are connected to the SPARC M10-4S chassis are either defective or have been disconnected. In such a case, the "Msg: BB control cable detected unexpected" error log is registered. [Condition 3] The physical partition was rebooted due to a hardware failure, the poweron(8) or reset(8) command was executed.	[How to restore] If hardware failure had occurred, execute power off and on, on the physical partition. If XSCF is performing retrial operations, execute the "poweroff -f -p <i>ppar-id</i> " command to forcibly power off the physical partition. After that power it on.
				Moreover, XSCF had either rebooted the physical partition due to a hardware failure or had performed retrial of the poweron(8) or the reset(8) command when this symptom occurred previously.	

 Table 3-1
 Problems that might occur with XCP 2091 and workarounds (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 019	x	x	x	While XSCF is starting after being powered on, watchdog timeout may occur and XSCF is reset. After this reset is completed, the configuration information of the components mounted on the system cannot be checked by the showhardcon f(8) command. Moreover, error logs regarding the following configurations may be registered. Msg:Indispensable parts are not installed (PSU). Msg:Indispensable parts are not installed (FAN). Msg:Indispensable parts are not installed (OPNL). Msg:PSU shortage Msg:FAN shortage	There is no effective workaround. [How to restore] Re-execute power off and on.
RTIF2-131213- 021			x	The timeout error log "Timeout detected during unconfiguration of PSB#xx-x." may be registered and an abnormal termination may occur when a system board (PSB) is removed by the deleteboard(8) command of the DR feature. In such a case, the showboards(8) command shows that the status of all the Pwr/Conn/Conf of the system board (PSB) is "y".	There is no effective workaround. [How to restore] Reboot all the XSCFs by executing the "rebootxscf -a" command.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 022			x	After firmware update, if the XCP version is checked by the version(8) command or the XSCF Web interface, versions of each crossbar box (XBBOX) or the XCP of SPARC M10-4S (BB) may not be the same as the updated XCP version. In the following example, although the firmware has been updated to XCP2052 from XCP 2042, the XCP of "XCP0 (Reserve):" of BB#00 has not been updated.	There is no effective workaround. [How to restore] Specify the BB-ID of the crossbar box (XBBOX) or of the SPARC M10-4S (BB), which was not updated, to the "rebootxscf -b <i>BB-ID</i> " command and execute it to reset the XSCF of the specified chassis.
				XSCF> version -c xcp -v XBBOX#80-XSCF#0 (Master) XCP0 (Reserve): 2052 XSCF : 02.05.0002 XCP1 (Current): 2052 XSCF : 02.05.0002 XBBOX#81-XSCF#0 (Standby) XCP0 (Current): 2052 XSCF : 02.05.0002 XCP1 (Reserve): 2052 XSCF : 02.05.0002 BB#00-XSCF#0 XCP0 (Reserve): <u>2042</u> CMU : 02.05.0002 POST : 1.43.0 OpenBoot PROM : 4.34.0+1.22.0 Hypervisor : 0.27.8 XSCF : 02.04.0000 XCP1 (Current): 2052 CMU : 02.05.0002 POST : 1.43.0 OpenBoot PROM : 4.34.0+1.22.0 Hypervisor : 0.27.8 XSCF : 0.2.05.0002	

 Table 3-1
 Problems that might occur with XCP 2091 and workarounds (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131218- 001	x	x	x	While Solaris OS is running, if physical partition is reset due to the output of the "Hypervisor Abort" message on the OS console, the state of Oracle VM Server for SPARC may change to maintenance mode at the next reboot of the physical partition.	There is no effective workaround. [How to restore] Reboot the control domain only. If the state of Oracle VM Server for SPARC does not become "online", execute the "rebootxscf -a" command to reset all the XSCFs and then check the state of Oracle VM Server for SPARC once again. If the state has not yet become "online", once more reboot the control domain only.
RTIF2-140507- 002			x	If the system board is deleted by dynamic reconfiguration of physical partitions, Oracle Solaris on the domain may panic, or Hypervisor may abort.	There is no effective workaround.

 Table 3-1
 Problems that might occur with XCP 2091 and workarounds (continued)

Problems resolved in XCP 2091

The following table lists the problems resolved in XCP 2091.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-140117- 001	x	x	x	When the setsnmp(8), setsnmpusm(8), setsnmpvacm (8) commands or [XSCF]- [Settings]-[Service]-[SNMP], [XSCF]-[Settings]-[Service]- [SNMP Security] on XSCF Web is executed, the "exclusive control file open error" error message is output and all setups regarding SNMP fail. This problem occurs only on XCP 2090.	Update firmware either to XCP 2080 or older, or to 2091 or newer.

Table 3-2 Problems resolved in XCP 2091

Problems resolved in XCP 2090

The following table lists the problems resolved in XCP 2090.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130219- 003			x	The following error log is registered if you remove a XSCF BB control cable when removing a SPARC M10-4S with the initbb(8) command or replace a SPARC M10-4S or an XSCF unit with the replacefru (8) command. Msg: Board control error (MBC link error) Msg: BB control cable detected unexpected Msg: XSCF hang-up is detected	There is no effective workaround. Ignore the error log.
RTIF2-130305- 009	x	x	x	Suppose that 129 or more IP addresses of the trap hosts are registered by the setsnmp addtraphost or setsnmp addv3traphost command. Then, executing the showsnmp(8) command displays each of the SNMPv1, SNMPv2, SNMPv2- inform, and SNMPv3 trap hosts, up to a maximum of 128 entries. Similarly, suppose that 129 or more entries are registered by the setsnmpusm create, setsnmpvacm creategroup, setsnmpvacm createview, or setsnmpvacm createaccess command. Then, executing the showsnmpusm or showsnmpvacm command displays no more than 128 entries for a user, view, group, and access.	There is no effective workaround. When 129 or more data entries are registered by the setsnmp(8), setsnmpusm(8), or setsnmpvac m(8) command without an abnormal end, the data entries have been registered successfully.

Table 3-3Problems resolved in XCP 2090

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround	
RTIF2-131023- 003	X X	x	x x	OID of scfDomainInfoGroup is duplicated and defined in the MIB definition file for XSCF expansion. Therefore, any attempt to install the MIB definition file for XSCF expansion in the server management software (e.g., JP1/Integrated Management manufactured by Hitachi) may fail.	Delete the line of text of the duplicated OID from the MIB definition file for XSCF expansion. Then, install the MIB definition file for XSCF expansion again. The line of text to be deleted is that in which scfDomainInfoGroup containing "::= { scfMIBObjectGroups 14 }" is defined. [Example] For the MIB definition file for XSCF expansion (XSCF-SP- MIB_2050.mib), delete the following lines 3558 to 3566.	
					3558: scfDomainInfoGroup OBJECT-GROUP 3559: OBJECTS { 3560: scfDomainNumber, scfPPARId, scfDomainName, 3561: scfDomainStatus 3562 3563: STATUS current 3564: DESCRIPTION 3565: "A collection of objects providing PPAR information." 3566: ::= { scfMIBObjectGroups 14 }	
RTIF2-131107- 001			х	If the XSCF BB control cable is faulty or loose or if an XSCF failure occurs, it may take several hours to disconnect or reset the power supply of the physical partition (PPAR) consisting of multiple SPARC M10-4S units.	There is no effective workaround.	

 Table 3-3
 Problems resolved in XCP 2090 (continued)

ne testsb(8) or 'nc command bdate(8) ig executed.
he testsb(8) or rnc command odate(8) ig executed.
3) command, vlogs event ien check for essage. been completed xx:last
ve workaround. as follows. -1: FRU: /MBU -4: FRU: -4S: FRU: r FRU: FU
5) o rlog ien issa bec xx: -4: -4Sr FU FU

Table 3-3	Problems	resolved	in XCP	2090	(continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131112- 011	x	x	x	If the physical partition (PPAR) is powered on and then the ioxadm(8) command is executed before the power-on processing is complete, the error log "SCF process down detected" is registered, and the ioxadm(8) command may fail.	Do not execute the ioxadm(8) command until the PPAR power-on processing is complete. You can check the progress of the PPAR power-on processing by executing the showpparstatu s(8) command. If the "Running" message appears as a result of executing the showpparstatus (8) command, it indicates that the PPAR power-on processing has been completed. Once the PPAR power-on processing has been completed, execute the ioxadm(8) command again.

 Table 3-3
 Problems resolved in XCP 2090 (continued)

Table 3-3	Problems resol	ved in XCP	2090 (continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131112- x 012	x	x		Suppose that the error log "FAN speed too high" is registered because of an excessive fan rotation count. Subsequently, if an event that changes the fan rotation speed occurs, the fan rotation speed may not be switched to the correct value and instead may be switched to level 5 (full speed). If an event that changes the fan rotation speed occurs, the following event logs are registered. However, the displayed fan rotation speed will not be correct. The actual fan rotation speed level is 5, which is full speed.	There is no effective workaround. [How to restore] Replace the fan of the detected excessive rotation speed error.
				 Low temperature was detected at air inlet. FANs are changed to speed (level-1) mode Low temperature was detected at air inlet. FANs are changed to speed (level-2) mode Middle temperature was detected at air inlet. FANs are changed to speed (level-3) mode High temperature was detected at air inlet. FANs are changed to speed (level-4) mode Air outlet temperature recovered from warning state 	
RTIF2-131112- 014	x	x	x	If the following mail server is being used and REMCS registration or REMCS environment setting is performed, a communication timeout with the mail server is detected, causing processing to fail. - Windows ExchangeServer - E-PORT - qmail	After changing the mail server to be used to sendmail or postfix, perform REMCS registration or REMCS environment setting. If it is difficult to change the mail server, update its firmware to XCP 2090 or later.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131112- 015			x	If the initbb(8) or replacefru(8) command is executed, an event log stating "Change Master Failed" may be registered.	There is no effective workaround. Ignore the event log.
RTIF2-131126- 001	x	x	x	Suppose that a system satisfying one of the conditions described in [Conditions] sets the power supply interlocking function. If Oracle Solaris is running and one of the events mentioned in [Event] occurs, an external I/O device may be erroneously powered off. [Conditions] - A single SPARC M10 system is registered in the power supply interlocking group. - Multiple SPARC M10 systems are registered in the power supply interlocking group, and the physical partitions other than those of the SPARC M10 system that resets the XSCF are powered off. [Event] - Firmware update was executed from the flashupdate (8) command and XSCF Web, and the XSCF was reset. - The XSCF was reset.	 Apply either of the following countermeasures: Before firmware update or XSCF reactivation, execute the setremotepwrngmt -c disable command to disable the power supply interlocking function. Subsequently, update the firmware or reactivate the XSCF. After the XSCF has been activated, execute the setremotepwrngmt -c enable command to enable the power supply interlocking function. Disable the power supply interlocking function. Disable the power supply interlocking function with the setremotepwrngmt -c disable command and then manually power on the external I/O device.

 Table 3-3
 Problems resolved in XCP 2090 (continued)

Table 3-3	Problems resolved in XCP 2090 (continued)						
	SPARC	SPARC	SPARC				

RTI No.	M10-1	M10-4	M10-4S	Description	Workaround
RTIF2-131126- 002			x	If one of BB#0/BB#01/ XBBOX#80/XBBOX#81 is installed or replaced, the synchronous processing of the CPU core activation key in the master/standby XSCF will fail. Subsequently, if the master and standby are switched, the CPU core activation key may be lost. This generates the following phenomena. [If the PPAR power is on] The PPAR power is on] The PPAR power is off] PPAR power-on fails because there is an insufficient number of CPU core activations.	After installation/replacement, the synchronous processing of the CPU core activation keys is performed when the following is executed. [If the master/standby XSCF is not switched] Execute the rebootxscf -a or addcodactivation(8) command from the master XSCF that requested installation/ replacement. [If the master/standby XSCF has been switched] Execute the switchscf(8) command to return the master XSCF to the pre-installation/ replacement state. After that, execute the rebootxscf -a or addcodactivation(8) command. Note - Do not perform the following operations before restoring the master XSCF to its original state by executing the switchscf(8) command. If these operations are performed, it may be necessary to register the CPU core activation(8) - rebootxscf -a addcodactivation(8) - deletecodactivation(8) - Input power off/on

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131126- 004	x	х	x	When the firmware update of the PCI expansion unit and link card is complete, the firmware version of the PCI expansion unit is erroneously displayed. Specifically, "PCIBOX version" of the event log displays the pre-update version, while "last version" displays the post-update version.	There is no effective workaround. Replace the version number. Moreover, update the XCP firmware to XCP 2090 or later.
				Version displayed after an update from 1120 to 1130 Incorrect: LINKCARD=1, bank=1, PCIBOX version=1120: last version=1130 Correct: LINKCARD=1, bank=1, PCIBOX version=1130: last version=1120	

 Table 3-3
 Problems resolved in XCP 2090 (continued)

Table 3-3	Problems resolved in XCI	2090 (continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131129- 001	x	x	x	 If there is a mounted memory, the last eight digits of whose "Code" start with "00", as displayed by the showhardconf (8) command in , execution of any of the following actions may result in incorrect display, showing a value of 0 for both the "Code" and the "Size" of that memory, as shown . Execute the restoredefaults factory command Execute the initbb(8) command Change the mounting point of memory 	There is no effective workaround. Contact the maintenance staff if this symptom occurs.
				XSCF>showhardconf : MEM#10B Status:Normal; + Code: ce8001M393B2G70QH0-YK0 0000-00511571; + Type:07; Size:16 GB;	
				XSCF>showhardconf : * MEM#10B Status:Deconfigured; + Code:000000 0000-00000000; + Type: ; Size:0 GB;	
RTIF2-131213- 006		X	х	The "LDC Protocol info from PPAR (PPAR ID X : Domain Service Data Send Failed)" event log is registered on a running logical domain and shutdown of that logical domain may not be properly executed.	There is no effective workaround. Either reboot the control domain or execute the "rebootxscf -a" command to reboot XSCF.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 017	x	x	х	Any of the following may occur while XSCF is running.	There is no effective workaround.
				Symptom1: Process down occurs and XSCF resets. Symptom2: Response of commands which deals with acquiring MIB information (get command, etc.) becomes slow. Symptom3: Execution of commands like showhardconf (8) takes time. Moreover, when the showhardconf(8) command is executed, the following message may be output and the command is terminated abnormally. "Cannot communicate with the other XSCF. Check the other XSCF' stat"	[How to restore] For symptoms 1 and 2: The system can be recovered by resetting XSCF. The system can be used after that. For symptom 3: Reset XSCF with the rebootxscf(8) command.
RTIF2-131213- 018	x	x	x	If XSCF has disabled the setup of NTP client, the time difference between XSCF and the hypervisor of each physical partition (PPAR) is mistakenly updated and the time of the logical domain may be misaligned after PPAR is rebooted.	 Enable the NTP client setup of XSCF by executing the "setntp -s client -c enable" command and synchronize XSCF with the upper level NTP server. Otherwise, execute the following. 1. Execute the showdateoffset(8) command before powering on or rebooting the PPAR and confirm the time difference between XSCF and the hypervisor. 2. If the time difference is too large, execute the resetdateoffset(8) command with the PPAR at stopped state, in order to reset the time difference. 3. After powering on the PPAR, reset the time of Solaris OS.

 Table 3-3
 Problems resolved in XCP 2090 (continued)

Table 3-3	Problems resolved in XCP 209	90 (continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131213- 020	x	x	x	Due to the retry functionality of XSCF, if any abnormality occurs	There is no effective workaround.
				in the recoverable backup memory inside the PSU backplane unit (PSUBP) for more than three times, XSCF regards it wrongly as a fixed error and the starting of XSCF may be deterred. In such a case, the "REBOOT: COUNTER ERROR" message is displayed.	[How to restore] Re-execute power off and on.
RTIF2-131216- 001	х	х	х	The "XCP update is started." message is mistakenly displayed when the "flashupate -c check" command is executed.	There is no effective workaround. Please ignore this message.

Problems resolved in XCP 2080

The following table lists the problems resolved in XCP 2080.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121219- 011			x	The power of a physical partition (PPAR) may not be disconnected if deleteboard -c unassign is executed to the system board that belongs to the PPAR while the power of the PPAR is being disconnected using the poweroff(8) command.	After executing the poweroff(8) command, confirm that the status field of the relevant PPAR shows Powered Off by using the showpcl(8) command. Then, execute the deleteboard (8) command.
RTIF2-130305- 018			x	An internal error may occur when performing "Diagnostic tests" when selecting "BB" with the replacefru(8) command or executing the testsb(8) command. If you check the error log at this time, you can see that "no PSB available in PPAR" was registered in "PPAR#30" when the internal error occurred.	An error occurred in the applicable SPARC M10-4S and the system board (PSB) is in an unavailable state. Check the error log and replace the SPARC M10-4S.

Table 3-4 Problems resolved in XCP 2080

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130305- 019	x	x	x	Diagnosis continues even when an error occurred on the testsb(8) command and timeout occurs after a two-hour wait.	Execute the showboards(8) command in another session while executing the testsb(8) command to check the status of PSB to be diagnosed. An operation will fail if "Test" is set to other than "Testing" and "Pwr" is set to "n". In this case, cancel the testsb(8) command by pressing [Ctrl] + [C].
RTIF2-130307- 001			x	If any SPARC M10-4S that is specified with the diagxbu(8) command is not implemented, the message "PSB#xx-0 is not installed." showing the PSB No. that represents the unimplemented SPARC M10-4S should appear. However, the PSB No. of the SPARC M10-4S which actually has been implemented may be erroneously output.	There is no effective workaround. Execute the showhardconf(8) command to check the status of the SPARC M10-4S to which the corresponding PSB No. is assigned. The SPARC M10-4S which has not been implemented is not displayed with the showhardconf(8) command. When the corresponding SPARC M10-4S is displayed, read the PSB No. in the message "PSB#xx-0 is not installed." as that of the unimplemented SPARC M10-4S that was specified when this command was executed.
RTIF2-131023- 001	x	x	x	 If the XSCF is reset by the rebootxscf(8) or switchscf(8) command executed while the logical domain is either starting or stopped, the following problems may occur. If the showdomainstatus(8) command is executed, the logical domain state is not displayed properly. If the showlogs event command is executed, the logical domain state is not displayed properly. If the showlogs event command is executed, the logical domain state is not displayed. An SNMP Trap for notification of the state of the logical domain is not sent. 	There is no effective workaround. [How to restore] To display the state of the logical domain properly, update it such as by reactivating the logical domain.

 Table 3-4
 Problems resolved in XCP 2080 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131023- 004	x	x	x	Even when an I/O failure is detected in the logical domain, the XSCF may not be notified of an error. For this reason, the I/O failure information in Fault Report to be displayed from the execution of the fmdump(1M) command is not displayed, even if the showlogs error command is executed. Moreover, even if a CPU or memory error is detected in the XSCF, no notification may be sent to the logical domain. For this reason, Fault Report does not display the CPU or memory failure information to be displayed from the execution of the showlogs error command, even if the fmdump(1M) command is executed.	There is no effective workaround. If an I/O failure is detected in the logical domain, locate the failed portion from the display in Fault Report by executing the fmdump(1M) command, and perform maintenance on the failed part. If a CPU or memory failure is detected in the XSCF, perform maintenance according to the FRU displayed by executing the showlogs error command.
RTIF2-131108- 002	х	х	х	The warning message "WARNING: invalid vector intr: number 0x10001, pil 0x11000" may be output to /var/adm/ messages.	Ignore this message.
RTIF2-131112- 009	x	x	х	If the physical partition (PPAR) is powered on, the event log of "LDC Protocol info from PPAR (PPAR ID 0:Domain Service Data Send Failed)" is output. Moreover, after Oracle Solaris activation, "ldoms/ldmd:default failed: transitioned to maintenance" is output to the OS console. This may cause Oracle VM Server for SPARC to enter maintenance mode.	There is no effective workaround. [How to restore] Execute the rebootxscf -a command to reset all the XSCFs, and then reactivate the control domain. If restoration fails, execute the poweroff(8) and poweron(8) commands on the XSCF to power off and then power on the physical partitions (PPARs).

Table 3-4	Problems resolv	ed in XCP	2080	(continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131126- 006	x	x	x	 Suppose that the input power is turned off and on, or that the XSCF is reset. If an operation related to CPU core activation is performed for the first time using XSCF Web rather than the XSCF shell, it may fail. The procedure that fails is any of the following. Perform any of the following on XSCF Web. From the [Settings] - [CoD Activation] menu, add the CPU core activation key. From the [Maintenance] - [Configuration Management] menu, save the XSCF setting information. From the [Maintenance] - [Configuration Management] menu, save/restore the CPU core activation key. Execute the deletecodactivation (8) or setcod(8) command on the XSCF shell. Alternatively, delete the CPU core activation key on XSCF Web. Alternatively, change the assignment of the CPU core activation on XSCF Web. 	To perform an operation related to the CPU core activation for the first time after the input power is turned off and on or after the XSCF is reset, execute it on the XSCF shell. [How to restore] Execute the rebootxscf(8) command to reset the XSCF. Then, execute the deletecodactivation(8) or setcod(8) command on the XSCF shell.
				 Alternatively, 1. Perform any of the following on XSCF Web. From the [Settings] - [CoD Activation] menu, delete the CPU core activation key. From the [Settings] - [CoD Reservation] menu, release the assignment of the CPU core activation. 2. Log in to the XSCF shell or XSCF Web with another user account. 3. Execute the deletecodactivation (8) or setcod(8) command on the XSCF shell. Alternatively, delete the CPU core activation key on XSCF Web. Alternatively, change the assignment of the CPU core activation key on XSCF Web. 	

Table 3-4Problems resolved in XCP 2080 (continued)

Problems resolved in XCP 2070

The following table lists the problems resolved in XCP 2070.

Table 3-5	Problems	resolved	in	XCP	2070
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130228- 001	x	x	x	If a physical partition (PPAR) is powered on again after the PPAR is forcefully powered off with the poweroff -f command while starting up Oracle Solaris, "Unable to connect to Domain Service providers" is output to the OS console and Oracle Solaris may not be started.	Power on the PPAR again with the poweron(8) command after disconnecting the power of the PPAR with the poweroff(8) command. If Oracle Solaris does not start up even after that, reset the XSCF after disconnecting the power of the PPAR and then power on the PPAR again.
RTIF2-130516- 001	x	x	x	In a system configuration for which power supply interlocking with ETERNUS is set, ETERNUS is not powered on even if the power is turned on from the power switch located on the operation panel of the SRARC M10 system.	 Turn on the power in one of the following ways: XSCF command, poweron(8) command Menu on the XSCF Webpage Automatic power turning on with schedule settings
RTIF2-130709- 001			x	In the state where the physical partition (PPAR) is powered on, when switching of the master XSCF occurs, it may take time before the standby XSCF switches to the master XSCF. As a result, the following error may occur. Master switch synchronization timeout	 There is no effective workaround. [How to restore] If the error occurs during execution of the flashupdate (8) command when the power to the PPAR is on: Turn off the power to the PPAR, and then execute the flashupdate(8) command again.
					 If the error occurs during execution of the switchscf(8) command when the power to the PPAR is on, or if the error occurs due to an XSCF failure (process down etc.) when the power to the PPAR is on: Perform recovery of the SPARC M10-4S chassis for which the "XSCF hang-up is detected" error log has been registered by using either of the following methods. Execute the replacefru(8)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
					command to replace the CPU memory unit (lower) (CMUL) or XSCF unit (XSCFU). - Power off and on the CPU memory unit (lower) (CMUL) or the XSCF unit (XSCFU).
RTIF2-130711- 001			x	When you perform maintenance of the SPARC M10-4S by executing the replacefru(8) or addfru(8) command, the "FMEM serious error" error log may be registered and the replacefru(8) or addfru(8) command may fail. Also, when you turn on the power to the physical partition (PPAR) during the execution of the flashupdate(8) command, similarly, the "FMEM serious error" error log may be registered and the flashupdate (8) command may fail.	For details, see "Response to "FMEM serious error" of SPARC M10-4S (RTIF2-130711-001)."
RTIF2-130716- 001	x	x	x	When you update the PCI expansion unit firmware by executing the ioxadm(8) command, a "LINKCARD I2C error" error may occur.	 There is no effective workaround. However, if both of the conditions below can be confirmed, the update of the PCI expansion unit firmware has been completed normally. In this case, ignore the "LINKCARD I2C error" error message, and continue the operation. The update of the PCI expansion unit firmware by using the ioxadm(8) command has been completed normally. Executing the ioxadm -v list command displays the version number of the PCI expansion unit firmware that

Table 3-5	Problems	resolved	in XCP	2070	(continue	d)
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has been specified for the update.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130802- 001	x	x	х	When you specify USB memory for the getflashimage(8) command, the following message may be output and the execution of the command may fail. Error: Unable to mount USB device.	After disconnecting and then connecting the USB memory, execute the getflashimage(8) command again.
RTIF2-130802- 002	x	x	x	 When Oracle Solaris is operating, if you change the SNMP setting with the setsnmp(8) command, the following phenomena may occur. A part of the data such as the XCP version number is not output as a result of the prtpicl -v and prtdiag -v commands. For /var/adm/messages of Oracle Solaris, the following warning message is output. PICL snmpplugin: cannot fetch object value 	 There is no effective workaround. If 1. occurs: Perform recovery by using the following procedure. 1) End the prtdiag command with [Ctrl] + [C]. 2) Wait for about 30 minutes, and let an SNMP timeout occur in the XSCF. 3) On the logical domain, execute the svcadm command to restart the picl service. If 2. occurs: The system can be operated continuously because this is a temporary warning message.

 Table 3-5
 Problems resolved in XCP 2070 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description		Workaround
RTIF2-130806- 001	х	x	x	When any of the for FRUs of any of the replaced, the XSCF initialized to 2001/ accordance to the s Due to this reason, XSCF is set as an N	ollowing models is F clock is /1/1 (in specification). , when the NTP client and	There is no effective workaround. Execute the following tasks after replacing the FRUs, as described in [Description]. 1. Before powering on the physical partition, check the
				 a physical partition on after replacing FRUs, the clock of domain may get of significant amount [SPARC M10-1] Motherboard U PSU Backplane 	n is powered any of these the control ffset to a t. Unit (MBU) Punit (PSUBP)	 values of the "Domain Date Offset" column using the showdateoffset(8) command. If the values of the "Domain Date Offset" is not high (more than 10 years), continue with normal operation of the distance of
				 [SPARC M10-4] CPU Memory I (CMUL) [SPARC M10-4S] CPU Memory I (CMUL) 	Unit (Lower) Unit (Lower)	 On the other hand, if the values are significantly high (more than 10 years), execute procedure 2 and onwards
				 Crossbar backp (XBBPLI) 	olane unit	2. Execute the resetdateoffset(8)
				 XSCF Unit (XSC This problem can be from the base offered 	CFU) be confirmed	difference of clock time between the XSCF and the
				(more than 10 year	rs) of the	XSCF> resetdateoffset -a
				"Domain Date Offs	set" column in	Clear the offset of all PPARs?
				t(8) command, wh	hich shows the	XSCF>
				time difference of	the XSCF and	3. Power on all physical
				the control domain	 .	partitions using the "poweron
				XSCF> showdateo	ffset -a	4. Execute the showdateoffset(8)
				PPAR-ID	Domain Date	command to confirm that the
				Offset	21022	difference of clock time
				00 79	131983 sec	control domain had been
				02 79	931983 sec	synchronized by checking that
				03 79	931983 sec	the values of the "Domain
				:		Date Offset" column for all of
				15 79)31983 sec	the physical partitions has changed to 0.
						5. If the XSCF and the control domain are to be operated in

 Table 3-5
 Problems resolved in XCP 2070 (continued)

5. If the XSCF and the control domain are to be operated in different time zones, use the date(1M) command to set the date of the control domain.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130826- 001			x	If you log in to the XSCF Web from the master XSCF when the standby XSCF is in either the maintenance or input power off state, a dialog starting with "Cannot communicate with BB#xxx:" that indicates a non-breaking communication error is output.	There is no effective workaround. The message in the dialog indicates a display defect, so you can operate the system as is. Ignore the dialog related to this communication error.
RTIF2-130902- 001			x	If the firmware is updated while a logical domain is operating in a system consisting of multiple SPARC M10-4S units, the master XSCF may not switch to a standby XSCF, causing the firmware update to fail.	There is no effective workaround. Recover the system by following the procedure described below. 1. Log in to either standby XSCF, and then execute the following command. XSCF> rebootxscf -s 2. After 10 seconds, log in to the other standby XSCF, and then execute the following command. XSCF> rebootxscf -a 3. Wait for 20 minutes, log in to the master XSCF, and then execute the flahsupdate(8) command again.
RTIF2-130903- 002			х	In a system consisting of multiple SPARC M10-4S units, it may take longer than usual from the time a physical partition (PPAR) is turned on until the Power-On Self test (POST) starts. For example, for a 2BB configuration, POST usually starts after about 10 minutes, but it may take 20 minutes or longer.	There is no effective workaround. If this defect occurs, execute the rebootxscf -a command to reset all the XSCFs and restore the system.
RTIF2-130903- 006			x	If multiple physical partitions (PPARs) exist in a system consisting of multiple SPARC M10-4S units, and some SPARC M10-4S units are turned off and then on again, an "SRAM Serious Error" may occur, requiring the replacement of the CPU memory unit lower (CMUL). When the state is displayed with the showpparstatus(8) command or	There is no effective workaround. While a PPAR is operating, do not turn off the SPARC M10-4S. Use the poweroff(8) command, for example, to stop a PPAR before turning it off.

 Table 3-5
 Problems resolved in XCP 2070 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
				the showdomainstatus(8) command, the PPAR state may not be displayed correctly.	
RTIF2-130903- 007	x	х	x	If the setcod(8) command is executed repeatedly on the physical partition (PPAR) in the PowerOn state, the resources available within the process may be exhausted, and codd may cause a process down.	You can avoid this by executing setcod(8) when PPAR is in the PowerOff state. [How to restore] Restart codd.
RTIF2-130903- 008	x	x	x	If any device is specified with the select command of OpenBoot PROM first but then the unselect-dev command is not executed, and subsequently the boot command is used to start Oracle Solaris from a network device, the following defect will occur. On the console of the logical domain, the "seek failed" and "Can't mount root" messages are displayed, and the starting of Oracle Solaris fails. Then, the "I/O device error detected" message is registered in the error log, and the logical domain is reset. After the logical domain is reset, the device specified with the select command is degraded. After reset, the logical domain enters either of the following states depending on the setting of OpenBoot PROM environment variable "auto-boot?". If auto-boot? is true Oracle Solaris is started from the device that is set as the boot-device. If, however, the device specified with the select command, above, is the same as the device is degraded, so that Oracle Solaris will fail to start, and the ok prompt appears. If auto-boot? is false	After specifying a device and executing the select command, be sure to execute the unselect-dev command before executing the boot command. [Example] {0} ok select /pci@8000/pci@4/ pci@0/pci@1/network@0 {0} ok unselect-dev {0} ok boot net [How to restore] • If, after the defect occurs, the logical domain is in the ok prompt state Execute the following command to reset the logical domain. {0} ok reset-all • If, after the defect occurs, Oracle Solaris has been started in the logical domain Use the shutdown command to first enter the ok prompt state and then set environment variable auto-boot? to false. Then, use the reset-all command to restart OpenBoot PROM. [Example] # shutdown -y -g0 -i0 {0} ok setenv auto-boot? false {0} ok reset-all After recovery, any device that was degraded as a result of this defect will be recognized

 Table 3-5
 Problems resolved in XCP 2070 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
				The ok prompt appears, in the same way as in normal operation.	normally. Ignore the message registered in the error log when the defect occurred.
RTIF2-130930- 001	x	x	x	If, in an environment for which a time zone is set for the XSCF and summer time is introduced, a physical partition (PPAR) is restarted or a PPAR is turned off and then on again, the start time of the logical domain may be advanced or delayed for 3600 seconds or longer. This can be confirmed by executing the showdateoffset(8) command. In the following execution example, the time difference between PPAR and XSCF is +/-3600 seconds or greater, indicating that this defect has occurred. XSCF> showdateoffset -a PPAR-ID Domain Date Offset 00 -7205 sec 01 -7205 sec 03 -7205 sec 04 -7205 sec	There is no effective workaround. For every logical domain in the system, make the settings so that they can be synchronized with the NTP server in time, and if the start time of a logical domain shifts, correct the time on the NTP.
				05 -7205 sec 06 -7205 sec 07 -7205 sec 08 -7205 sec 09 -7205 sec 10 -7205 sec 11 -7205 sec 12 -7205 sec 13 -7205 sec 14 -7205 sec 15 -7205 sec	
RTIF2-131004- 001	x			If firmware update is executed when the physical partition (PPAR) is powered on, the "CPU-MBC interface fatal error" error which is related to the motherboard unit (MBU), is mistakenly detected and may be registered in the error log. This mistaken detection may lead to stopping of the logical domains.	Execute firmware update when the physical partition (PPAR) is powered off.

Table 3-5	Problems resolved in	n XCP 2070	(continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131004- 002			x	If, in a system configured with 3 BB or greater, the chassis of the master XSCF and the standby XSCF are turned off and then on again, the system enters a state in which there is no master XSCF. If the master XSCF is stopped while the XSCF DUAL control cable is either faulty or not connected, master/standby XSCF switching is suppressed, so that the standby XSCF is not switched to the master XSCF.	There is no effective workaround. Update to firmware version XCP 2070 or later.
RTIF2-131004- 003			x	If master/standby XSCF switching occurs while the XSCF DUAL control cable is either faulty or not connected, switching may be performed even though communication between the master and standby is not guaranteed. If an XSCF is configured and master/standby XSCF switching is performed while the XSCF DUAL control cable is either faulty or not connected, the information set in the XSCF will be erased.	There is no effective workaround. Perform master/standby XSCF switching while the XSCF DUAL control cable is connected normally. Whether the XSCF DUAL control cable is connected normally can be confirmed with the following procedure. 1. Execute the showsscp -a command. 2. Check that, in the output results obtained in Step 1., "Cannot communicate." is not displayed for the Address for which the SSCP link network ID (network_id) is 2 or 4. [Example] If there is no crossbar box, confirm the Address with an SSCP link network ID (network_id) of 2. XSCF> showsscp -a -N 2 : : Location Address

 Table 3-5
 Problems resolved in XCP 2070 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131108- 001	x	x	x	If the "SCF Diagnosis initialize RTC" error occurs, or if the motherboard unit (MBU) is replaced with the SPARC M10-1 and the CPU memory unit (lower) (CMUL) is replaced with the SPARC M10-4/M10-4S, the following phenomena may occur. [Phenomenon 1] The XSCF time may return to January 1, 2001. [Phenomenon 2] The time difference between the XSCF and all physical partitions (PPARs) may become a value of 400 million seconds or more. You can check this phenomenon by executing the showdateoffset (8) command, since the time difference between the XSCF and all PPARs is displayed as a value of "40000000 sec" or more. XSCF> showdateoffset -a PPAR-ID Domain Date Offset 00 400000100 sec : : : 15 400000100 sec [Phenomenon 3] If you reset the PPAR or power off and on the PPAR, the Oracle Solaris time may return to January 1, 2001.	There is no effective workaround. Update to firmware version XCP 2070 or later. [How to restore] For details, see "Restoration after the "SCF Diagnosis initialize RTC" error (RTIF2- 131108-001)."
RTIF2-131112- 010	x	x	х	If you execute the XSCF commands in the following order, the setting information for the setntp(8) or settelnet(8) command is not applied and may return to the original state. 1. Execute any of the sethostname(8), setnameserver(8), setnetwork (8), setroute(8), or setsscp(8) command. 2. Execute either the setntp(8) or settelnet(8) command. 3. Execute the applynetwork(8) command.	After executing any of the sethostname(8), setnameserver (8), setnetwork(8), setroute(8), or setsscp(8) command is executed, do not execute the setntp(8) or settelnet(8) command until the apllynetwor k(8) command is executed and the settings are applied.

 Table 3-5
 Problems resolved in XCP 2070 (continued)
RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131112- 016	x	X	X	If you use the deleteuser(8) command to delete a user account for which an SSH user public key is registered, it is deleted but the user public key is not deleted. User public keys will continue to increase in number such that it may not be possible to register one for a new user account. Moreover, if a user account with the same name is registered again, the SSH user public key registered previously is set.	 Before deleting a user account with the deleteuser(8) command, execute setssh -c delpubkey -a -u to delete the SSH user public key registered for the user account. [How to restore] Perform the following procedure. 1. Execute the adduser(8) command to register the deleted user account again. 2. Execute the rebootxscf -a command to reset the XSCF, or turn off and on the input power. 3. Execute setssh -c delpubkey -a -u to delete the SSH user public key. 4. Execute the deleteuser(8) command to delete the user account.
RTIF2-131213- 014	x	x	x	If the time zone of XSCF is changed using the settimezone (8) command, the time zone of Solaris OS on that physical partition, which is booted after the change, gets misaligned to the tune of the time difference before and after changing the time zone of the XSCF. <example> If the time zone before setup was UTC and after setup is JST, the time misalignment of Solaris OS will be 9 hours.</example>	There is no effective workaround. Boot the Solaris OS after executing the resetdateoffset(8) command and set to the right time on the Solaris OS.

 Table 3-5
 Problems resolved in XCP 2070 (continued)

Response to "FMEM serious error" of SPARC M10-4S (RTIF2-130711-001)

Replacing SPARC M10-4S

When replacing the SPARC M10-4S by following the maintenance menu displayed by executing the replacefru(8) command, perform Step 3 and then turn on the input power to the target SPARC M10-4S (BB#x). Then, after waiting for 50 minutes, manually enter "f" in Step 4 to perform the work.

```
Please execute the following steps:
1) Remove (Delete) the BB#x from a system.
2) Turn off the breaker of the BB#x.
3) After the exchanged device is connected with the system, turn on
the breaker of the BB#x.
4) Please select[f:finish] :
```

 Adding SPARC M10-4S
 When adding the SPARC M10-4S by following the maintenance menu displayed by executing the addfru(8) command, perform Step 1 and then turn on the input power to the target SPARC M10-4S (BB#x). Then, after waiting for 50 minutes, manually enter "f" in Step 2 to perform the work.

```
Please execute the following steps:
1) After the added device is connected with the system, please turn on
   the breaker of the BB#x.
2) Please select[f:finish] :
```

Executing the flashupdate(8) command
 Do not power on the physical partition (PPAR) during the execution of the flashupdate(8) command. If you power on the PPAR during the execution of the flashupdate(8) command, power it on again after the completion of the command. Upon the completion of the flashupdate(8) command, execute the showlogs event command to confirm the following message.

XCP update has been completed (XCP version=xxxx:last version=yyyy)

Restoration after the "SCF Diagnosis initialize RTC" error (RTIF2-131108-001)

[How to restore]

- If phenomenon 1 occurs:
 - a. If the Oracle Solaris time has returned to January 1, 2001, execute the setdate(8) command to set the XSCF time again. In this case, the XSCF is reset. After that, power off and on the PPAR.
 - b. If the Oracle Solaris time is other than January 1, 2001, contact a field engineer. In this case, do not execute the resetdateoffset(8) of setdate(8) command on the XSCF.
 - c. If the PPAR power is off, power on the PPAR. After that, check the Oracle Solaris time, and perform the above steps a. or b.
- If phenomenon 2 occurs:
 - a. If the Oracle Solaris time has returned to January 1, 2001, it is necessary to initialize the time difference between the XSCF time and Hypervisor on all of

the PPARs. Stop all the PPARs, and execute the resetdateoffset -a command to clear the time difference.

- b. If the Oracle Solaris time is other than January 1, 2001, contact a field engineer. In this case, do not execute the resetdateoffset(8) of setdate(8) command on the XSCF.
- c. If the PPAR power is off, power on the PPAR. After that, check the Oracle Solaris time, and perform the above steps a. or b.
- If phenomenon 3 occurs: If phenomenon 1 or 2 also occurs, perform its [How to restore] action first. Set the Oracle Solaris time again.

Problems resolved in XCP 2052

The following table lists the problems resolved in XCP 2052.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130827- 001	х	х	x	A timeout or connection failure may be detected for the communication party because XSCF packet reception is delayed, delaying the response, due to a defect in the XSCF-LAN hardware settings.	There is no effective workaround.
RTIF2-130903- 004			х	If XSCF master/standby switchover takes place when either the XSCF BB control cable or the XSCF DUAL control cable is not connected properly, the settings at the master XSCF side may not be properly carried on to the standby XSCF and thus, it may not operate properly.	There is no effective workaround. Please make sure that the XSCF BB control cable and the XSCF DUAL control cable is properly connected. If this symptom occurs, confirm whether each setting by master XSCF had been stored after confirming that the cables are properly connected. Set up XSCF again when the setting has not been saved.

Table 3-6 Problems resolved in XCP 2052

 Table 3-6
 Problems resolved in XCP 2052 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131004- 004			x	If the standby XSCF is restarted while the XSCF BB control cable is either faulty or not connected, it is started as the master XSCF, so that there are two master XSCF units in the system. When there are two master	There is no effective workaround. Do not reset an XSCF when the XSCF BB control cable between the master and standby is either faulty or not connected. [How to restore]
				ASCF units, system operation cannot be guaranteed. This state can be confirmed from the fact that there are two chassis for which the MASTER LED is lit on their rear panels.	If there are two master XSCF units in the system, turn off all the chassis and then turn them on again.

Problems resolved in XCP 2051

The following table lists the problems resolved in XCP 2051.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130717- 001	x	x	х	If an error occurs in the USB-SSD in the XSCF interface unit (XSCFIFU) of the PSU backplane (PSUBP) or crossbar box, the "System backup memory access error" error log may be registered. In this case, a problem such as the inability to execute the poweron(8) command or the inability to collect data with the snapshot(8) command may occur.	There is no effective workaround. When this problem occurs, power off the input power supply and then power it on again (AC OFF/ON).

Table 3-7Problems resolved in XCP 2051

Problems resolved in XCP 2050

The following table lists the problems resolved in XCP 2050.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130219- 002			x	When maintaining SPARC M10-4S with a slave XSCF, if you incorrectly connect the standby XSCF and the slave XSCF with an XSCF connection cable, the maintenance is considered to have finished normally without detecting the error.	After switching between the master XSCF and the standby XSCF by using the switchscf(8) command, execute the testsb(8) command to the target slave XSCF. The incorrect connection with the XSCF connection cable is detected and an error log is issued.
RTIF2-130305- 016			x	Timeout may occur if the XCP firmware version of a SPARC M10-4S or crossbar box is updated using the flashupdate -c sync command.	Execute the flashupdate(8) command by specifying the -f option to reupdate the XCP firmware for all SPARC M10-4S or crossbar boxes.
RTIF2-130319- 002	x	х	x	Before power-off of the physical partition (PPAR) completes in SPARC M10-4S, if you power off and then power on the input power supply of a SPARC M10-4S or a crossbar box again and power on the PPAR again, the PPAR in operation may be powered off if the master XSCF is switched with the switchscf (8) command, firmware update, or failure.	If you power off the PPAR before powering off the input power supply of SPARC M10-4S or crossbar box, check that power-off the target PPAR and SPARC M10-4S is complete, by using the showboards(8) and showlogs power commands. Then, power off the input power supply of SPARC M10-4S or crossbar box.
RTIF2-130319- 003	х	х	x	If the shutdown -i5 command and power-off command compete for power-off of the PPAR when the former is executed in the control domain or the latter is executed from the ok prompt while power-off of the physical partition (PPAR) is performed with the poweroff(8) command, "SCF:PPAR issued power-off request (PPARID X)" may be registered many times.	Ignore the registered event log, because the PPAR has been normally powered off.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130329- 004			x	 In a system with building block configuration, if the following operations are performed during power-on of the physical partition (PPAR), connection to the control domain console may not be possible. 1. XSCF for any of the SPARC M10-4S units constituting PPAR is reset. 2. Switching of the master XSCF and standby XSCF occurs. 3. XSCF of the SPARC M10-4S that was reset in 1. is reset again. 	There is no effective workaround. Reset the master XSCF using the switchscf(8) command.
RTIF2-130329- 006			x	If XSCF of SPARC M10-4S belonging to the physical partition (PPAR) in operation is reset due to a panic or watchdog timeout while the master XSCF and the standby XSCF are restarting simultaneously, connection to the control domain console may not be possible.	There is no effective workaround. Power off the PPAR by using the poweroff -f command, and then power it on again.
RTIF2-130516- 003	x	x	x	If the XSCF load is high, the following warning message may be output, indicating the power supply unit (PSU) as a suspected location. Insufficient FAN rotation speed PSU voltage out of range error PSU output current too high PSU over temperature warning	There is no workaround. This is a warning message, so you can operate it as it is. Ignore the message.

 Table 3-8
 Problems resolved in XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130528- 001	X	x	x	You cannot use the PCI hot plug (PHP) function to add a Quad Gigabit Ethernet card (SE1X7GQ2F) to a PCI Express slot of a PCI expansion unit.	This has been modified with XCP 2050 and SRU11.1.6.4.0. If XCP and SRU are not applied, you must stop the logical domain to which you want to add the PCI card before adding it.
					[Precautions] To resolve this problem when you have saved the configuration information of the logical domain and are operating the system with a configuration other than factory-default, you must reconstruct the logical domain configuration after update of the XCP firmware. For details, see "Reconstructing the logical domain (RTIF2- 130528-001)."
RTIF2-130903- 005	х	x	x	In the XSCF e-mail notification function, the following characters cannot be included in the local part or the domain part of the reply mail address which is sent by the setsmtp(8) command.	Use reply mail addresses which do not include the characters shown by the Description.
				"!" "#" "\$" "%" "&" "" "*" "+" "/" "=" "?" "^" "_" "`" "{" " " "}" "~"	
RTIF2-131023- 005	x	x	х	If [Physical] bar is selected on the XSCF Web menu, PCI (excluding the link card) may appear to be abnormal (1).	There is no effective workaround. Even if PCI (excluding the link card) is indicated as being abnormal (1), ignore it.

 Table 3-8
 Problems resolved in XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTI No. RTIF2-131107-002	sparc M10-1 X	SPARC M10-4 X	SPARC M10-4S X	DescriptionIf the input power to the system is turned on, the XSCF is reset, or the XCP firmware is updated, the "SCF Diagnosis initialize RTC" error is erroneously detected, causing the following phenomena to occur.[Phenomenon 1]The XSCF time may return to January 1, 1970.[Phenomenon 2]The time difference between the XSCF and all physical partitions (PPARs) may become a value of 1.3 billion seconds or more. You can check this phenomenon by executing the showdateoffset(8) command, since the time difference between the XSCF and all the PPARs is displayed as a value of "1300000000 sec" or more.XSCF> showdateoffset -a PPAR-ID Domain Date Offset 00 130000100 secIS 130000100 sec [Phenomeno 3]	Workaround There is no effective workaround. Update to firmware version XCP 2050 or later. [How to restore] For details, see "Restoration after erroneous detection of the "SCF Diagnosis initialize RTC" error (RTIF2-131107-002)."
				off and on the PPAR, the Oracle Solaris time may return to January 1, 1970.	

 Table 3-8
 Problems resolved in XCP 2050 (continued)

Reconstructing the logical domain (RTIF2-130528-001)

To resolve this problem when you have saved the configuration information of the logical domain and are operating the system with a configuration other than factory-default, you must reconstruct the logical domain configuration after update of the XCP firmware through the following procedure:

1. Check the current configuration information of the logical domain stored in XSCF.

This example assumes that the name of the saved logical domain configuration information is config1.

```
XSCF> showdomainconfig -p 0
20xx-yy-zz hh:mm:ss
PPAR-ID :0
Booting config
(Current) :config1
(Next) :config1
_____
      :1
Index
config name :factory-default
domains :1
date created:-
_____
                   _____
Index
       :2
config name :config1
domains :2
date created: '20xx-yy-zz hh:mm:ss'
```

2. Set a dummy variable and then clear it for all logical domains.

Execute the following commands for all logical domains.

```
primary# ldm set-variable fix-php=true ldom
primary# ldm remove-variable fix-php ldom
```

3. Save the changed configuration in XSCF to replace the current configuration information.

In this example, the name of the current configuration information is replaced with config1.

primary# ldm remove-spconfig config1
primary# ldm add-spconfig config1

4. Restart all logical domains.

Restoration after erroneous detection of the "SCF Diagnosis initialize RTC" error (RTIF2-131107-002)

[How to restore]

- If phenomenon 1 occurs:
 - a. If the Oracle Solaris time has returned to January 1, 1970, execute the setdate(8) command to set the XSCF time again. In this case, the XSCF is reset. After that, power off and on the PPAR.
 - b. If the Oracle Solaris time is other than January 1, 1970, contact a field engineer. In this case, do not execute the resetdateoffset(8) of setdate(8) command on the XSCF.
 - c. If the PPAR power is off, power on the PPAR. After that, check the Oracle Solaris time, and perform the above steps a. or b.

- If phenomenon 2 occurs:
 - a. If the Oracle Solaris time has returned to January 1, 1970, it is necessary to initialize the time difference between the XSCF time and Hypervisor on all of the PPARs. Stop all the PPARs, and execute the resetdateoffset -a command to clear the time difference.
 - b. If the Oracle Solaris time is other than January 1, 1970, contact a field engineer. In this case, do not execute the resetdateoffset(8) of setdate(8) command on the XSCF.
 - c. If the PPAR power is off, power on the PPAR. After that, check the Oracle Solaris time, and perform the above steps a. or b.
- If phenomenon 3 occurs:

If phenomenon 1 or 2 also occurs, perform its [How to restore] action first. Set the Oracle Solaris time again.

Problems resolved in versions prior to XCP 2050

The following table lists the problems resolved in versions prior to XCP 2050.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121113- 001	x	x	x	After setting an invalid value for the user name with the setsmtp(8) command, you execute the setemailreport(8) command to send a test mail. Then the reply address shows that the mail has been successfully sent.	There is no effective workaround. Even if it is displayed that the test mail has been successfully sent, it is not sent.
RTIF2-121113- 002	x	x	Х	If you execute the setaudit delete command and use the viewaudit(8) to display the audit log, some audit logs may not be deleted.	There is no effective workaround.
RTIF2-121113- 006	x	x	х	If you display the XSCF Web screen in another window or in another tab without using the XSCF Web menu, contents may not be normally displayed.	For operation to display the XSCF Web screen, use the menu tree.

Table 3-9Problems resolved in versions prior to XCP 2050

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121113- 007	x	x	x	While XSCF is starting, process down, panic or watchdog timeout occurs, which may cause XSCF to be reset.	Confirm that XSCF is successfully started. If it is not started, turn off the power of the physical partition (PPAR), and then disconnect the input power supply to the system and back on again (AC OFF/ON). When recycling the power supply to the system, wait for 30 seconds or more to turn on the input power supply after disconnecting. In case XSCF is not started even if recycling the input power supply to the system, replace the CPU memory unit (CMU).
RTIF2-121113- 009	x	x	x	While XSCF is running, process down, panic or watchdog timeout occurs, which may cause XSCF not to be restarted after XSCF reset.	Confirm that XSCF is successfully started. If it is not started, turn off the power of the physical partition (PPAR), and then disconnect the input power supply to the system and back on again (AC OFF/ON). When recycling the power supply to the system, wait for 30 seconds or more to turn on the input power supply after disconnecting. In case XSCF is not started even if recycling the input power supply to the system, replace the CPU memory unit (CMU).
RTIF2-121113- 011	х	х	x	If you execute the showsnmp(8) command, the following message may appear, which means that the snmp daemon has been terminated. Agent Status: Disabled	Execute the showsnmp(8) command again to confirm that the snmp daemon is restarted. If "Agent Status: Disabled" remains displayed, execute the setsnmp enable command to restart the snmp daemon.
RTIF2-121113- 014	x	х	х	The error message "/etc/redhat- release not found" appears while XSCF is starting.	Ignore this message.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121113- 018	х	x	x	When you replace an FRU with the replacefru(8) command, the message "configuration changed ()" showing the configuration change may be registered more than once in the event log.	Ignore the message that appears second time and later.
RTIF2-121113- 019	x	x	x	When the power supply of the physical partition (PPAR) is disconnected according to the power supply schedule, "-" may be displayed as the cause (Cause) in the power log.	There is no effective workaround.
RTIF2-121113- 021	X	х	x	If time cannot be read accurately due to a failed clock in the XSCF board, an error showing a clock failure may not be recorded in the error log.	There is no effective workaround. If the following message appears when you execute the poweron(8) command, the clock in the XSCF board has failed. Replace the XSCF board. Poweron canceled due to invalid system date and time.
RTIF2-121113- 022	х	х	x	If the operation panel has failed or is not connected, XSCF cannot be started.	Connect the operation panel. If the operation panel has failed, replace it.
RTIF2-121113- 023 RTIF2-121113- 028	x	x	x	If a CPU failure occurs while Hypervisor is running, the physical partition (PPAR) is reset more than once, and restarting of the PPAR may take time.	There is no effective workaround.
RTIF2-121113- 025	х	x	x	When a CPU failure occurs, an error message showing degradation or offline on Oracle Solaris may not be output to Syslog.	Use the showlogs(8) command to check a failure state on XSCF.
RTIF2-121113- 027	х	х	х	If you update the firmware and then upload XCP with XSCF Web without restarting XSCF, uploading of XCP will fail and the XSCF Web session will time out.	If you update the firmware and then continue to upload XCP with XSCF Web, restart XSCF.

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121113- 031	x	x	x	After creating an I/O domain to which the PCI card is assigned with Oracle VM Server for SPARC, turn on the power of the I/O domain. If you then stop it in ok prompt, the configuration information of the PCI card may not be displayed with the showhardconf(8) command of XSCF.	Start Oracle Solaris of the logical domain to which the PCI card is assigned with Oracle VM Server for SPARC.
RTIF2-121129- 001	x	x	x	During operation of the XSCF firmware, a "system backup memory access error", which is an error in the PSU backplane (PSUBP), may be erroneously detected and registered in the error log. If this erroneous detection occurs during the start process of the physical partition (PPAR), the start of the PPAR may fail. Also, if it occurs during the collection of log information, the log information collection fails. In addition, a failure mark may be displayed on the PSUBP when the error is detected. If the failure mark is displayed on the PSUBP, the resources necessary for starting the PPAR are insufficient. Therefore, when start of the PPAR failed is registered in the power log. You can display the power log with the showlogs power command.	If you find a log described in "Description," execute the showstatus(8) or showhardconf (8) command to check whether the failure mark is displayed on the PSUBP. [When the failure mark is not displayed on the PSUBP] No problem has occurred in the hardware. So, ignore the error log and continue the operation. [When the failure mark is displayed on the PSUBP] Clear the failure mark by using the following procedure. 1. Switch the mode switch on the operation panel to the Service mode position. 2. Turn the power to the target SPARC M10 system chassis off and then on again, and then restart the XSCF. For the M10-4S, turn the power to every SPARC M10-4S chassis off and then on again. 3. After the XSCF has been restarted, return the mode switch on the operation panel to its original position.
					If the same error recurs even

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

If the same error recurs even after restarting the XSCF, there is a possibility that the error has not been erroneously detected but that a PSUBP hardware failure has occurred. Ask your Fujitsu field engineer (service provider) to replace the PSUBP.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121129- 002	x	x	x	When you replace the CPU memory unit (CMU) or motherboard unit (MBU), the XSCF user account information may be deleted. To recover the XSCF user account information, you need to use the restoreconfig(8) command to restore the information saved by the dumpconfig(8) command.	After you have conducted the replacement, use the restoreconfig(8) command to restore the information saved by the dumpconfig(8) command, or set the XSCF user account information again.
RTIF2-121129- 004	x	x	х	The restoredefaults(8) cannot initialize the following information. The setting information remains as it is. Timezone for XSCF Server certificate for HTTPS	There is no effective workaround. Reset by the settimezone(8), sethttps(8), and setssh(8) commands.
RTIF2-121130- 001	X	X	х	When you enable and disable the power supply interlocking of RCIL, and then enable it again, the power supply interlocking of ETERNUS DX80/DX90/DX410/DX440/ DX8100/DX8700 S2 may not work.	When you enable and disable the power supply interlocking of RCIL, restart XSCF.
RTIF2-121204- 001	х	х	х	The dynamic resource management software (ServerView Resource Orchestrator) sometimes fails to register a server to be monitored.	There is no effective workaround. Register the server to be monitored again by the dynamic resource management software.
RTIF2-121204- 002	х	х	x	If a node of PRIMECLUSTER stops, node switching does not occur automatically.	There is no effective workaround. Switch nodes manually in PRIMECLUSTER.
RTIF2-121204- 003	x	x	х	When you set or change environment variables of OpenBoot PROM by setenv or nvramrc of OpenBoot PROM, or by the eeprom(1M) or ldm set-var commands of Oracle Solaris, the setting or changes may not be retained after recycling the power supply to the system.	After you update an environment variable of OpenBoot PROM, execute the ldm add-config command to save the domain configuration information to XSCF.

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121204- x 004	x	x	x	When you enable the auto boot function of the guest domain by the setpparmode(8) command of XSCF and then start the control domain and the guest domain simultaneously, you may encounter the situation where the following error message is recorded and Oracle Solaris	Use the XSCF setpparmode(8) to disable the auto boot function of the guest domain, and then start Oracle Solaris of the control domain. Then use the ldm start command of Oracle VM Server for SPARC to start the guest domain.
			cannot be started in the guest domain. Code: 20000000- 00ffff0000ff0000ff- 0300000200000000000000 Status: Notice Occurred: Nov 16 16:55:25.518 JST 2012 FRU: /UNSPECIFIED Msg: Boot process failed	[How to restore] Use the ldm stop command of Oracle VM Server for SPARC to stop the guest domain, and then use the ldm start command to start the guest domain.	
RTIF2-121206- 001	х	x	х	When starting the domain, the following error message may appear. Msg: PCI Express link not active	Ignore this message if the showhardconf(8) command recognizes the PCI Express (PCIe) card.
RTIF2-121219- 002			х	Some chassis may not be recognized if all power cables are not connected within four minutes when connecting the power cables of the system that is composed of multiple SPARC M10-4S chassis.	Make sure not to exceed four minutes to finish connecting all the power cables when the system is composed of multiple SPARC M10-4S chassis. Remove and connect the power cables of all the chassis again when there is a SPARC M10-4S chassis that is not recognized.
RTIF2-121219- 004	X	x	х	While powering on/off the power supply interlocking group, the showremotepwrmgmt(8) command may be abnormally terminated with the following message. Controller response timeout.	Execute the showremotepwrmgmt(8) command again.
RTIF2-121219- 005	х	х	х	When a component with high temperature or low temperature at an air inlet is registered, the information on the second faulty component (the second suspect component) displayed in the FRU may not be correct.	Ignore the information on the displayed second faulty component (the second suspect component).

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121219- 006	х	х	x	Replacement of the power supply unit (PSU) using the replacefru(8) command may fail with "Warning:005".	Execute the replacefru(8) command again and replace the PSU.
RTIF2-121219- 009	x	x	x	If an error log indicating a fan failure, "Power-on failure" or "Power-off failure", is registered, other than the correct component may be displayed as the faulty FRU.	 If the failure is "Power-on failure" or "Power-off failure", and the faulty component is a fan, replace the following component. For the SPARC M10-1 Motherboard unit (MBU) For the SPARC M10-4/M10-4S PSU backplane
RTIF2-121219- 010			х	Error log "XSCF hang-up is detected" may be registered when the switchscf(8) command is executed.	Ignore this error log.

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121219- 012			x	When a SPARC M10-4S chassis is replaced using the replacefru (8) command, replacement of the SPARC M10-4S chassis may fail with "internal error" displayed.	Use the following procedure to replace a SPARC M10-4S chassis by using the replacefru (8) command. 1. Enter "r" to replace the chassis in response to the message "Do you want to continue?[r: replace c:cancel]" which is displayed after the replacefru (8) command is executed. 2. Replace the SPARC M10-4S chassis and wait for about 15 minutes after the input power of the chassis is turned on. 3. Execute the showlogs event command to display an event log. 4. Continue the replacement using either of the following methods. • If the event log displays "XSCF update is started" Wait until the "XCP update has been completed" log is registered. When "XCP update has been completed" is displayed, enter "f" in response to "Please select[f:finish]" and then continue the replacement by following the instructions displayed on the screen. • If the event log does not display "XSCF update is started" Enter "f" in response to "Please select[f:finish]" and then continue the replacement according to the instructions on the screen.
RTIF2-121219- 013			x	When a SPARC M10-4S chassis finds an error indicating that the XSCF cannot be started, not only an error log for the SPARC M10-4S chassis where the error occurred but also an error log regarding a cable connection error in a chassis that does not exist may be registered.	Ignore the error log regarding a cable connection error registered for a SPARC M10-4S chassis that does not exist.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121219- 014			x	When cold replacement is performed (replacement performed while the input power is off) due to an error with BB#00, the setting information for the XSCF is deleted.	To replace a SPARC M10-4S chassis due to an error in BB#00, use the replacefru(8) command.
RTIF2-121219- 015			х	When a SPARC M10-4S chassis is removed with the initbb(8) command, the information on the removed chassis remains without being completely deleted.	To remove a SPARC M10-4S chassis, perform the cold removal (the chassis is removed by turning off the input power).
RTIF2-121219- 016	х	x	x	An "internal error" may occur if the prtfru(8) command is executed while powering on/off or resetting the physical partition (PPAR).	Wait for the power on/off or reset of the PPAR to complete and then execute the prtfru(8) command again.
RTIF2-121219- 017			х	If a SPARC M10-4S chassis is powered off after an error log is registered because a memory error occurred in BB#00 or BB#01, the same error log may be registered again.	There is no effective workaround.
RTIF2-121219- 018			x	In a system in which two or more SPARC M10-4S chassis units constitute multiple physical partitions (PPARs), if you power on the PPAR after switching the master XSCF as a result of any of the following, error logs of "STICK does not start (CPU)", "STICK does not start (MBC)", or "STICK count up error" may be registered, causing degradation of the CPU memory unit (CMUU/CMUL). Performing firmware update Detecting an XSCF failure Executing the switchscf(8) command	There is no effective workaround. After switching of the master XSCF is performed, power off the input power supply of all SPARC M10-4Ss and power them on again, without powering on the PPAR. When error log "STICK does not start (CPU)", "STICK does not start (MBC)", or "STICK count up error" is registered and a failure mark (*) appears on a part when you power on the PPAR after switching of the master XSCF, contact your field engineer.

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-121219- 019	x	x	x	When a PCI card is inserted to or removed from a PCI expansion unit, a number that is different from the relevant PCI card number (PCI#) is displayed in the log. In addition, when error log "PCICARD failed" is registered due to an error with the PCIe slot on the PCI expansion unit or the PCI card, a number other than that of the relevant PCI card number (PCI#) is displayed in the error log.	Read it as the number obtained by subtracting one from the PCI number (PCI#) displayed in the log.
RTIF2-130109- 002			x	If "Console path is switched" is registered in the event log of a system in which the physical partition (PPAR) consists of multiple system boards (PSBs), the PPAR-ID may have an invalid value.	There is no effective workaround.
RTIF2-130109- 005	х	x	x	If you use the replacefru(8) command to replace a power supply unit (PSU), "Indispensable parts are not installed (PSU)" may be registered in the event log.	This is an error log that is registered because a PSU is removed. Ignore it.

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130109- 006			x	If you change the setting information of the power supply interlocking function while the standby XSCF is in failure or starting, the changed setting information may not be reflected in the standby XSCF even after the start of the standby XSCF is completed. If XSCF switching occurs in this state, the master XSCF after the switching may not be able to achieve power supply interlocking based on the changed setting information.	 Disable the power supply interlocking function, and then configure it again using the following procedure: 1. Execute the setremotepwrmgmt -c disable command to disable the power supply interlocking function. 2. Save the management file, and then use the clearremotepwrmgmt(8) command to initialize the setting information. If the standby XSCF is starting, execute the clearremotepwrmgmt(8) command after the start is completed. If the standby XSCF is in failure, use the replacefru(8) command to replace the target FRU, and then execute the clearremotepwrmgmt(8) command to replace the target FRU, and then execute the start of the standby XSCF is completed. After the start of the standby XSCF is completed, execute the setting information based on the saved management file. Execute the setremotepwrmgmt -c enable command to enable the power supply interlocking function.
RTIF2-130109- 007	x	x	x	If all physical partitions (PPARs) are stopped and you try to power on a PPAR, the PPAR may not be powered on with no error log registered.	There is no effective workaround. Tun off the input power supply and turn it back on to all SPARC M10 system chassis and then try to power on the PPAR again.
RTIF2-130130- 001		x	x	If you turn on the AC when the system configuration has no CPU memory unit (upper) (CMUU), a "Hardware access error" error log is generated for CMUU. The same phenomenon occurs when you add or replace SPARC M10-4S.	The error log is registered because no CMUU is mounted. So, ignore it.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130212- 001			x	If the power save operation, which is set by the setpparmode (8) command, is "enabled," the following problems may occur.	Set the power save operation to "disabled" by using the setpparmode(8) command.
				 A hang-up (heartbeat function) in a logical domain may be unable to be detected. If the CoD resources of a CPU core are reduced during system startup (while a physical partition (PPAR) is operating), the PPAR may be powered off. 	
RTIF2-130212- 002	x	x	x	When you check the domain status by using the showdomainstatus(8) command from the XSCF after executing the ldm add-spconfig command from Oracle Solaris, "Host stopped" is displayed for all domains, including the control domain.	When you check the domain status by using the showdomainstatus(8) command from the XSCF after executing the ldm add-spconfig command from Oracle Solaris, "Host stopped" is displayed for all domains, including the control domain.
RTIF2-130212- 003	x	x	x	If you execute the testsb(8) command to a system board (PSB) that is being diagnosed by the testsb(8) or diagxbu(8) command in a different session, the PSB that is being diagnosed may enter an abnormal state and become unavailable.	Confirm that the PWR of the PSB to be diagnosed is "n" and that Test is not "Testing" by using the showboards(8) command before executing the testsb(8) command. If a PSB becomes unavailable, power off the entire system and then power it on again.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130215- 001			x	After the hardware initial diagnosis detects a system board (PSB) error as described in the following error log, the PSB may not be degraded but the physical partition (PPAR) may be reset repeatedly.	Disconnect the PSB where an error is detected from the PPAR configuration by using the deleteboard(8) command.
				Code: 40002000- 003cff0000ff0000ff- 02000e0000000000000000 FRU: /BB#x Msg: SB deconfigured (SB-SB access error) Code: 40002000- 003cff0000ff0000ff- 02000e0100000000000000 FRU: /BB#x Msg: SB deconfigured (not running)	
RTIF2-130215- 002	x	x	x	Even when policy is set to psb by the setpcl(8) command, a unit of resource to be degraded when an error occurs may not be a system board but Field Replaceable Unit (FRU).	Disconnect the PSB where an error is detected from the PPAR configuration by using the deleteboard(8) command.
RTIF2-130219- 001			х	The takeover IP address of an XSCF cannot be specified as a value for "IPAddress" or "SlaveAddress," which can be set in the management file for a power supply interlocking group.	Specify the IP addresses of XSCF-LAN#0 and XSCF-LAN#1 of the master XSCF and the standby XSCF for "IPAddress" and "SlaveAddress," respectively.
RTIF2-130219- 005		x	х	If a failure occurs in a component in a physical partition (PPAR), the status of the PPAR in the SNMP MIB is not updated.	There is no effective workaround.
RTIF2-130219- 008			x	If you turn on the input power supply to a SPARC M10-4S chassis while a physical partition (PPAR) is being powered on in a system that has multiple PPARs, the SPARC M10-4S chassis for which the input power supply is turned on may not be recognized by the master XSCF.	Power on the input power supply to all the crossbar boxes and SPARC M10-4S chassis that compose the system before powering on a PPAR.

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130227- 001			x	If you collect a snapshot by specifying the -a option, "XSCF Kernel Panic" may occur due to the increased load on the master XSCF.	If you collect a snapshot of the entire system, collect snapshots one by one by specifying a BB-ID of SPARC M10-4S using -b option and not -a option. Perform this operation on all SPARC M10-4S.
RTIF2-130305- 005			х	If XSCF panic occurs in a SPARC M10-4S while processing the diagnose by the POST after a physical partition (PPAR) is powered on in the system that has more than one SPARC M10-4S chassis, then the power may be disconnected without continuing the process of powering on the PPAR.	There is no effective workaround. Make sure that the XSCF of each SPARC M10-4S is restarted. Power on the PPAR again if they are restarted.
RTIF2-130305- 008			x	If each physical partition (PPAR) is configured with one system board (PSB) in the system that has more than one SPARC M10-4S chassis and crossbar box, the power of the crossbar unit of a crossbar box is not stopped and the crossbar box is also powered on.	There is no effective workaround.
RTIF2-130305- 010			x	Hypervisor Abort or OS PANIC may occur if all the PPARs are powered on using the poweron -a command in a system that has four or more SPARC M10-4S chassis units with multiple physical partitions (PPARs).	Do not power on all the PPARs at the same time using the poweron -a command. Power on each PPAR using the -p option.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130305- 013	x	x	x	While XSCF is starting, process down, panic or watchdog timeout occurs, which may cause XSCF to be reset.	Confirm that XSCF is successfully started. If it is not started, turn off the power of the physical partition (PPAR), and then disconnect the input power supply to the system and back on again (AC OFF/ON). When recycling the power supply to the system, wait for 30 seconds or more to turn on the input power supply after disconnecting. In case XSCF is not started even if recycling the input power supply to the system, replace the CPU memory unit (CMU).
RTIF2-130305- 021			x	Immediately after starting the XSCF, the system board (PSB) may be recognized as "Unmount" and the addboard (8) command or the poweron(8) command may fail.	Wait for about 30 seconds after starting up the XSCF and check that the target PSB is mounted using the showboards(8) command. Then execute the addboard(8) or poweron(8) command.
RTIF2-130305- 024			x	If the input power supply of a crossbar box is disconnected and then powered on again in the state where a physical partition (PPAR) is powered on in the system that has the crossbar boxes, the following message may be output in the control domain console and the power-on process of the PPAR may not be completed. WARNING: Unable to connect to Domain Service providers	There is no effective workaround. [How to restore] If the power-on process of the PPAR is canceled, disconnect the power of the PPAR forcefully using the poweroff -f command. After that, reset all the XSCFs using the rebootxscf -a command or disconnect the input power supply of all the SPARC M10-4S chassis and then power on again.
RTIF2-130319- 001		x	x	Immediately after the input power supply of SPARC M10-4/M10-4S is powered on, "DMA timeout error Hard detected" may be detected. The CPU memory unit (lower side) (CMUL) will be degraded if you start the logical domain with "DMA timeout error Hard detected" detected.	There is no effective workaround. Before starting the logical domain, disconnect the input power supply and then power it on again. If the degradation state of CMUL is not cleared after you start the logical domain, contact field engineers.

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130329- 001			x	During firmware updating in SPARC M10-4S, ALARM LED of the master chassis suddenly turns on and remains stopped, and the firmware updating may not complete.	There is no effective workaround.
RTIF2-130329- 002			х	If the configuration has two or more crossbar boxes and the physical partition (PPAR) is configured not to use any crossbar box, you cannot disconnect the power supply from the operating panel.	Disconnect the power by using the poweroff(8) command.
RTIF2-130329- 003	x	x	x	If you power off the input power supply while the status of the physical partition (PPAR) is PowerOn (from the startup of Oracle Solaris OS to the completion of PowerOff), an SRAM serious error occurs in any of the SPARC M10-4S units in the PPAR when you next power on the input power supply, preventing you from powering on the input power supply.	 When you power off the input power supply, do so after disconnecting the PPAR power supply in advance and making sure that disconnection is complete. If any problem occurs, restore the configuration with the following procedure: 1. Save settings with the dumpconfig(8) command. 2. Initialize the system to the factory default with the restoredefaults -c factory command. 3. Restore the configuration with the restoreconfig(8) command. with the restoreconfig(8) command.
RTIF2-130410- 004	x	x	x	The power may not be turned on/off from the operation panel.	If you power on from the XSCF shell, execute the poweron(8) command. If you power off from the XSCF shell, execute the poweroff(8) command. [How to restore] If this event occurs, power off the physical partition (PPAR) by using the poweroff -f command.

roblems resolved in versions prior to ACP 2050 (contin	prior to XCP 2050 (continued)
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RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130410- 005		x	Executing the poweron -a command leads to the failure of power-on if more than one PPAR is powered on or more than one PPAR has failed in the system that has multiple physical partitions (PPARs).	Specify the -p option to execute the poweron(8) command and turn on the power of each PPAR. [How to restore] If this event occurs, execute the poweroff -f command to forcefully power off the PPAR	
				whose power has stopped being supplied during the middle of the power supply process. Then execute the poweron -p command to power on the PPAR.	
RTIF2-130410- 006			x	 If a crossbar box has failed in the system that satisfies all the following conditions, a crossbar box may be degraded and the operation may not be continued. Two or more crossbar boxes are configured. Multiple PPARs are configured. Each physical partition (PPAR) is configured with multiple CPU memory units (CMUU/CMUL). 	There is no effective workaround. [How to restore] Execute the poweron -p command to power on the PPAR again whose power has been turned off due to an error in the crossbar box.
RTIF2-130410- 007			x	If you forcefully turn off the power of the physical partition using the poweroff -f command immediately after you powered on the physical partition, you may not be able to power on/off the physical partition after that.	After powering on a PPAR, do not execute the poweroff -f command until the ok prompt is displayed. [How to restore] If you fail to forcefully turn off the power of a PPAR, power off the input power supply and then turn on the power again (AC OFF/ON).

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130415- 001		x	x	In SPARC M10-4/M10-4S, if the firmware version is XCP 2031 or XCP 2032, the initial value of the following OpenBoot PROM environment variable differs from the default. Even if the setting is changed by using the setpparparam(8) command of the XSCF shell or the setenv command from the OpenBoot PROM prompt, it will return to the original value. auto-boot? false diag-switch? true fcode-debug? true local-mac-address? false	There is no effective workaround. Make a firmware update to XCP 2041 or a later version, and then set the value of the OpenBoot PROM environment variable again.
RTIF2-130416- 001	x	x	х	If the PCI device in the I/O domain is deleted (ldm rm-io) or a PCI device is added (ldm add-io), hypervisor abort may occur when the I/O domain starts.	To delete the PCI device in the I/O domain, delete all devices under the same route complex as that of the PCI device to be deleted (which have the same xxxx of /pci@xxxx) and then add the necessary devices again. Alternatively, do not assign multiple devices under the same route complex to a single I/O domain.
RTIF2-130417- 001			х	If the XSCF mounted in the crossbar box panics, it may be impossible to perform communication between the master XSCF and non-master XSCF.	There is no effective workaround. [How to restore] If the event occurs, wait for 15 minutes or longer, and then use rebootxscf -s to reset the master XSCF.
RTIF2-130507- 001	x	x	х	There is a case where a RAID volume cannot be recognized after a power failure occurred while using the hardware RAID function.	Please run the activate-volume command at ok prompt to activate a hardware RAID volume. For the detailed procedure, see "12.2.8 Re-enabling hardware RAID volume" in the <i>Fujitsu</i> <i>M10/SPARC M10 Systems</i> <i>System Operation and Administration</i> <i>Guide</i> .

 Table 3-9
 Problems resolved in versions prior to XCP 2050 (continued)

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround			
RTIF2-130515- 001	X	x	X	 While the system is operating, the following events may occur: 1. The prtpicl command no longer responds. 2. Display data (such as the XCP version) of prtpicl -v and prtdiag -v is not output as expected. 3. For /var/adm/messages, the warning message, "PICL snmpplugin: cannot fetch object value", is output. 4. XSCF CMDD process shutdown occurs and an XSCF is reset repeatedly, such that it becomes unusable. At this time, system operation can be continued. 	 There is no effective workaround. [How to restore] If event 1. occurs, recover with the following procedure. 1. End the prtdiag(1M) command with [Ctrl-C]. 2. Wait for about 30 minutes, and allow an SNMP timeout to occur in the XSCF. 3. In the control domain, execute the svcadm(1M) command to restart the picl service. If event 2. occurs, execute the command again. If results are displayed, the system can be operated continuously. If the state where results are not displayed as expected continues, check whether the XSCF is operating. If the XSCF is operating, use the rebootxscf(8) command to reset the XSCF. If the XSCF is not operating, turn the input power supply of the system off and then back on (AC OFF/ON) to recover. If event 3. occurs, the system can be operated continuously 			
								because this is a temporary warning message. If event 4. occurs, turn off the input power supply of the system, and then back on (AC
RTIF2-130612- 001			X	If the XCP firmware version is XCP 2041, XCP 2042, or XCP 2043, SPARC M10-4S cannot be replaced by using the replacefru(8) command in a system with more than one SPARC M10-4S.	OFF/ON) to recover. Perform cold replacement (replacement performed with the input power off) or update the XCP firmware version to XCP 2044 or later before performing replacement.			

Problems with Oracle Solaris and Workarounds

This section describes problems with Oracle Solaris and workarounds for each version.

Problems relating to all the versions of Oracle Solaris and their workarounds

The following table shows problems that might occur in any versions of Oracle Solaris being supported and workarounds for them.

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
15812880			x	If you try to access, via telnet or ssh, a domain where 8000 GB (about 7.8 TB) or greater memory is mounted, the following message appears on the destination control domain console and the access fails. • For ssh error: /dev/ptmx: Not enough space error: session_pty_req: session 0 alloc failed • For telnet telnetd: open /dev/ptmx: Not	This has been modified with Oracle Solaris 11.1 SRU3.5.1, and the patch 148888-04 for Oracle Solaris 10. [Workaround] Execute the following command to change ptmx_ptymax: [Example] # echo "ptms_ptymax/Z 0x400000" mdb -kw ptms_ptymax: 0 = 0x400000
				enough space	
15813959 15813960 (7196117)	х	x	x	When a PCI expansion unit is added by hotplug(1M) in a SPARC M10 system, devices on the PCI expansion unit are not recognized.	Before you add a PCI expansion unit by hotplug(1M), add the following line in the /etc/system file in advance and restart Oracle Solaris. set pcicfg:pcicfg_slot_busnums = 4
15822113	х	x	х	If ldm add-vcpu and ldm remove-vcpu are repeatedly avoguted in a shall corint the	This has been modified with SRU11.1.7.5.0.
				executed in a shell script, the process that is being run may cause a core dump and abnormally terminate.	If this defect occurs because SRU is not applied, execute the command again. In addition, when executing ldm remove-vcpu, execute it in such a condition that the process load is low.

 Table 3-10
 Problems that might occur in any versions of Oracle Solaris and their workarounds

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
15823255			x	An Oracle Solaris panic may occur if the CPU allocation is changed using the psradm(1M) or psrset(1M) command or the configuration of a virtual CPU is dynamically changed using the ldm(1M) command under the environment that meets the following two conditions. The environment where the physical partition (PPAR) is composed of two or more SPARC M10-4S chassis. The environment where the following lgroup exists when the lgrpinfo command is executed on the control domain or logical domain. Among the lgroups that are displayed as "lgroup XX (intermediate):", only one number is displayed before (CPU) of the "Lgroup resources:" field. This number is not displayed before (memory) [Example] # /usr/bin/lgrpinfo lgroup 12 (intermediate): Children: 10, Parent: 0 CPUs: 0 1 Memory: installed 520M, allocated 494M, free 26M Lgroup resources: 1 (CPU); 10 11 (memory) Latency: 21	This has been modified with Solaris 11.1 SRU5.5. [Workaround] Add the following line to /etc/system and restart Oracle Solaris: set lgrp_topo_levels=1
15825208 x	x	x	x	 In SPARC M10 Systems, the	This has been modified with
				scp(1), sftp(1), and ssh(1) commands of Oracle Solaris	Solaris 11.1 SRU1.4.
				may generate an error or installation of Oracle RAC may fail.	For details, see "An error occurs in executing the scp(1), sftp(1), or ssh(1) command of Oracle Solaris or the installation of Oracle RAC fails (CR:15825208)."

Table 3-10	Problems that might occur in an	v versions of Oracle Solaris and their workarounds (continued)
		······································

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
15826052	х	x	x	You cannot use the PCI hot plug (PHP) function to add a Quad Gigabit Ethernet card	This has been modified with XCP 2050 and SRU11.1.6.4.0.
				(SE1X7GQ2F) to a PCI-Express slot of a PCI expansion unit.	For XCP 2050, see the description of RTIF2-130528- 001. If XCP and SRU are not
					applied, stop the logical domain to which you want add the PCI card before adding it.
15840018 x	х	x	х	When the firmware is updated to XCP2031 or later, the following message is displayed when starting Oracle Solaris.	This has been modified with SRU11.1.6.4.0, and the patch 148888-03 for Oracle Solaris 10.
			NOTICE: skipping unsupported token: fjorclnum	Ignoring this message does not have an impact on the system.	
15851224 x	х	х	х	When starting the I/O domain, the following message may be output and the panic may percist	This has been modified with SRU 11.1.12.5.0, and patch 150840-01 for Oracle Solaris 10.
			recursive rw_enter, lp=XXXXXXXX wwwh=XXXXXXXXX thread=XXXXXXXX	Add the following to /etc/system of the I/O domain and restart Oracle Solaris: forceload: drv/vpci	
					Note that if starting of the I/O domain is disabled, you must change to inactive state the guest domain to which the virtual disk (vdisk), which is a target of the virtual disk service (vds) of the I/O domain, is assigned, with the ldm stop-domain and ldm unbind-domain commands. This will enable starting of the I/O domain. After starting the

 Table 3-10
 Problems that might occur in any versions of Oracle Solaris and their workarounds (continued)

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
15851441	х	x	x	When the memory fails and is degraded, the following message may be output at startup of Oracle Solaris, and the panic may persist. tilelet_assign_fini_cb(): tile 0xX in memgrp X was unused This may also occur when you set the mirror mode for the memory after saving the logical domain setting with ldm add-spconfig.	This has been modified with SRU11.1.11.4.0. [Workaround] For details, see "If Oracle Solaris is activated during memory degradation, a panic may occur (CR:15851441)."
15858713 16769782	x	x	x	If a memory error occurs and all the memories assigned to the guest domain are degraded, ldmd(1M) causes a core dump to abnormally terminate and the ldm(1M) command ends with an error.	 This has been modified with SRU11.1.10.5.0. If this defect occurs because SRU is not applied, replace the memory having an error. If you want to start Oracle Solaris while the memory having an error remains to be mounted, start it using the following procedure from XSCF. 1. Execute the poweroff(8) command to turn off the power of the physical partitions (PPARs). 2. Execute the setdomainconfig (8) command to restore PPARs to their factory-default state. setdomainconfig -p <i>ppar_id</i> -c default 3. Execute the poweron(8) command to start the PPARs. Oracle Solaris is started in the factory-default configuration which consists of only control domains.

 Table 3-10
 Problems that might occur in any versions of Oracle Solaris and their workarounds (continued)

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
15887244	х	x	х	When you start the SunVTS 7.0 ps14 and ps15 tests in a SPARC M10 system, they may terminate with an error.	This has been modified with Oracle Solaris 11.1 SRU4.6, and the patch 149395-02 for Oracle Solaris 10.
					There is no workaround other than applying the modification.
16292272			х	If you configure many guest domains in a system where 16 BBs compose one physical partition (BBAR), it takes time	This has been improved with SRU11.1.16.4.0, and the patch 150011-03 for Oracle Solaris 10.
				partition (PPAR), it takes time to perform binding for the guest domains. It approximately takes (the number of guest domains for which binding has already been performed $+ 1$) x 6 $+ 10$ seconds to perform binding. Therefore, if there are no domains for which binding has been performed, and binding is performed for the guest domains one by one through the ldm bind-domain command, the required time is obtained by summing the times taken to perform binding for all of them.	We recommend that you do not configure the system with a single PPAR but divide it into multiple PPARs and then configure guest domains in each PPAR. Having a configuration above not only mitigates the described phenomenon but also helps improve fault tolerance. If a virtual network switch (vsw) is configured, you can reduce the time for binding by half by setting inter-vnet-link to off. For notes when inter-vnet-link is set to off, see <i>Oracle VM Server for SPARC</i> <i>Administration Guide</i> or <i>Oracle</i> <i>VM Server for SPARC Release</i> <i>Notes</i> .
17510986	х	x	x	If the guest domain is Oracle Solaris 11.1 and SRU11.1.9 or newer is applied to it, or if the guest domain is Oracle Solaris 10 and 150400-01 or newer is applied to it, system panic may occur when conducting live migration or dynamic reconfiguration of physical partitions.	This problem has been fixed in SRU11.1.14.5.0. There is no workaround for Oracle Solaris 10.

Table 3-10	Problems that might occur in an	v versions of Oracle Solaris and	their workarounds (co	ontinued)

SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
х	X	x	If an access error is detected when accessing an internal SAS disk drive, further access to the disk may become impossible.	Perform settings for multipathing (MPxIO) on the internal HDD. If the Enhanced Support Facility 5.0 or later is applied, you do not have to perform the following operations:
				Note - Enhanced Support Facility (ESF) is supported only for SPARC M10 systems sold within Japan by Fujitsu.
				[Setting example] 1. Use the format(1M) command to check the product and model of the HDD which is mounted. # format
				2. Add the internal HDD information to the /kernel/drv/scsi_vhci.conf file.
				 [Setting example of scsi_vhci. conf file] For Oracle Solaris 11 scsi-vhci-failover-override = "TOSHIBA MBF2600RC", "f_sym";
				 For Oracle Solaris 10 device-type-scsi-options-list = "TOSHIBA MBF2600RC", "sym-opt"; sym-opt = 0x1000000;
				3. Use the stmsboot(1M) command to enable MPxIO. # stmsboot -e
	SPARC M10-1	SPARC M10-4 X X	SPARC M10-1SPARC M10-4SXX	SPARC SPARC M10-4S Description x x x x If an access error is detected when accessing an internal SAS disk drive, further access to the disk may become impossible.

 Table 3-10
 Problems that might occur in any versions of Oracle Solaris and their workarounds (continued)

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
-	x	x	x	When a logical domain with a 10 Gigabit Ethernet card (SP1X7HF1F) for which the value of OpenBoot PROM environment variable diag-switch? is set to true, the console displays the following warning message and the error log records "Msg: Device error (FCode informed error)". WARNING: /pci@X,XXXXX: FCODE mapin doesn't match decoded register type; Also, executing the showstatus (8) command may show "Degraded" for the FRU on	Ignore all these outputs. To prevent these outputs, execute the following command on the ok prompt to change the value of OpenBoot PROM environment variable diag-switch? to false. setenv diag-switch? false
				which the relevant PCI card is mounted.	
-			x	If the logical domain has degraded memory because of a memory failure, when dynamic reconfiguration of the physical partition is executed with the deleteboard(8) command, Oracle Solaris on the domain with the degraded memory may enter the panic state.	Before executing dynamic reconfiguration of the physical partition, check whether memory degradation has occurred from the control domain. If memory degradation has occurred, delete the associated memory area in advance. [How to check] Execute "ldm list-devices -a -S memory". If the resulting STATUS column displays "fail", the memory area has been degraded by SIZE from PA (physical address) displayed on the same line. [How to delete a memory area] Execute "ldm remove-memory <total above="" of="" sizes="" value=""> < domain name>".</total>

Table 3-10 Problems that might occur in any versions of Oracle Solaris and their workarounds (continued)

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
-	x	x	x	When "Oracle VM Server for SPARC 3.1.0.1/SRU11.1.14" is installed on the control domain, if dynamically assigned memory is reduced from a guest domain, which is running Oracle Solaris 10, with the "ldm set-memory" or the "ldm remove-memory" command, the ldmd(1M) command on the control domain may produce a core dump and it may be restarted.	Check the memory size that has been assigned to a logical domain with the "ldm list-domain" command and reduce it to the required size in several steps, using the "ldm remove-memory" command. It is recommended to reduce memory size by less than 256 MB at one time, but memory may also be reduced by a larger amount at one time. Meanwhile, the reduction may fail due to the occurrence of the same symptom while performing this action. In such a case, reduce the memory in smaller units.
-			х	If the addboard(8) command is executed in the "factory-default" configuration, CPU cores may not be assigned to the control domain.	Add the CPU cores or threads which were not added, using the "ldm add-core" command or the "ldm add-vcpu" command.
-			х	If dynamic reconfiguration is performed on a physical partition which has a dual channel 10G FCoE card (SP1X7FBR2F/SP1X7FBS2F/ 7101683 (7101684)+7101687 (7101688)) mounted on it, system panic may occur due to the processing of the emlxs driver.	There is no effective workaround. If this specific card is mounted on a system, conduct any reconfiguration in deactivated state instead of dynamic reconfiguration.
-			x	If dynamic reconfiguration is performed on a physical partition which has a Dual 10Gbps FCoE card (SE0X7EC12F/SE0X7EF12F/SG- PCIEFCOE2-Q-TA (SG- XPCIEFCOE2-Q-TA, 7105382)/SG-PCIEFCOE2-Q-SR (SG-XPCIEFCOE2-Q-SR, 7105381)) mounted on it, system panic may occur due to the processing of the qlge driver.	There is no effective workaround. If this specific card is mounted on a system, conduct any reconfiguration in deactivated state instead of dynamic reconfiguration.

 Table 3-10
 Problems that might occur in any versions of Oracle Solaris and their workarounds (continued)
CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
-			х	If dynamic reconfiguration is performed on a physical partition which has a dual channel 10Gbps FCoE card (SP1X7FAR2F/SP1X7FAS2F/ 7101673 (7101674)+7101677 (7101678)) mounted on it, system panic may occur due to the suspend processing of the inactivated qlcnic driver.	Before dynamically reconfiguring a physical partition on which this specific card is mounted, activate any unplumbed qlcnic interface with the "ifconfig <i>interface_name</i> plumb" command.
-			x	If dynamic reconfiguration is performed on a physical partition which has a Dual Port Gigabit Ethernet card (MMF) (SP1X7GD1F/7100482 (7100481)), connection is terminated.	There is no effective workaround. If this specific card is mounted on a system, conduct any reconfiguration in deactivated state instead of dynamic reconfiguration.

Table 3-10 Problems that might occur in any versions of Oracle Solaris and their workarounds (continued)

An error occurs in executing the scp(1), sftp(1), or ssh(1) command of Oracle Solaris or the installation of Oracle RAC fails (CR:15825208)

[Workaround]

Using the following procedure, change the setting so that the AES_CTR, AES_CBC_MAC, and AES_CFB128 algorithms are not used with the assist function of the encryption unit.

- If you use it with the client function (scp(1), sftp(1), ssh(1), etc.):
 - 1. Add the content of the setting to the target file as one line. A space is necessary only between "Cipher" and "aes128-cbc."
 - Target file
 - Settings for entire system: /etc/ssh/ssh_config
 - Settings per user: \$HOME/.ssh/ssh_config
 - Setting contents

```
Ciphers aes128-cbc,aes192-cbc,aes256-cbc,3des-bc,arcfour128, arcfour256,arcfour,blowfish-cbc
```

- If you use it with the server function (sshd(1M) etc.):
 - 1. Add the content of the setting to the target file as one line.
 - Target file

/etc/ssh/ssh_config

- Setting contents (recommended)

2. Restart the service with the following command:

svcadm restart svc:/network/ssh:default

• If the problem cannot be resolved with any of the client function and server function:

1. Add the following, in place of the above content of the setting:

UseOpenSSLEngine no

If Oracle Solaris is activated during memory degradation, a panic may occur (CR:15851441)

[Workaround]

If a panic occurs due to a memory failure, replace the failed memory.

If a panic occurs due to the memory mirror mode setting, start the system from the XSCF by using the following procedure.

Also, if a panic occurs due to a memory failure, starting the system from the XSCF by using the procedure shown below may prevent the problem, but this method is not always reliable. If a panic recurs even after the system is started by using the following procedure, replace the failed memory.

- 1. Execute the poweroff(8) command to power off the physical partition (PPAR).
- 2. Execute the setdomainconfig(8) command to place the PPAR in the factory-default state.

XSCF> setdomainconfig -p ppar_id -c default

3. Execute the poweron(8) command to activate the PPAR.

Oracle Solaris is started in the factory-default configuration which consists of only control domains.

If you set the mirror mode for the memory, configure a logical domain after setting the mirror mode in the factory-default condition. Then, save the settings with ldm add-spconfig.

In addition, you must not specify with ldm set-config or the setdomainconfig(8) command of XSCF the settings that were saved with no mirror mode set, to the environment where the mirror mode is used.

Problems with Oracle Solaris 11 and workarounds

The following table shows problems that might occur with Oracle Solaris 11 being supported and workarounds for them.

CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
17709858			X	If the system board is deleted by dynamic reconfiguration of the physical partition, any of the following phenomena may occur. - The following message is output from the logical domain, and Oracle Solaris enters the panic state. Fatal error has occured in: PCIe fabric.(0xxx)(0xxx) - There is a hangup during the device resume processing of a logical domain, and deleteboard(8) ends with an error due to a timeout.	There is no effective workaround. Please contact your sales representative on this.
16238762			x	If the system board is added by dynamic reconfiguration of the physical partition, the following message may appear. WARNING: mpo_cpu_add: defaulting to lgroup x for CPU x	Ignore this message since it does not affect any processing.

 Table 3-11
 Problems that might occur with Oracle Solaris 11 and workarounds

Problems with Oracle Solaris 10 and workarounds

The following table shows problems that might occur with Oracle Solaris 10 being supported and workarounds for them.

Table 3-12	Problems that might occur with Oracle Solaris 10 and workaroun	ıds
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CR ID	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
15738030	x	x	x	If both of the following conditions are satisfied, a control domain panic may occur with "BAD TRAP: type=31". - The operating system of the control domain is Oracle Solarie 10	This has been modified with the patch 148888-03 for Solaris 10. [Workaround] Perform the following
				 As a result of executing ldm list-domain -o memory primary, the RA (real 	1. Execute ldm list-domain -o memory primary to display the value of SIZE.
				address) is greater than 0x20000000000 (32 TB).	 Execute Idm start-reconf primary to enter the delayed reconfiguration mode. Execute Idm remove- memory 256M primary to reduce the assigned memory. Execute Idm set-memory primary to return the assigned memory back to the original size. Restart the Oracle Solaris of the control domain. Execute Idm list-domains -o memory primary to confirm that the RA is smaller than 0x20000000000. Execute Idm add-spconfig to save the configuration information to the XSCF.

Chapter 4

Information on SPARC M10-1 Hardware

This chapter describes special instructions and problems concerning the SPARC M10-1 hardware.

- Notes and Restrictions
- Problems with Hardware and Workarounds

Notes and Restrictions

Notes on using external DVD drive

USB bus power drive is not supported for external DVD drives connected via USB.

Notes on using USB memory

Prepare a USB memory as a medium in advance if you execute the command specifying the USB memory as a destination of saving data, among XSCF commands. The saved data contains information on the system. If you use the USB memory, consideration should be made for the management of the USB memory in which the data is saved, for security reasons.

Not all the commercially available USB memories of any manufacturer are guaranteed for their connectivity and operability with XSCF. Abnormalities may occur such as an XSCF firmware error or reset depending on your USB memories. In such a case, immediately stop using the USB memory.

When connecting a USB memory to the USB port for XSCF, directly connect it to the USB port. If you connect the USB memory via the USB hub or USB extension cable, it may cause an error.

Problems with Hardware and Workarounds

There is no problem that has been confirmed as of this moment.

Chapter 5

Information on SPARC M10-4 Hardware

This chapter describes special instructions and problems concerning the SPARC M10-4 hardware.

- Notes and Restrictions
- Problems with Hardware and Workarounds

Notes and Restrictions

Notes on using external DVD drive

USB bus power drive is not supported for external DVD drives connected via USB.

Notes on using USB memory

Prepare a USB memory as a medium in advance if you execute the command specifying the USB memory as a destination of saving data, among XSCF commands. The saved data contains information on the system. If you use the USB memory, consideration should be made for the management of the USB memory in which the data is saved, for security reasons.

Not all the commercially available USB memories of any manufacturer are guaranteed for their connectivity and operability with XSCF. Abnormalities may occur such as an XSCF firmware error or reset depending on your USB memories. In such a case, immediately stop using the USB memory.

When connecting a USB memory to the USB port for XSCF, directly connect it to the USB port. If you connect the USB memory via the USB hub or USB extension cable, it may cause an error.

Problems with Hardware and Workarounds

There is no problem that has been confirmed as of this moment.

Chapter 6

Information on SPARC M10-4S Hardware

This chapter describes special instructions and problems concerning the SPARC M10-4S hardware.

- Notes and Restrictions
- Problems with Hardware and Workarounds

Notes and Restrictions

Notes on using external DVD drive

USB bus power drive is not supported for external DVD drives connected via USB.

Notes on using USB memory

Prepare a USB memory as a medium in advance if you execute the command specifying the USB memory as a destination of saving data, among XSCF commands. The saved data contains information on the system. If you use the USB memory, consideration should be made for the management of the USB memory in which the data is saved, for security reasons.

Not all the commercially available USB memories of any manufacturer are guaranteed for their connectivity and operability with XSCF. Abnormalities may occur such as an XSCF firmware error or reset depending on your USB memories. In such a case, immediately stop using the USB memory.

When connecting a USB memory to the USB port for XSCF, directly connect it to the USB port. If you connect the USB memory via the USB hub or USB extension cable, it may cause an error.

Restrictions on replacing crossbar box

Replacement of a crossbar box using the replacefru(8) command is not supported at present. To replace a crossbar box, perform the following procedure:

1. Execute the showhardconf command to confirm that the crossbar box to be replaced is not the master chassis.

The crossbar box indicated as "Role:Master" is the master chassis.

```
XSCF> showhardconf
    :
    XBBOX#80 Status:Normal; Role:Master; Ver:2038h; Serial:2111206001;
    :
```

2. If the crossbar box to be replaced is the master chassis, execute the switchscf command to switch it to standby.

XSCF> switchscf -y -t Standby

- 3. The master XSCF is switched. Log in to the XSCF again.
- Power off the physical partition (PPAR) that uses the crossbar box, and then power off the crossbar box to be replaced.
 Confirm that the Power-LED on the operation panel of the crossbar box is turned off.
- 5. Disconnect the input power supply to the crossbar box to be replaced, and replace it.

Note - Although error logs for the crossbar box to be replaced are registered when the input power supply is disconnected, ignore all of them.

6. **Connect the power cord of the crossbar box to the input power supply.** For details, see "5.4 Connecting Cable to Crossbar Box" in the *Fujitsu M10/SPARC M10 Systems Installation Guide*.

Wait until STANDBY-LED on the operation panel of the crossbar box turns on.

7. Execute the diagxbu command to perform diagnosis of the newly installed crossbar box.

XSCF> diagxbu -y -b XX -t YY -t ZZ

Specify the BB_IDs (00 to 15) of SPARC M10-4S that is powered off in XX, YY, and ZZ.

8. Execute the showlogs command to confirm that no error occurred during the diagnosis.

```
XSCF> showlogs error
```

9. Confirm that there are no faulty components.

```
XSCF> showstatus
```

Restrictions on adding expansion rack 2

Addition of a crossbar box using the addfru(8) command is not supported at present. To add a crossbar box, see the "8.4 Adding the Expansion Rack 2" in the *Fujitsu M10/SPARC M10 Systems Installation Guide* and read Steps 17 and 18 as follows:

17. Connect all power cords of the crossbar box and SPARC M10-4S to the input power supply.

For details, see "5.2 Connecting Cable to SPARC M10-4/SPARC M10-4S" and "5.4 Connecting Cable to Crossbar Box."

- 18. Update the firmware to the same version as the master XSCF.
 - XCP 2040 or earlier

```
XSCF> getflashimage file:///media/usb_msd/images/XCPxxxx.tar.gzXSCF> flashupdate -c update -m xcp -s version
```

XCP 2041 or later

```
XSCF> flashupdate -c sync
```

Problems with Hardware and Workarounds

There is no problem that has been confirmed as of this moment.

Chapter 7

Information on PCI Expansion Unit Hardware

This chapter describes special instructions and problems concerning the PCI expansion unit hardware.

- Direct I/O Function for the PCI Expansion Unit
- Logical Domain Configuration Information and Save/Restore Methods of OpenBoot PROM Environment Variable
- Problems with PCI Expansion Units and Workarounds

Direct I/O Function for the PCI Expansion Unit

For XCP 2044 or later of SPARC M10-1/M10-4 and for XCP 2050 or later of SPARC M10-4S, the direct I/O function of Oracle VM Server for SPARC is supported for the PCI expansion unit. This makes it possible to assign an I/O domain for each slot of the PCI expansion unit. For details on the direct I/O function of Oracle VM Server for SPARC, see *Oracle VM Server for SPARC Administration Guide* for the version used. If the PCI expansion unit is connected to SPARC M10-4, make the setting below before using the direct I/O function. For SPARC M10-1, the setting below need not be made. The direct I/O function can be used simply by connecting the PCI expansion unit to SPARC M10-1.

Setting/displaying the direct I/O function

To set the direct I/O function for the PCI expansion unit, use the setpciboxdio(8) command of the XSCF firmware. To confirm the present settings, use the showpciboxdio(8) command.

For details on the setpciboxdio(8) and showpciboxdio(8) commands, see *Fujitsu M10/SPARC M10 Systems XSCF Reference Manual* or the manual page for each command.

Logical Domain Configuration Information and Save/Restore Methods of OpenBoot PROM Environment Variable

1. On the control domain, execute the ldm ls-spconfig command to display a configuration information list and confirm the configuration information that must be saved.

The following example indicates that test3 is the current configuration information.

```
# ldm ls-spconfig
factory-default
test1
test2
test3 [current]
```

If the current configuration is "next poweron", there will be a difference between the configuration information saved in the XSCF and that saved in the control domain. Therefore, execute the ldm add-spconfig command to save the current configuration information.

In the following example, since test3 is "next poweron", the current configuration information is saved in test4.

```
# ldm ls-spconfig
factory-default
test1
test2
test3 [next poweron]
# ldm add-spconfig test4
# ldm ls-spconfig
factory-default
test1
test2
test3
test4 [current]
```

2. Execute the ldm set-spconfig command to set the configuration information to be saved.

In the following example, test1 is saved.

```
# ldm set-spconfig test1
# ldm ls-spconfig
factory-default
test1 [next poweron]
```

```
test2
test3
```

3. Execute the poweroff(8) and poweron(8) commands on the XSCF to power off and then power on the physical partitions (PPARs).

After you stop the logical domain with an appropriate procedure, and then execute the ldm unbind command to set it in the inactive state, turn off the power to the system.

In the following example, the PPAR0 is powered off and on.

```
XSCF> poweroff -p 0
XSCF> poweron -p 0
```

4. Execute the ldm ls-spconfig command to confirm that the specified configuration information has been set.

The following example indicates that test1 has been set as the current configuration information.

```
# ldm ls-spconfig
factory-default
test1 [current]
test2
test3
```

5. Execute the ldm ls-constraints -x command to save the current configuration information.

Back up the XML if necessary.

In the following example, the current configuration information is saved in test1.xml.

ldm ls-constraints -x > /var/tmp/test1.xml

6. Execute the more command to check whether the configuration information is correct.

```
# more /var/tmp/test1.xml
<?xml version="1.0"?>
<LDM_interface version="1.3" xmlns:xsi=http://www.w3.org/2001/
XMLSchema-instancce</pre>
```

- 7. For the configuration information that must be saved, repeat Steps 2 to 6.
- 8. Execute the ldm set-spconfig factory-default command to set the system to factory-default.

```
# ldm set-spconfig factory-default
# ldm ls-spconfig
factory-default [next poweron]
test1 [current]
test2
test3
```

9. Execute the ldm rm-spconfig command to delete all the configuration information.

```
# ldm rm-spconfig test1
# ldm rm-spconfig test2
# ldm rm-spconfig test3
# ldm ls-config
factory-default [next poweron]
```

10. Shut down the logical domain and set it in the OpenBoot PROM state.

After you stop the logical domain with an appropriate procedure, and then execute the ldm unbind command to set it in the inactive state, turn off the power to the system.

shutdown -i0 -g0 -y

11. Execute the printenv command to confirm the OpenBoot environment PROM variable.

{0} ok printenv		
Variable Name	Value	Default Value
ttya-rts-dtr-off	false	false
ttya-ignore-cd	true	true
keyboard-layout		
reboot-command		
security-mode	none	No default
security-password		No default
security-#badlogins	0	No default
diag-switch?	false	false
local-mac-address?	true	true
fcode-debug?	false	false
scsi-initiator-id	7	7
oem-logo		No default
oem-logo?	false	false
oem-banner		No default
oem-banner?	false	false
ansi-terminal?	true	true
screen-#columns	80	80
screen-#rows	34	34
ttya-mode	9600,8,n,1,-	9600,8,n,1,-
output-device	virtual-console	virtual-console
input-device	virtual-console	virtual-console
auto-boot-on-error?	false	false

load-base	16384	16384
auto-boot?	false	true
network-boot-arguments		
boot-command	boot	boot
boot-file		
boot-device	/pci@8000/pci@4/pci@0/pc	disk net
multipath-boot?	false	false
boot-device-index	0	0
use-nvramrc?	false	false
nvramrc		
error-reset-recovery	boot	boot

For the parts that are omitted by "...", reconfirm the relevant parts.

```
{0} ok printenv boot-device
boot-device = /pci@8000/pci@4/pci@0/pci@0/scsi@0/disk@p0,0
```

12. Execute the poweroff(8) command on the XSCF to power off the PPARs.

XSCF> poweroff -p 0

- 13. In Step 14 and subsequent steps, restore the logical domain configuration information from the XML file based on the model you are using.
 - For SPARC M10-1, when the firmware is updated from XCP 2043 or earlier to XCP 2044 or later for a system with the PCI expansion unit, restore the logical domain configuration information from the XML file as described in Step 14 and subsequent steps.

For details on firmware update, see the *Fujitsu M10/SPARC M10 Systems System Operation and Administration Guide*.

- For the SPARC M10-4/M10-4S, when you execute the setpciboxdio(8) command to switch the enable/disable setting of the direct I/O function of the PCI expansion unit, restore the logical domain configuration information from the XML file as described in Step 14 and subsequent steps.

For details on the setpciboxdio(8) command, see the *Fujitsu M10/SPARC M10 Systems XSCF Reference Manual.*

14. Execute the showdomainconfig(8) command on the XSCF to confirm that the configuration information at the next startup of the PPARs is factory-default. In the following example, the configuration information at the next startup is factory-default.

In the following example, the configuration information at the next startup is not factory-default. In this case, execute the setdomainconfig(8) command to set the configuration information at the next startup time of PPARs to factory-default.

```
XSCF> showdomainconfig -p 0
PPAR-ID :0
Booting config
(Current) :test1
(Next) :test2
:
XSCF> setdomainconfig -p 0 -i 1
XSCF> showdomainconfig -p 0
       :0
PPAR-ID
Booting config
(Current) :test1
(Next) : factory-default
_____
                        _____
      :1
Index
config name :factory-default
domains :1
date created:-
```

15. To stop in the OpenBoot PROM state, check auto-boot? of the OpenBoot PROM environment variable. If the value is true, change it to false.

```
XSCF> setpparparam -p 0 -s bootscript "setenv auto-boot? false"
PPAR-ID of PPARs that will be affected:0
OpenBoot PROM variable bootscript will be changed.
Continue? [y|n] :y
```

If you change the value, confirm the OpenBoot PROM environment variable.

```
XSCF> showpparparam -p 0
use-nvramrc :-
security-mode :-
bootscript :
setenv auto-boot? false
```

16. Execute the poweron(8) command to restart the PPARs.

XSCF> poweron -p 0

17. Execute the showdomainstatus(8) command to confirm that "OpenBoot Running" is displayed as the state of the control domain, which is the state of the OpenBoot PROM.

```
XSCF> showdomainstatus -p 0
Logical Domain Name Status
primary OpenBoot Running
```

18. Execute the console(8) command to switch to the control domain console.

```
XSCF> console -p 0 -y
Console contents may be logged.
Connect to PPAR-ID 0?[y|n] :y
```

19. Based on the record of Step 11, restore the OpenBoot PROM environment variable.

In the following example, auto-boot? is restored to true.

```
{0} ok setenv auto-boot? true
auto-boot? = true
{0} ok printenv auto-boot?
auto-boot? = true
```

20. Boot Oracle Solaris.

{0} ok **boot**

21. Confirm that the system has started with the factory-default setting on the control domain.

```
# ldm ls-spconfig
factory-default [current]
```

22. Execute the ldm init-system command and the shutdown command to restart the control domain.

```
# ldm init-system -i /var/tmp/test1.xml
Initiating a delayed reconfiguration operation on the primary domain.
All configuration changes for other domains are disabled until the primary
domain reboots, at which time the new configuration for the primary domain
will also take effect.
# shutdown -y -g0 -i6
```

23. After restarting the control domain, perform binding and starting for other logical domains.

For logical domains with dependency relationships, start them in the correct order.

In the following example, root-domain and guest-domain are bound and started.



- # ldm start root-domain
- # 1dm bind guest-domain
- ldm start guest-domain

If binding fails because there is a duplicated resource, delete the relevant resource from the logical domain.

In the following example, a duplicated resource is deleted.

```
# ldm bind root-domain
No free matching I/O device for LDom root-domain, name PCIE1
# ldm start-reconf primary
# ldm rm-io PCIE1 primary
------
Notice: The primary domain is in the process of a delayed reconfiguration.
Any changes made to the primary domain will only take effect after it reboots.
```

When you delete a resource, restart the control domain.

shutdown -i6 -g0 -y

When you delete a resource, after restarting the control domain, perform binding and starting of other logical domains.

For logical domains with dependency relationships, start them in the correct order.

In the following example, root-domain and guest-domain are bound and started.

- # ldm bind root-domain
- # ldm start root-domain
- # ldm bind guest-domain
- # ldm start guest-domain
- 24. Execute the ldm ls command to confirm that the logical domain is operating normally.

# ldm ls							
NAME	STATE	FLAGS	CONS	VCPU	MEMORY	UTIL	UPTIME
primary	active	-n-cv-	UART	8	8 G	66%	4 m
root-domain	active	-t	5000	8	4 G	19%	29s
:							
:							

25. After restoring the configuration information, execute the ldm add-spconfig command to save the configuration information in the XSCF. In the following example, the test1 configuration information is saved in the XSCF.

```
# ldm add-spconfig test1
# ldm ls-spconfig
factory-default
test1 [current]
```

For logical domains with dependency relationships, start them in the correct order.

26. If there are multiple sets of configuration information to be restored, repeat Steps 14 to 26.

Problems with PCI Expansion Units and Workarounds

This section describes problems regarding the PCI expansion unit as well as the workarounds for them for each version of the PCI expansion unit firmware.

Problems and their workarounds for all versions of the PCI expansion unit firmware

The following table shows problems that might occur in any versions of Oracle Solaris being supported and workarounds for them.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130703- 001		x	x	When installing a PCI expansion unit by PCI hot plug (PHP), among PCI expansion unit slots 6, 7, 10 and 11, those without HBA will have command execution result "disconnected" instead of "empty" for the Oracle Solaris cfgadm(1M) command. Although the display is not appropriate, the slots work normally if you mount HBA. This phenomenon does not occur if you restart the logical domain after connecting the PCI expansion unit.	This is just a display problem and does not affect operation.

Table 7-1 Problems and their workarounds for all versions of the PCI expansion unit firmware

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130703- 002		х	х	When you install a PCI expansion unit with PCI hot plug (PHP), there may be lane degrade.	When using PHP, execute cfgadm -c configure instead of cfgadm -c connect.
RTIF2-130703- 003		х	х	When you install a PCI expansion unit by PCI hot plug (PHP), a PCI-Express correctable error may occur and cause degradation of the PCI expansion unit at the next reboot.	If there a fault error message is output after installing a PCI expansion unit with PHP, reinstalled the PCI expansion unit.
RTIF2-130703- 004		х	х	When you install a PCI expansion unit with PCI hot plug (PHP), the PCI expansion unit may not be recognized.	If the PCI expansion unit is not recognized after installing it with PHP, reinstall the PCI expansion unit.
RTIF2-130724- 002	x	x	x	If you install a 6Gbps SAS card in the PCI expansion unit with the PCI hot plug (PHP), linkup with PCI Express 8lane may not be successful and Speed may be displayed as "5.0GTx4" or "5.0GTx2" in response to executing the prtdiag(1M) command.	Restart the physical partitions (PPARs) or I/O domain, or reinstall the 6Gbps SAS card by PHP.
				[prtdiag output example] /SYS/PCI0 PCIE LSI,sas- pciex1000,72 LSI,2008 5.0GTx2 /pci@8000/pci@4/pci@ 0/pci@8/pci@0/pci@0/pci@ 1/pci@0/pci@8/LSI,sas@0	
RTIF2-130724- 003	х	x	x	The following error may be registered for the PCI cards mounted in slots 6, 7, 10, and 11 of the PCI expansion unit when the physical partitions (PPARs) are started.	When the device can be recognized from Oracle Solaris, ignore this error message.
				[Error message example] FRU: /MBU/PCI#0/ PCIBOX#0000/PCI#7 Msg: PCICARD failed	

 Table 7-1
 Problems and their workarounds for all versions of the PCI expansion unit firmware (continued)

Problems resolved in version 1130 of the PCI expansion unit firmware

The following table lists the problems resolved in version 1130 of the PCI expansion unit firmware.

Table 7-2	Problems resolved in version 1130 of the PCI expansion unit firmware
-----------	--

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-131120- 001	<u>M10-1</u> x	M10-4 X	M10-4S X	DescriptionIf an external factor causes aninstantaneous voltage drop or thelike, an error in the power supplyunit (PSU) of the PCI expansion unitis erroneously detected, and the errorlog "Msg: PSU failed" may beregistered. Moreover, if the erroneousdetection of this PSU error occurssimultaneously in two PSUs of thePCI expansion unit, the physicalpartition (PPAR) is shut down.You can use the showlogs error -vcommand to check whether thisproblem is due to an instantaneousvoltage drop caused by an externalfactor. Suppose that the executionresult for this command is "Msg: PSUfailed" and that the first, second, andthird bytes on the fourth line ofDiagnostic Code have the followingvalues. The problem may be due to,for example, an instantaneous voltagedrop caused by an external factor.First byte; "00"Second byte; The sixth (x04) bit fromthe left is 0 (any of *0, *1 *2, *3, *8, *9, *a, or *b).Third byte: The third (x20) bit fromthe left is 1 (any of 2*, 3*, 6*, 7*, a*, b*, e*, or f*)."*" for the second and third bytesindicates any value.The first to third bytes on the fourthline of Diagnostic Code are "000120".XSCF> showlogs error -vDate: Oct 30 10:27:17 JST 2013Code: 80000408-00cb000000ff0000ff-100002461010000000000Status: Alarm Occurred: Oct 3010:27:17.597 JST 2013FRU: /MBU/PCI#1/PCIBOX#7010/PSU	Workaround There is no effective workaround. If the value of the first to third bytes on the fourth line of Diagnostic Code does not match the value in the [Description] column, assume that a PSU failure occurred. [How to restore] - For this event occurring in a single PSU - If the error log "Msg: PSU RECOVERY" is registered, the system has already been restored from the instantaneous voltage drop. The system can be operated continuously. - If the error log "Msg: PSU RECOVERY" is not registered, a PSU failure occurred. Replace the PSU. - For this event occurring in two PSUs The PPAR is shut down. Reactivate the PPAR. If the PCI expansion unit cannot be powered on, it indicates that a PSU has failed. Replace the PSU.
				00012000 0000000 000000 000000 0000000 000000	

Problems resolved in version 1120 of the PCI expansion unit firmware

The following table lists the problems resolved in version 1120 of the PCI expansion unit firmware.

 Table 7-3
 Problems resolved in version 1120 of the PCI expansion unit firmware

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130703- 009	x	x	x	When physical partitions (PPARs) or the I/O domain is started, the 6Gbps SAS card mounted in the PCI expansion unit may not be successfully linked up with the PCI Express 8lane.	If the 6Gbps SAS card is not successfully linked up with the PCI Express 8lane, restart the PPARs or I/O domain, or reinstall the 6Gbps SAS card by PCI hot plug (PHP).

Problems resolved in version 1110 of the PCI expansion unit firmware

The following table lists the problems resolved in version 1110 of the PCI expansion unit firmware.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130703- 007	х	х	х	When physical partitions (PPARs) or the I/O domain is started, a link card may be erroneously detected as having an error.	The display of this error message does not affect the operation.
				[Example of message] FRU: /BB#0/PCI#1/LINK Msg: TWI access error	
RTIF2-130703- 008	х	x	x	When physical partitions (PPARs) or the I/O domain is started, a PCI-Express correctable error may occur and cause degradation of the PCI expansion unit at the next reboot of Oracle Solaris.	If the the error message is output, restart the PPARs or I/O domain, or reinstall the PCI expansion unit by PCI hot plug (PHP).

 Table 7-4
 Problems resolved in version 1110 of the PCI expansion unit firmware

Problems resolved in version 1100 of the PCI expansion unit firmware

The following table lists the problems resolved in version 1100 of the PCI expansion unit firmware.

RTI No.	SPARC M10-1	SPARC M10-4	SPARC M10-4S	Description	Workaround
RTIF2-130703- 005	x	x	x	When physical partitions (PPARs) or the I/O domain is started, the PCIe card or link board mounted in the PCI expansion unit may be erroneously detected as having an error. [Example of PCIe card message] FRU: /BB#0/PCI#3/ PCIBOX#1234/PCI#3 Msg: PCICARD failed [Example of link board message] FRU: /BB#0/PCI#0/ PCIBOX#1234/LINKBD Msg: TWI access error	The display of this error message does not affect the operation. When this problem occurs in the link board, the CHECK LED on the PCI expansion unit turns on. However, if this problem does not occur at the next start of the PPAR, the CHECK LED turns off.
RTIF2-130703- 006	x	x	x	If the serial number of the PCI expansion unit that is displayed upon execution of the ioxadm -v list command consists entirely of 0's ("000000000"), the following occurs: Hardware errors detected after the input power to the PCI expansion unit is turned on but before the power to the first physical partition (PPAR) is turned on are not registered as errors.	Do not replace an I/O board together with a fan backplane. Also, do not mount in the PCI expansion unit an I/O board or fan backplane that has been used previously in another PCI expansion unit. If the serial number of the PCI expansion unit that is displayed in response to execution of the ioxadm -v list command consists entirely of 0's ("0000000000"), execute the ioxadm(8) command of the XSCF firmware to restore the serial number. In this case, you need the fieldeng privilege. For details, see "Restoring the serial number of the PCI expansion unit (RTIF2-130703- 006)."

 Table 7-5
 Problems resolved in version 1100 of the PCI expansion unit firmware and their workarounds

Restoring the serial number of the PCI expansion unit (RTIF2-130703-006)

If the serial number of the PCI expansion unit that is displayed in response to execution of the ioxadm -v list command consists entirely of 0's ("000000000"), execute the ioxadm(8) command of the XSCF firmware to restore the serial number. In this case, you need the fieldeng privilege.

XSCF> ioxadm [-fvAM] serial target serial_num

For target, specify the identifier of the target PCI expansion unit. In this case, "PCIBOX#0000" is specified. For serial_num, specify the serial number of the PCI expansion unit before the change in the format of "nnnnnnnnn". The serial number is found on the label on the chassis of the PCI expansion unit.

This command replaces the serial number and identifier of the PCI expansion unit. By executing the ioxadm -v list command, you can confirm that the serial number and identifier have been replaced.

In the following example, the serial number of the PCI expansion unit is "2121212006".

XSCF> ioxadm serial	PCIBOX#0	000 212	1212006		
XSCF> ioxadm -v lis	t				
Location	Туре	FW Ve	Serial Num	Part Num	State
PCIBOX#2006	PCIBOX	-	2121212006		On
PCIBOX#2006/PSU#0	PSU	-	FEJD1201000170	CA01022-0750-D/	On
PCIBOX#2006/PSU#1	PSU	-	FEJD1245001342	CA01022-0750-D/7060988	On
PCIBOX#2006/IOB	IOBOARD	1110	PP121001JM	CA20365-B66X 007AF	On
PCIBOX#2006/LINKBD	BOARD	-	PP123300TR	CA20365-B60X 001AA	On
PCIBOX#2006/FANBP	FANBP	-	PP120904SY	CA20365-B68X 004AC	On
BB#00-PCI#00	CARD	1110			On
XSCF>					

Chapter 8

Contents of Revision of Documentation

This chapter describes the latest information which has been confirmed after documentations related to SPARC M10 Systems are released and contents of revision of documentations.

- Contents of Revision of Fujitsu M10/SPARC M10 Systems System Operation and Administration Guide
- Contents of Revision of Fujitsu M10/SPARC M10 Systems Domain Configuration Guide
- Contents of Revision of Fujitsu M10/SPARC M10 Systems XSCF Reference Manual

Contents of Revision of *Fujitsu M10/SPARC M10 Systems System Operation and Administration Guide*

This section describes the contents of revision of the *Fujitsu M10/SPARC M10 Systems System Operation and Administration Guide*.

Contents of revision	of Fujitsu M10/SPAR	C M10 Systems	System C	Depration and A	Administration	Guide
	Contents of revision	Contents of revision of Fujitsu M10/SPARC	Contents of revision of Fujitsu M10/SPARC M10 Systems	Contents of revision of Fujitsu M10/SPARC M10 Systems System C	Contents of revision of Fujitsu M10/SPARC M10 Systems System Operation and	Contents of revision of Fujitsu M10/SPARC M10 Systems System Operation and Administration

Section number	Contents of revision	n			
14.2.3	 The following has been added to "About hardware RAID management utility" of "14.2.3 Precautions concerning hardware RAID". The hardware RAID management utility is used on the logical domain to which the SAS controller has been assigned. Due to this, install the hardware RAID controller utility on the I/O root domain or I/O domain to which the SAS controller of the motherboard has been assigned. "Table 14-2 Standard synchronization time for the hardware RAID", which is located in "Notes when configuring/removing hardware RAID" of "14.2.3 Precautions 				
	Table 14-2 Sta	ndard synchronization time for the	hardware RAID		
	RAID	Number of disk drives	Synchronization time		
	1	2	6 hours		
	1E	3	20 hours		
	1E	5	35 hours		

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Contents of Revision of *Fujitsu M10/SPARC M10 Systems Domain Configuration Guide*

This section describes the contents of revision of the *Fujitsu M10/SPARC M10 Systems Domain Configuration Guide*.

54 hours

 Table 8-2
 Contents of Revision of Fujitsu M10/SPARC M10 Systems Domain Configuration Guide

Section number	Contents of revision
2.5.1	"Time synchronization" of "2.5.1 Considerations when configuring the system for dynamic reconfiguration" will be changed.
	Time synchronization When dynamic reconfiguration of physical partitions is performed, the system time of a logical domain may be delayed. The problem can be reduced by setting up synchronization with NTP servers, beforehand.
2.5.1	The following requirements will be added to "2.5.1 Considerations when configuring the system for dynamic reconfiguration."
	 Memory Configuration Requirements Before dynamically reconfiguring a physical partition, please ensure that the physical partition's memory configuration satisfies the requirements described by "Configuration of CPU Cores and Memory" in "2.5.2 Operation Requirements." For example, deleteboard(8) may fail if free memory on the remaining system boards is non-contiguous, even though there is enough total memory to satisfy the guest domain constraints. You can coalesce free memory on a system board by rebinding one or more logical domains. Control domain: Start a delayed reconfiguration with the "ldm start-reconf" command and execute the "ldm set-memory" command to rebind the memory. Reboot Oracle Solaris. Root domains, I/O domains, and guest domains: Shutdown Oracle Solaris. Rebind the domain by executing the "ldm unbind", "ldm bind", and "ldm start" commands.
2.5.2	The following notes will be added to "2.5.2 Considerations when operating the system for dynamic reconfiguration."
	Time synchronization When dynamic reconfiguration of physical partitions is performed, system time of a logical domain may be delayed. If there is no problem in correcting the system time of the logical domain is a short time span, use the ntpdate(1M) command to correct system time.
2.5.2	The following notes will be added to "Other considerations" in "2.5.2 Considerations when operating the system for dynamic reconfiguration."
	 If dynamic reconfiguration of a physical partition is performed while the load on the control domain is high, the addboard(8) or deleteboard(8) command may end with an error. Confirm that the load on the control domain is not high before executing the command again.

Contents of Revision of *Fujitsu* M10/SPARC M10 Systems XSCF Reference Manual

This section describes the contents of revision of the *Fujitsu M10/SPARC M10 Systems XSCF Reference Manual*.

Note that the contents of revision of the *Fujitsu M10/SPARC M10 Systems XSCF Reference Manual* are also applied to documentation pages, if not otherwise specified. Furthermore, the descriptions here have priority over information described in documentation pages.

 Table 8-3
 Contents of revision of Fujitsu M10/SPARC M10 Systems XSCF Reference Manual

Section number or command	Contents of revision		
addboard(8)	The following category description will be deleted.		
	OPTIONS , [-m <i>function=mode</i> , "bind"]		
	The descriptions,"This option is to be used when replacing PSBs." is deleted.		