

FUJITSU Software ServerView Resource Orchestrator V3.2.0



Troubleshooting

Windows/Linux

J2X1-7672-06ENZ0(05) September 2016

Preface

Purpose of This Document

This manual provides information on the corrective action to be taken when trouble occurs during installation or operation of FUJITSU Software ServerView Resource Orchestrator (hereinafter Resource Orchestrator).

Intended Readers

This manual is written for people who will install, operate, and maintain systems using Resource Orchestrator.

Structure of This Document

This manual is composed as follows:

Chapter 1 Flow of Troubleshooting

Explains the flow for troubleshooting.

Chapter 2 Operations for Physical Servers

Explains the corrective actions for trouble involving Virtual Edition.

Chapter 3 L-Server Operations

Explains the corrective actions for trouble that occurs when operating L-Servers.

Chapter 4 Operations for Images or Cloning Images

Explains the corrective actions for trouble that occurs when operating images or cloning images.

Chapter 5 Operations for Snapshots

Explains the corrective actions for trouble that occurs during snapshot operations.

Chapter 6 Operations for VM Management Software or Server Virtualization Software

Explains the corrective actions for trouble that occurs during operation of VM management software or server virtualization software.

Chapter 7 Operations for ROR Console

Explains the corrective actions for trouble that occurs when operating the ROR console.

Chapter 8 Operation of L-Platform Management Functions

Explains strategies for handling problems in the operation of L-Platform management functions.

Chapter 9 L-Platform Operations

Explains strategies for handling problems with L-Platform operations.

Chapter 10 VM hosts Operations

Explains strategies for handling problems with VM hosts operations.

Chapter 11 Dashboard Operations

Explains strategies for handling problems with Dashboard operations.

Chapter 12 Operations for Admin Servers

Explains the operations to use when troubleshooting the admin server.

Chapter 13 System Errors

Explains how to troubleshoot system errors.

Web Site URLs

URLs provided as reference sources within the main text are correct as of September 2016.

Document Conventions

The notation in this manual conforms to the following conventions.

- When there is different information for the different versions of Resource Orchestrator, it is indicated as follows:

[All Editions]	Sections relevant for all editions
[Cloud Edition]	Sections related to Cloud Edition
[Virtual Edition]	Sections related to Virtual Edition

- When using Resource Orchestrator and the functions necessary differ due to the necessary basic software (OS), it is indicated as follows:

[Windows Manager]	Sections related to Windows manager
[Linux Manager]	Sections related to Linux manager
[Windows]	Sections related to Windows
[Linux]	Sections related to Linux
[Red Hat Enterprise Linux]	Sections related to Red Hat Enterprise Linux
[Solaris]	Sections related to Solaris
[VMware]	Sections related to VMware
[Horizon View]	Sections related to VMware Horizon View
[Hyper-V]	Sections related to Hyper-V
[Xen]	Sections related to RHEL5-Xen
[KVM]	Sections related to RHEL-KVM
[Solaris Zones]	Sections related to Solaris Zones (Solaris 10) and Solaris Zones (Solaris 11)
[Solaris Zones (Solaris 10)]	Sections related to Solaris Zones with Solaris 10 VM hosts
[Solaris Zones (Solaris 11)]	Sections related to Solaris Zones with Solaris 11 VM hosts
[OVM for x86]	Sections related to Oracle VM Server for x86 2.2 and Oracle VM Server for x86 3.x
[OVM for x86 2.2]	Sections related to Oracle VM Server for x86 2.2
[OVM for x86 3.x]	Sections related to Oracle VM Server for x86 3.2 and Oracle VM Server for x86 3.3
[OVM for SPARC]	Sections related to Oracle VM Server for SPARC
[Citrix Xen]	Sections related to Citrix XenServer
[Physical Servers]	Sections related to physical servers

- Unless specified otherwise, the blade servers mentioned in this manual refer to PRIMERGY BX servers.
- Oracle Solaris may also be indicated as Solaris, Solaris Operating System, or Solaris OS.
- Oracle Solaris Zones may also be indicated as Solaris Containers or Solaris Container.
- Oracle VM Server for x86 may also be indicated as Oracle VM.
- In Resource Orchestrator, the following servers are referred to as SPARC Enterprise.
 - SPARC Enterprise M3000/M4000/M5000/M8000/M9000
 - SPARC Enterprise T5120/T5140/T5220/T5240/T5440

- In Resource Orchestrator, the following servers are referred to as SPARC M10.
 - SPARC M10-1/M10-4/M10-4S
- Fujitsu M10 is the product name used for SPARC M10 when they are sold outside Japan.
- References and character strings or values requiring emphasis are indicated using double quotes (").
- GUI items are shown enclosed by brackets ([]).
- The order of selecting menus is indicated using []-[].
- Text to be entered by the user is indicated using bold text.
- Variables are indicated using italic text and underscores.
- The ellipses ("...") in menu names, indicating settings and operation window startup, are not shown.
- The ">" used in Windows is included in usage examples. When using Linux, read ">" as meaning "#".
- When using Resource Orchestrator on Windows 8 and Windows Server 2012, please note the following.

 When OS operations are explained in this manual, the examples assume OSs up to Windows 7 and Windows Server 2008. When using Resource Orchestrator on Windows 8 or Windows Server 2012, take explanations regarding the [Start] menu as indicating the [Apps]

The [Apps] screen can be displayed by right-clicking on the [Start] screen and then right-clicking [All apps].

- When using Resource Orchestrator on Windows 8.1 and Windows Server 2012 R2, please note the following. When OS operations are explained in this manual, the examples assume OSs up to Windows 7 and Windows Server 2008. When using Resource Orchestrator on Windows 8.1 or Windows Server 2012 R2, take explanations regarding the [Start] menu as indicating the [Apps] screen.
 - The [Apps] screen can be displayed by swiping the [Start] screen from bottom to top, or clicking the downward facing arrow on the lower-left of the [Start] screen.
- When using Resource Orchestrator on Windows Server 2003 or Windows Server 2003 x64 Edition, take explanations regarding [Programs and Features] on the Control Panel as indicating [Add or Remove Programs].

Menus in the ROR console

Operations on the ROR console can be performed using either the menu bar or pop-up menus.

By convention, procedures described in this manual only refer to pop-up menus.

Regarding Installation Folder Paths

The installation folder path may be given as C:\Fujitsu\ROR in this manual.

Replace it as shown below.

[Virtual Edition]

screen.

- When using Windows 64-bit (x64)
 - C:\Program Files (x86)\Resource Orchestrator
- When using Windows 32-bit (x86)
 - C:\Program Files\Resource Orchestrator

[Cloud Edition]

C:\Program Files (x86)\Resource Orchestrator

Command Examples

The paths used in command examples may be abbreviated. When using commands, execute them using the paths in the "Name" column in the "Reference Guide (Command) VE" and the "Reference Guide (Command/XML) CE".

Abbreviations

The following abbreviations are used in this manual:

Abbreviation	Products	
Windows	Microsoft(R) Windows Server(R) 2003 R2, Standard Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition Microsoft(R) Windows Server(R) 2008 Standard Microsoft(R) Windows Server(R) 2008 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Datacenter Microsoft(R) Windows Server(R) 2012 Standard Microsoft(R) Windows Server(R) 2012 Datacenter Microsoft(R) Windows Server(R) 2012 R2 Essentials Microsoft(R) Windows Server(R) 2012 R2 Standard Microsoft(R) Windows Server(R) 2012 R2 Datacenter Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate Windows(R) 7 Professional Windows(R) 7 Ultimate Windows(R) 8 Enterprise Windows(R) 8.1 Pro Windows(R) 8.1 Enterprise	
Windows Server 2003	Microsoft(R) Windows Server(R) 2003 R2, Standard Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition	
Windows 2003 x64 Edition	Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition	
Windows Server 2008	Microsoft(R) Windows Server(R) 2008 Standard Microsoft(R) Windows Server(R) 2008 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Datacenter	
Windows 2008 x86 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x86) Microsoft(R) Windows Server(R) 2008 Enterprise (x86)	
Windows 2008 x64 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x64) Microsoft(R) Windows Server(R) 2008 Enterprise (x64)	
Windows Server 2012	Microsoft(R) Windows Server(R) 2012 Standard Microsoft(R) Windows Server(R) 2012 Datacenter Microsoft(R) Windows Server(R) 2012 R2 Essentials Microsoft(R) Windows Server(R) 2012 R2 Standard Microsoft(R) Windows Server(R) 2012 R2 Datacenter	
Windows PE	Microsoft(R) Windows(R) Preinstallation Environment	
Windows Vista	Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate	

Abbreviation	Products
	Windows(R) 7 Professional
Windows 7	Windows(R) 7 Ultimate
	Windows(R) 8 Pro
	Windows(R) 8 Enterprise
Windows 8	Windows(R) 8.1 Pro
	Windows(R) 8.1 Enterprise
	*
Windows 10	Windows(R) 10 Pro
	Windows(R) 10 Enterprise
	Red Hat(R) Enterprise Linux(R) AS (v.4 for x86)
	Red Hat(R) Enterprise Linux(R) ES (v.4 for x86)
	Red Hat(R) Enterprise Linux(R) AS (v.4 for EM64T)
	Red Hat(R) Enterprise Linux(R) ES (v.4 for EM64T)
	Red Hat(R) Enterprise Linux(R) AS (4.5 for x86)
	Red Hat(R) Enterprise Linux(R) ES (4.5 for x86)
	Red Hat(R) Enterprise Linux(R) AS (4.5 for EM64T)
	Red Hat(R) Enterprise Linux(R) ES (4.5 for EM64T)
	Red Hat(R) Enterprise Linux(R) AS (4.6 for x86)
	Red Hat(R) Enterprise Linux(R) ES (4.6 for x86)
	Red Hat(R) Enterprise Linux(R) AS (4.6 for EM64T)
	Red Hat(R) Enterprise Linux(R) ES (4.6 for EM64T)
	Red Hat(R) Enterprise Linux(R) AS (4.7 for x86)
	Red Hat(R) Enterprise Linux(R) ES (4.7 for x86)
	Red Hat(R) Enterprise Linux(R) AS (4.7 for EM64T)
	Red Hat(R) Enterprise Linux(R) ES (4.7 for EM64T)
	Red Hat(R) Enterprise Linux(R) AS (4.8 for x86)
	Red Hat(R) Enterprise Linux(R) ES (4.8 for x86)
	Red Hat(R) Enterprise Linux(R) AS (4.8 for EM64T)
	Red Hat(R) Enterprise Linux(R) ES (4.8 for EM64T)
	Red Hat(R) Enterprise Linux(R) 5 (for x86)
	Red Hat(R) Enterprise Linux(R) 5 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.1 (for x86)
Linux	Red Hat(R) Enterprise Linux(R) 5.1 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.2 (for x86)
	Red Hat(R) Enterprise Linux(R) 5.2 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.3 (for x86)
	Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.4 (for x86)
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	Red Hat(R) Enterprise Linux(R) 5.5 (for x86)
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	Red Hat(R) Enterprise Linux(R) 5.6 (for x86)
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	Red Hat(R) Enterprise Linux(R) 5.8 (for x86)
	Red Hat(R) Enterprise Linux(R) 5.8 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.9 (for x86)
	Red Hat(R) Enterprise Linux(R) 5.9 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.10 (for x86)
	Red Hat(R) Enterprise Linux(R) 5.10 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.11 (for x86)
	Red Hat(R) Enterprise Linux(R) 5.11 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6 (for x86)
	Red Hat(R) Enterprise Linux(R) 6 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.1 (for x86)

Abbreviation	Products
	Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.2 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.3 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.4 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.5 (for x86)
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	Red Hat(R) Enterprise Linux(R) 6.8 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 7.0 (for Intel64) SUSE(R) Linux Enterprise Server 10 Service Pack 2 for x86
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	SUSE(R) Linux Enterprise Server 10 Service Pack 2 for EM64T SUSE(R) Linux Enterprise Server 10 Service Pack 3 for x86
	SUSE(R) Linux Enterprise Server 10 Service Pack 3 for X86 SUSE(R) Linux Enterprise Server 10 Service Pack 3 for EM64T
	SUSE(R) Linux Enterprise Server 10 Service 1 ack 3 for Elvio41 SUSE(R) Linux Enterprise Server 11 for x86
	SUSE(R) Linux Enterprise Server 11 for EM64T
	SUSE(R) Linux Enterprise Server 11 Service Pack 1 for x86
	SUSE(R) Linux Enterprise Server 11 Service Pack 1 for EM64T
	Oracle Enterprise Linux Release 6.7 for x86 (32bit)
	Oracle Enterprise Linux Release 6.7 for 86_64 (64bit)
	Oracle Enterprise Linux Release 7.2 for x86 (32bit)
	Oracle Enterprise Linux Release 7.2 for x86_64 (64bit)
	Red Hat(R) Enterprise Linux(R) AS (v.4 for x86)
	Red Hat(R) Enterprise Linux(R) ES (v.4 for x86) Red Hat(R) Enterprise Linux(R) AS (v.4 for EM64T)
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	Red Hat(R) Enterprise Linux(R) 5.11 (for x86)
	Red Hat(R) Enterprise Linux(R) 5.11 (for Intel64)
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Red Hat Enterprise Linux 7	Red Hat(R) Enterprise Linux(R) 7.0 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Linux Virtual Machine
RHEL5-Xen	Function
	Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Linux Virtual
	Machine Function
	Red Hat(R) Enterprise Linux(R) 6.1 (for x86) Virtual Machine
	Function
	Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64) Virtual Machine Function
	Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Virtual Machine
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RHEL-KVM	Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) Virtual Machine
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	Red Hat(R) Enterprise Linux(R) 6.5 (for x86) Virtual Machine
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	Red Hat(R) Enterprise Linux(R) 6.7 (for x86) Virtual Machine
	Function
	Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) Virtual Machine
	Function
	Red Hat(R) Enterprise Linux(R) 6.8 (for x86) Virtual Machine

Abbreviation	Products	
	Function Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64) Virtual Machine Function	
Xen	Citrix XenServer(R) 5.5 Citrix Essentials(TM) for XenServer 5.5, Enterprise Edition Citrix XenServer(R) 6.0 Citrix Essentials(TM) for XenServer 6.0, Enterprise Edition Red Hat(R) Enterprise Linux(R) 5.3 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.8 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.9 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.9 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.9 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.9 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.9 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.10 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.10 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.10 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.10 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.11 (for Intel64) Linux Virtual	
XenServer 6	Citrix XenServer(R) 6.0 Citrix Essentials(TM) for XenServer 6.0, Enterprise Edition	
DOS	Microsoft(R) MS-DOS(R) operating system, DR DOS(R)	
SUSE Linux Enterprise Server	SUSE(R) Linux Enterprise Server 10 Service Pack 2 for x86 SUSE(R) Linux Enterprise Server 10 Service Pack 2 for EM64T SUSE(R) Linux Enterprise Server 10 Service Pack 3 for x86 SUSE(R) Linux Enterprise Server 10 Service Pack 3 for EM64T SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T SUSE(R) Linux Enterprise Server 11 Service Pack 1 for x86 SUSE(R) Linux Enterprise Server 11 Service Pack 1 for EM64T	

Abbre	viation	Products	
Oracle Enterprise Linux		Oracle Enterprise Linux Release 6.7 for x86 (32bit) Oracle Enterprise Linux Release 6.7 for 86_64 (64bit) Oracle Enterprise Linux Release 7.2 for x86 (32bit) Oracle Enterprise Linux Release 7.2 for x86_64 (64bit)	
Solaris		Oracle Solaris 10 05/09 (Update7) Oracle Solaris 11 11/11 Oracle Solaris 11.1 Oracle Solaris 11.2	
OVM for x86 2.2		Oracle(R) VM Server for x86 2.2	
OVM for x86 3.x	OVM for x86 3.2	Oracle VM Server for x86 v3.2.x	
OVWI 101 X80 3.X	OVM for x86 3.3	Oracle VM Server for x86 v3.3.x	
OVM for SPARC		Oracle(R) VM Server for SPARC	
Oracle VM Manager		Oracle(R) VM Manager	
Citrix XenServer		Citrix XenServer(R) 6.0 Citrix XenServer(R) 6.0.2 Citrix XenServer(R) 6.1.0 Citrix XenServer(R) 6.2.0	
ESC		ETERNUS SF Storage Cruiser	
GLS		PRIMECLUSTER GLS	
Navisphere		EMC Navisphere Manager	
Solutions Enabler		EMC Solutions Enabler	
MSFC		Microsoft Failover Cluster	
Solaris		Oracle Solaris 10 05/09 (Update7) Oracle Solaris 11 11/11 Oracle Solaris 11.1 Oracle Solaris 11.2	
SCVMM		System Center Virtual Machine Manager 2008 R2 System Center 2012 Virtual Machine Manager System Center 2012 R2 Virtual Machine Manager	
VMware		VMware vSphere(R) 4 VMware vSphere(R) 4.1 VMware vSphere(R) 5 VMware vSphere(R) 5.1 VMware vSphere(R) 5.5 VMware vSphere(R) 6	
VMware ESX		VMware(R) ESX(R)	
VMware ESX 4		VMware(R) ESX(R) 4	
VMware ESXi		VMware(R) ESXi(TM)	
VMware ESXi 5.0		VMware(R) ESXi(TM) 5.0	
VMware ESXi 5.1		VMware(R) ESXi(TM) 5.1	
VMware ESXi 5.5		VMware(R) ESXi(TM) 5.5	
VMware ESXi 6.0		VMware(R) ESXi(TM) 6.0	
VMware Infrastructure Client		VMware(R) Infrastructure Client	
VMware Tools		VMware(R) Tools	
VMware vSphere 4.0		VMware vSphere(R) 4.0	

Abbreviation	Products	
VMware vSphere 4.1	VMware vSphere(R) 4.1	
VMware vSphere 5	VMware vSphere(R) 5	
VMware vSphere 5.1	VMware vSphere(R) 5.1	
VMware vSphere 5.5	VMware vSphere(R) 5.5	
VMware vSphere 6.0	VMware vSphere(R) 6.0	
VMware vSphere Client	VMware vSphere(R) Client	
VMware vCenter Server	VMware(R) vCenter(TM) Server	
VMware vClient	VMware(R) vClient(TM)	
VMware FT	VMware(R) Fault Tolerance	
VMware DRS	VMware(R) Distributed Resource Scheduler	
VMware DPM	VMware(R) Distributed Power Management	
VMware Storage VMotion	VMware(R) Storage VMotion	
VMware vDS	VMware(R) vNetwork Distributed Switch	
VMware Horizon View	VMware Horizon View 5.2.x VMware Horizon View 5.3.x VMware Horizon 6.0 (with View)	
VIOM	ServerView Virtual-IO Manager	
SVOM	ServerView Operations Manager	
BladeLogic	BMC BladeLogic Server Automation	
Excel	Microsoft(R) Office Excel(R) 2003 Microsoft(R) Office Excel(R) 2007 Microsoft(R) Office Excel(R) 2010 Microsoft(R) Office Excel(R) 2013	
Excel 2003	Microsoft(R) Office Excel(R) 2003	
Excel 2007	Microsoft(R) Office Excel(R) 2007	
Excel 2010	Microsoft(R) Office Excel(R) 2010	
Excel 2013	Microsoft(R) Office Excel(R) 2013	
Internet Explorer	Windows(R) Internet Explorer(R) 8 Windows(R) Internet Explorer(R) 9 Windows(R) Internet Explorer(R) 10 Internet Explorer(R) 11	
Firefox	Firefox(R)	
ServerView Agent	ServerView SNMP Agents for MS Windows (32bit-64bit) ServerView Agents Linux ServerView Agents VMware for VMware ESX Server	
RCVE	ServerView Resource Coordinator VE	
ROR	FUJITSU Software ServerView Resource Orchestrator	
ROR VE	FUJITSU Software ServerView Resource Orchestrator Virtual Edition	
ROR CE	FUJITSU Software ServerView Resource Orchestrator Cloud Edition	
Resource Coordinator	Systemwalker Resource Coordinator Systemwalker Resource Coordinator Virtual server Edition	

Abbreviation	Products
Resource Coordinator VE	ServerView Resource Coordinator VE Systemwalker Resource Coordinator Virtual server Edition
Resource Orchestrator	FUJITSU Software ServerView Resource Orchestrator
SVFAB	ServerView Fabric Manager

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Chapter 1 Flow of Troubleshooting

This chapter explains the flow of troubleshooting.

In Resource Orchestrator, collection of troubleshooting data is recommended to aid in diagnosing operational problems. Troubleshooting data collected immediately after the occurrence of a failure aids in investigation and tracking down to the cause of the failure.

The following procedure shows how to cope with failures:

1. If a failure is believed to have occurred, collect troubleshooting data.

For collecting troubleshooting data, refer to the following topics:

- "1.1 Collecting Troubleshooting Data (During Installation)"
- "1.2 Collecting Troubleshooting Data (Virtual Edition)"
- "1.3 Collecting Investigation Data(Cloud Edition)"
- 2. Take corrective actions for the problems, and monitor the results of those actions.

After the problems are solved, continue normal operation.

- 3. Save the troubleshooting data collected in step 1 for future use in problem solving.
- 4. If the problem still remains, send the troubleshooting data collected in step 1 to Fujitsu technical staff and request investigation.

1.1 Collecting Troubleshooting Data (During Installation)

This section explains how to collect investigation data that is necessary to find the cause of the problem.

Collection Method

Collect data on the server with the following procedure.

1. Log in to the server with OS administrator privileges.

OS administrative privileges are required to collect troubleshooting data.

2. Execute the inst_collectinfo command.

[Windows Manager]

>/nstal/ation_medium\DISK1\Common\install_tool\inst_collectinfo dir<RETURN>

[Linux Manager]

#DVD-ROM_mount_point/disk1/Common/install_tool/inst_collectinfo.sh dir<RETURN>



When a DVD-ROM is automatically mounted by the automatic mounting daemon (autofs), as "noexec" is set for the mounting option the inst_collectinfo command cannot be started.

In that case, add "sh" and execute the inst_collectinfo command.

Example

sh /media/DISK1/Common/install_tool/inst_collectinfo.sh /tmp/inst_collectinfo

For details on the inst_collectinfo command, refer to "7.1 inst_collectinfo (Collection of Investigation Data during Installation)" in the "Reference Guide (Command) VE" or "13.4 inst_collectinfo (Collection of Investigation Data during Installation)" in the "Reference Guide (Command/XML) CE".

3. Send the collected investigation data to Fujitsu technical support.

1.2 Collecting Troubleshooting Data (Virtual Edition)

If a problem occurs on a system using Resource Orchestrator, use the following procedures to collect troubleshooting data so that Fujitsu technical staff can investigate the problem.

Two kinds of troubleshooting data can be collected. Collect the data which is relevant to one of the situations described below:

Collect initial troubleshooting data

To identify the cause of a problem, collect the data required to perform an initial diagnostic of the problem and contact Fujitsu technical staff.

The amount of data collected is small enough to be sent by e-mail.

Refer to "1.2.1 Collecting Initial Troubleshooting Data" for more information.

2. Collect exhaustive troubleshooting data

In some cases, the cause of a problem can be identified from the initial troubleshooting data alone, but in other cases, additional information is required.

In such cases, a large volume of data is required to perform a more exhaustive investigation and identify the cause of a problem. As a result, exhaustive troubleshooting data is significantly larger than initial troubleshooting data.

Collect and send exhaustive troubleshooting data if requested to do so by Fujitsu technical staff.

Refer to "1.2.2 Collecting Exhaustive Troubleshooting Data" for more information.



Once a problem occurs, troubleshooting data should be collected promptly. Otherwise, data necessary for a problem investigation may be overwritten.

1.2.1 Collecting Initial Troubleshooting Data

This section explains how to collect the data required to diagnose the causes of problems.

About Collection Methods

The initial troubleshooting data can be collected using the following methods.

Based on each collection method's characteristics, chose the appropriate one according to the environment and system state in which the problem occurred.

- Collecting data from the admin server

This method involves executing a troubleshooting data collection command (rexadm mgretl snap -all) on the admin server.

This method allows collection of data from all managed servers at once via the network. This is easier than executing a command individually on each managed server.

For how to collect the data, refer to "Collecting Data from the Admin Server (rexadm mgretl snap -all)".

Executing the rexadm mgrctl snap -all command requires approximately the free space determined by the following formula: Number_of_registered_servers * 30 MB + 65 MB

- Collecting data separately from each server

This method involves executing a data collection command (rexadm mgrctl snap or rexadm agtctl snap) on each server.

For how to collect the data, refer to "Collecting Data Separately from each Server (rexadm mgretl snap, rexadm agtetl snap)".

Around 65 MB of free space is required to execute the rexadm mgrctl snap command,

and around 30 MB of free space is required to execute the rexadm agtetl snap command.

- Collecting HBA address rename Setup Service Environment Data

This method involves collecting data that is required for identifying the cause of a problem that occurs on the HBA address rename setup service.

For how to collect the data, refer to "Collecting HBA address rename Setup Service Environment Data".

About 8 MB of free space is required to collect troubleshooting data for the HBA address rename server.



[VMware]

- For VMware ESX4, please also collect and send the following data to Fujitsu technical staff.
 - Use the copy command to collect and send the following files.

/var/log/vmware/hostd.log /var/log/vmware/hostd-*.log.gz /var/log/vmware/hostd-*.log.gz

- Collect and send the result (output) of the following command.

/usr/sbin/esxcfg-firewall -q

- For VMware ESXi, perform the following procedures on the server from which data is to be collected:
 - When VMware ESXi is not registered with VM management software
 - 1. Connect with VMware ESXi on the target VMware client.
 - 2. Select [Export]-[Export System Logs] from the [File] menu. The [Export System Logs] dialog is displayed.
 - 3. Specify the system log download destination.
 - 4. Click [OK].
 - When VMware ESXi is registered with VM management software
 - 1. Connect with VM management software on the VMware client.
 - 2. Select [Export]-[Export System Logs] from the [File] menu. The [Export System Logs] dialog is displayed.
 - 3. Select the target VMware ESXi.
 - 4. Specify the system log download destination.
 - 5. Click [OK].

Send the data output to the download destination to Fujitsu technical staff.

[Windows]

- For Windows, also collect the output result of command execution using the following procedure.
 - Collect and send the output result (applied patch list of UpdateAdvisor (middleware)) of the following command to Fujitsu technical staff.

UpdateAdvisor_installation_destination\uam showup

- Collect and send the output result (information of firewall configuration) of the following command to Fujitsu technical staff.
 - When using Windows 2008 or a later version

netsh advfirewall show allprofile netsh advfirewall firewall show rule name=all verbose

- When using Windows 2003

netsh firewall show state ENABLE netsh firewall show config ENABLE

- Use the copy command to directly collect the LAN Manager modules stored in the following location and send them to Fujitsu technical staff.
 - Manager_installation_destination\ScwPro\tftp\agent\dos\boot\NETBIND.COM

- Manager_installation_destination\ScwPro\tftp\agent\dos\boot\PROTMAN.DOS
- Manager_installation_destination\ScwPro\tftp\agent\dos\boot\PROTMAN.EXE

[Linux]

- For Linux, also collect the output result of command execution using the following procedure.
 - Collect and send the output result (table information of packet filter rules) of the following command.

iptables --list --verbose

Collecting Data from the Admin Server (rexadm mgretl snap -all)

Troubleshooting data from every managed server can be collected all at once by executing the command for collecting troubleshooting data, rexadm mgretl snap -all, on an admin server.

The following method is used to collect data with the data collection command, rexadm mgretl snap -all.

Collection Method

Perform the following procedure on the admin server to collect investigation data:

- 1. Log on to the admin server with OS administrative privileges.
 - OS administrative privileges are required to collect troubleshooting data.
- 2. Execute the rexadm mgrctl snap -all command.

[Windows Manager]

>"Installation_folder\SVROR\Manager\bin\rcxadm" mgrctl snap [-dir directory] -all <RETURN>

[Linux Manager]

#/opt/FJSVrcvmr/bin/rcxadm mgrctl snap [-dir directory] -all <RETURN>

3. Send the collected troubleshooting data to Fujitsu technical staff.



- The manager must be running on the admin server in order to collect data from the admin server. If the manager cannot be run, collect data from each server.
- When collecting data via the admin server, data cannot be collected from a managed server in the following cases.
 - Communication cannot be established with the server
 - The managed server is stopped

In either case, however, data will continue to be collected from other managed servers.

Use the command execution logs to check the execution results.

For details, refer to "5.11 rexadm mgrctl" in the "Reference Guide (Command) VE".

For managed servers where data collection has failed, collect data by either executing the rexadm mgretl snap -all command on the admin server again, or by executing the rexadm agtetl snap command on the managed server where data collection failed.

[VMware]

- When a managed server is VMware ESXi, data cannot be collected from that managed server. Use the procedure described in "About Collection Methods" for collecting data.

Collecting Data Separately from each Server (rexadm mgretl snap, rexadm agtetl snap)

In addition to the rexadm mgrctl snap -all command, which can collect troubleshooting data from all the managed servers at once, the commands rexadm mgrctl snap and rexadm agtetl snap are also provided. These collect data from only the server on which they are executed.

Use the following procedure to collect data with the rexadm mgrctl snap command or the rexadm agtetl snap command.

Collection Method

Perform the following procedure on the server from which data is to be collected:

1. Log on to the server with OS administrator privileges.

OS administrative privileges are required to collect troubleshooting data.

2. Execute the rexadm mgretl snap command or the rexadm agtetl snap command.

Note that the command differs depending on the server from which data is collected.

- For Admin Servers:

[Windows Manager]

>"Installation_folder\SVROR\Manager\bin\rcxadm" mgrctl snap [-dir directory] <RETURN>

[Linux Manager]

#/opt/FJSVrcvmr/bin/rcxadm mgrctl snap [-dir directory] <RETURN>

- For Managed Servers:

[Windows] [Hyper-V]

>"Installation_folder\Agent\bin\rcxadm" agtctl snap [-dir directory] <RETURN>

[Linux] [VMware] [KVM]

#/opt/FJSVrcxat/bin/rcxadm agtctl snap [-dir directory] <RETURN>

[Solaris] [Solaris Zones]

#/opt/FJSVrcvat/bin/rcxadm agtctl snap [-dir directory] <RETURN>

3. Send the collected troubleshooting data to Fujitsu technical staff.

For details, refer to "5.2 rcxadm agtctl" or "5.11 rcxadm mgrctl" in the "Reference Guide (Command) VE".



[VMware]

When the managed server is VMware ESXi, collect data using the procedure described in "About Collection Methods".

Collecting HBA address rename Setup Service Environment Data

The following method is used to collect the troubleshooting data necessary to investigate problems that occur on an HBA address rename setup service.

Collection Method

Perform the following procedure on the HBA address rename server to collect troubleshooting data.

1. Collect files from the HBA address rename server.

[Windows]

From the HBA address rename server, collect the log file *installation_folder*\WWN Recovery\rcxinstaller.log, and all files and folders under the following folder: *installation_folder*\WWN Recovery\var.

[Linux]

Collect the log file /var/tmp/rcxhbainstaller.log, and all files and folders under the following folder: /var/opt/FJSVrcvhb.

2. Obtain OS system logs.

[Windows]

Collect event logs (application and system logs).

[Linux]

Collect all /var/log/messages and /var/log/messages. X files. (The messages. X part represents the file name such as messages. 1 or messages. 2)

3. Take a screenshot of the window displayed when the problem occurred.

Perform the following operation on the HBA address rename server from which the data is to be collected in order to take a screenshot of the window:

Press the [Print Screen] key to copy image data onto the Clipboard, and then paste the image data into an image editing tool and save it as a bitmap file.

4. Obtain system version information.

[Windows]

From Windows explorer, right-click the "My Computer" icon, and select [Properties] from the popup menu.

In the [System Properties] dialog click the [General] tab and use the procedure explained in step 3 to obtain information such as the OS type, version and level, and service pack number.

[Linux]

Execute and collect the results of the following commands.

# cat /etc/redhat-release <return></return>		
# cat /proc/version <return></return>		
# cat /proc/meminfo <return></return>		
# cat /proc/cpuinfo <return></return>		
# rpm -qa <return></return>		

5. Send the collected troubleshooting data to Fujitsu technical staff.

1.2.2 Collecting Exhaustive Troubleshooting Data

This section explains how to collect exhaustive troubleshooting data.

When the cause of a problem cannot be determined from the initial troubleshooting data, exhaustive troubleshooting data becomes necessary.

About Collection Methods

The troubleshooting data used to identify the causes of problems is collected by executing troubleshooting data collection commands (rexadm mgretl snap -full or rexadm agtetl snap -full) on each server.

About 80 MB of free space is required to use this function.

Collection Method

Perform the following procedures on the server from which data is to be collected:

- 1. Log on to the server with OS administrator privileges.
 - OS administrative privileges are required for collecting investigation data.
- 2. Execute the rexadm mgretl snap -full command or the rexadm agtetl snap -full command.

Note that the command differs depending on the server from which data is collected.

- For Admin Servers:

[Windows Manager]

>"Installation_folder\SVROR\Manager\bin\rcxadm" mgrctl snap [-dir directory] -full <RETURN>

[Linux Manager]

#/opt/FJSVrcvmr/bin/rcxadm mgrctl snap [-dir directory] -full <RETURN>

- For Managed Servers:

[Windows] [Hyper-V]

>"Installation_folder\Agent\bin\rcxadm" agtctl snap [-dir directory] -full <RETURN>

[Linux] [VMware] [KVM]

#/opt/FJSVrcxat/bin/rcxadm agtctl snap [-dir directory] -full <RETURN>

[Solaris] [Solaris Zones]

#/opt/FJSVrcvat/bin/rcxadm agtctl snap [-dir directory] -full <RETURN>

3. Send the collected troubleshooting data to Fujitsu technical staff.

For details, refer to "5.2 rexadm agtetl" or "5.11 rexadm mgretl" in the "Reference Guide (Command) VE".



[Hyper-V]

The following files should also be collected manually.

Collect them using Explorer and then send them to Fujitsu technical staff.

OS system log

All files under the following folder: windows_folder\system32\wbem\logs

[VMware]

For VMware ESX 4 or VMware ESXi, collect data referring to "About Collection Methods" in "1.2.1 Collecting Initial Troubleshooting Data".

[Windows]

When it is necessary to collect event logs other than the logs collected as initial troubleshooting data, collect and send the output result of the following command to Fujitsu technical staff.

The time and date collection of logs was started is shown in yyyymmdd, and the time and date collection of logs was completed is shown in YYYYMMDD.

```
wmic ntevent where "(logfile='system' and timegenerated>='yyyymmdd' and timegenerated<='YYYYMMDD')"
list /FORMAT:LIST
wmic ntevent where "(logfile='security' and timegenerated>='yyyymmdd' and timegenerated<='YYYYMMDD')"
list /FORMAT:LIST</pre>
```

wmic ntevent where "(logfile='application' and timegenerated>='yyyymmdd' and timegenerated<='YYYYMMDD')" list /FORMAT:LIST</pre>

1.3 Collecting Investigation Data(Cloud Edition)

This section explains how to collect investigation data that is necessary to find the cause of the problem.

The following describes collecting investigation data with the collection commands (ctmg_collectinfo or rexadm agtetl snap) and collecting investigation data for storage management software and VM management products.

Refer to "13.2 ctmg_collectinfo (Collection of Investigation Data)" in the "Reference Guide (Command/XML) CE" for information on the command.

Refer to "5.3 rcxadm agtctl" in the "Reference Guide (Command/XML) CE" for information on the command.

Collection procedure

Collect data on the server with the following procedure.

1. Log in to the server with OS administrator privileges.

OS administrator privileges are required to collect troubleshooting data.

2. Execute either the command ctmg_collectinfo, or the rexadm agtetl snap -full and pmdiag commands.

Note that which command to execute depends on the function of the server.

- For the admin server

[Windows Manager]

>"Installation_folder|RCXCTMG\bin\ctmg_collectinfo" dir <RETURN>

[Linux Manager]

/opt/FJSVctmg/bin/ctmg_collectinfo.sh dir < RETURN>

- For the managed server

[Windows][Hyper-V]

>"Installation_folder\Agent\bin\rcxadm" agtctl snap [-dir dir] -full <RETURN>

>"Installation_folder\RCXCTDSBA\bin\pmdiag <RETURN> (*1)

[Linux]

#/opt/FJSVrexat/bin/rexadm agtetl snap [-dir dir] -full <RETURN>

/opt/FJSVssqc/bin/pmdiag <RETURN> (*2)

[VMware][KVM][OVM for x86 3.x]

#/opt/FJSVrexat/bin/rexadm agtetl snap [-dir dir] -full <RETURN>

[Solaris]

/opt/FJSVrcvat/bin/rcxadm agtctl snap [-dir dir] -full <RETURN>



For VMware ESXi, because the agent of this product cannot be installed, you cannot execute investigation data collection commands.

- PMDiag?.cab
- "?": denotes the index number of each of created files. No number is placed if only one file is created.
- *2: Execution results will be stored in /tmp. Collect following files.
- pmdiag_*.tar.gz
- pmdiag_*.log

"*": denotes <host name>_<timestamp>. Timestamp format may differ according to system environment.

3. Collect investigation data for the storage management product and the VM management product.

For information about the collection procedures, see the manuals of these products.

[VMware]

When the VM management product is VMware vCenter Server, perform the operation as follows. Because the file size of investigation data is large, make sure that there is enough storage space before the operation.

- a. Start VMware vSphere(TM) Client, and then connect to VMware vCenter Server as a user with system operation administrative privileges.
- b. From the menu, select [Administration]-[Export System Logs].
- c. Specify VMware vCenter Server as the object to export.
- d. Specify the location to store and click [OK] button.

[Citrix Xen]

In the creating a L-Server or the collecting a cloning image, there is a possibility that the problem occurs by the sysprep of Windows processing or processing the mini setup when the error of following vmerrno =820 occurs.

- 67390 creating VM guest failed. detail=(timeout occurred while executing the customizing process.,vmerrno=820, ip=*IP_address*, host=*VM_host_IP_address*)
- 67397 FJSVrcx:ERROR:67397:failed to create image. detail=(timeout occurred while executing the customizing process.,vmerrno=820,ip=ip=*IP_address*, host=*VM_host_IP_address*)

Collect sysprep logs, Windows mini setup logs and customize tool logs on the VM guest according to the followin procedure.

- a. Start XenCenter and connect it to the VM host to manage.
- b. Force shutdown the VM guest that the error occurs to when it is running state.
- c. Detach the disk at the position 0 of the VM guest in the storage tab.
- d. Attach the disk that is detached from the VM guest according to the above-mentioned procedure to a Windows VM guest that is possible to start normaly.

At this time, it does not care that the VM guest is running state or stopped state.

- e. Start the VM guest that the disk attached to and logon as administrator account.
- f. There is a possibility that the attached disk cannot be refered by the Explorer etc. when it is attached to the VM guest in the running state.

Rescan disks with the disk managed tool when the disk is not refered.

g. Collect the all files in the following folders from the attached disk.

(The following are examples when the system drive of the attached disk is recognized as G drive.)

- G:\Windows\Panther
- G:\Windows\System32\sysprep
- G:\Program Files (x86)\Fujitsu\Resource Orchestrator\WinGuestCustomizeTool (in case of 64bit system)

- G:\Program Files\Fujitsu\Resource Orchestrator\WinGuestCustomizeTool (in case of 32bit system)
- h. Shutdown the VM guest.
- i. Detach the disk that is attached to the VM guest.
- j. Attach the disk to the VM guest that the error occurs to in storage tab.
- 4. Send the collected investigation data to Fujitsu technical support.

Chapter 2 Operations for Physical Servers

This chapter explains the operations to use when troubleshooting physical servers.

2.1 OS Startup Issues (with I/O Virtualization)

This section explains how to troubleshoot startup issues on managed servers.

- When using HBA address rename

When using HBA address rename, the WWN that was set for the server's HBA is set from the manager when the server is powered on again.

When errors occur within the admin server, the HBA address rename setup service sets the WWN for the server's HBA.

Use the following procedure to confirm and correct the problem.

1. If the server was replaced immediately beforehand, confirm that hardware information was successfully reconfigured following server replacement.

For details, refer to "6.2.2 Reconfiguration of Hardware Properties" or "6.3.1 Reconfiguration of Hardware Properties" in the "Operation Guide VE".

2. Check the storage environment.

Check that the WWN set for the server's HBA have access to the appropriate storage device and logical volume. Set a proper access path if none was configured yet.

For details, refer to "8.2 Configuring the Storage Environment" in the "Design Guide VE".

3. Check the manager's startup status.

For details on how to check the startup status of the manager, refer to "2.1 Starting and Stopping Managers" in the "Operation Guide VE".

- 4. Perform either one of the following based on the manager's startup status.
 - If the manager is not running

Start the manager.

If the manager cannot start because of a server fault, for example, recover the server after completing step 5.

- If the manager is already running

Occasionally the timing of the manager startup can prevent it from controlling a managed server. If this is the case, restart the managed server.

Even if the manager is running, if communication problems happen on the admin LAN (due to issues with network interfaces, cabling, or LAN switches), the managed server will not start. After performing step 5, the LAN configuration must be repaired.

5. Check the running state of the HBA address rename setup service.

Check the running state of this service in the HBA address rename server.

Start the server where this service has been set up if it is not running yet, then start the managed server.

The WWN for the managed server's HBA will then be set using the most recent state synchronized with the admin server.

6. Check the managed server console.

Check the managed server console to confirm that it has successfully started up.

If an error message is output, take action according to the corresponding message ID in "Messages".

7. For managed servers other than PRIMERGY BX servers, check that the MAC address entered at registration is correct. If it is incorrect, reconfigure the server's hardware properties.

The registered MAC address can be confirmed in the [Resource Details] tab for the corresponding physical server.

Refer to "A.6 [Resource Details] Tab" in the "User's Guide VE" for details.

- 8. Check the following network environment.
 - Whether communication between the admin server and the managed server is possible

- Whether there are any DHCP or PXE servers running on the subnet used by managed servers
- When the admin server and the managed server belong to different subnets, whether the DHCP relay agent of the router is correctly configured
- When using VIOM
 - 1. Check settings for the WWN of server HBA, the MAC addresses of NIC, booting, and networking which are managed by VIOM

Check if the admin LAN server profile is correct or not by opening the VIOM client.

2. Check the storage environment.

Check if the settings for WWN of the server's HBA, the MAC addresses of NIC, and booting can access correct storage units and volume. If the setting was not completed, set the proper access path.

For details, refer to "8.2 Configuring the Storage Environment" in the "Design Guide VE".

2.2 "unknown" Server Status

This section explains how to troubleshoot a registered managed server whose status is "unknown" even though the managed server is still running.

When errors or warning messages are displayed in the event log, take the appropriate action referring to the "Messages". Check the following points and resolve the cause of any problems:

- Communication between the admin server and the server management unit is not possible

Check if it is possible to connect to either the Web or the telnet interface of the server management unit (management blade or remote management controller).

- Communication between the admin server and the managed server is not possible

Check that the admin LAN IP address is correctly set on the managed server.

Check LAN switch blade configurations to confirm that the same VLAN ID or the same port group (for switch blades operating in IBP mode) is set for the ports used by the managed server and the admin server on the admin LAN.

When using PRIMERGY BX600 servers and changing the VLAN ID used for the admin LAN, proceed as follows to preserve communication from the admin server to the LAN switch blade. First, change the VLAN ID set for the admin LAN port (on the LAN switch blade) connected to the admin server, as well as the VLAN ID set for the switch blade's own network interface. Then, change the VLAN ID for the admin LAN port connected to the managed server.

For the overview and the setup of the VLAN for the managed server, refer to "7.1 Network Configuration" in the "Design Guide VE" and "9.1.8 Changing the VLAN Settings of LAN Switch Blades" in the "User's Guide VE".

- Communication is not allowed for the ports used by Resource Orchestrator

Allow communication for the ports described in "Appendix A Port List" in the "Design Guide VE".

- The Resource Orchestrator agent is not running

Make sure that the agent is running on the managed server.

- ServerView Agents is not running

For PRIMERGY servers, check whether ServerView Agents is running properly on the managed server.

[Windows] [Hyper-V]

From the Windows Control Panel, open "Administrative Tools" and then open the [Services] window. Check that the status of the Server Control Service and SNMP Service is shown as "Started".

[Linux] [VMware] [Xen] [KVM]

Execute the following commands to check if the ServerView Agents service is running.

/etc/init.d/srvmagt status <RETURN>

/etc/init.d/eecd status <RETURN>

/etc/init.d/snmpd status < RETURN>

The above commands are not available if ServerView Agents is not installed. If they are not available, install ServerView Agent on the managed server.

If ServerView Agents is not running, refer to the ServerView Agent manual for how to start the ServerView Agents.

- SNMP community settings are incorrect

Make sure that the SNMP community settings on the management blade, management board, and managed server match those set in Resource Orchestrator during chassis and server registration.

- Hardware properties were not reconfigured after replacing the server

Identify the MAC address of the replacement server, and check if it is the same address as that set for the admin LAN (MAC address) in the [Resource Details] tab of the ROR console.

If the MAC address is different, reconfigure the hardware properties from the ROR console.

- No information could be obtained from the server virtualization software running on the managed server

In environments where no VM management software was registered, or for VM hosts that are not managed by VM management software, the status of a VM guest is displayed as "unknown" if its information could not be obtained from the server virtualization software used to run that VM guest. Check whether the server virtualization software is operating correctly.

If it is operating correctly, its account information (user account name and password) may have changed. As a result, the settings no longer correspond to those registered in Resource Orchestrator. In that case, change the virtualization software's account settings registered in Resource Orchestrator.

Refer to "9.1.7 Changing VM Host Login Account Information" in the "User's Guide VE" for details.

- No information could be obtained from VM management software

In environments where VM management software was registered, the status of a VM guest (on a VM host managed by this VM management software) is displayed as "unknown" if its information could not be obtained from the VM management software. Check whether the VM management software is operating correctly.

If it is operating correctly, its account information (user account name and password) may have changed. As a result, the settings no longer correspond to those registered in Resource Orchestrator. In that case, change the VM management software's account settings registered in Resource Orchestrator.

For details, refer to "9.6 Changing VM Management Software Settings" in the "User's Guide VE".

- The remote management controller's IP address, user name, or password was changed after server registration

Change the IP address, user name and password settings registered for this remote management controller in Resource Orchestrator. Refer to "9.1.5 Changing Server Management Unit Configuration Settings" in the "User's Guide VE" for details.

- The remote server management IP address, user name, or password was changed after server registration

Change the IP address for remote server management, user name, and password settings registered in Resource Orchestrator. Refer to "9.1 Changing Chassis and Managed Server Settings" in the "User's Guide VE" for details.

- High load on the admin server, server management unit, or managed server

Resource statuses may be temporarily shown as "unknown".

- Power control of partitions has been performed on PRIMEQUEST

Resource statuses may be temporarily shown as "unknown".

- The chassis has been powered off on PRIMEQUEST

The statuses of the target chassis and servers are all shown as "unknown".

- The routing settings of the router are not correctly configured

When using an admin server to manage managed servers belonging to other subnets, configure the router settings. For details, refer to "7.6 Configuring the Network Environment" in the "Design Guide VE".

- When even though the chassis is powered on, and the network connection has no errors, the unknown status continues

[Linux]

Collect and send the result (output) of the following command.

In \${COMMUNITY}, enter the management blade community name, and in \${MMB_IP}, enter the management blade IP address.

```
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.3.5.1
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.3.1.5
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_IP\} .1.3.6.1.4.1.7244.1.1.1.4.1.1.5
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_IP\} .1.3.6.1.4.1.7244.1.1.3.1.7
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.3.2.3
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.3.1.6
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.1.1
snmpwalk -v \ 1 -c \ \$\{COMMUNITY\} \ \$\{MMB\_IP\} \ .1.3.6.1.4.1.7244.1.1.1.2.1.1.11
snmpwalk -v \ 1 -c \ \$ \{ COMMUNITY \} \ \$ \{ MMB\_IP \} \ .1.3.6.1.4.1.7244.1.1.1.2.1.1.10
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_IP\} .1.3.6.1.4.1.7244.1.1.1.5
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_{IP}\} .1.3.6.1.4.1.7244.1.1.1.4.10.1.1.11
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.2.1.1.6
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.2.1.1.7
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.2.1.1.22
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.2.1.1.2
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.2.1.1.1
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.1.1.7
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.3.1.1.3
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_IP\} .1.3.6.1.4.1.7244.1.1.4.3.1.1.4
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_{IP}\} .1.3.6.1.4.1.7244.1.1.4.3.1.1.6
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_IP\} .1.3.6.1.4.1.7244.1.1.4.4.2.1.4
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_{IP}\} .1.3.6.1.4.1.7244.1.1.4.7.1.1.2
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.7.1.1.4
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.7.1.1.3
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.7.1.1.5
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.4.7.1.1.6
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.13.1.1.5
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.13.1.1.6
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.13.1.1.1.2
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.13.2.1.1
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.13.2.1.2
snmpwalk -v 1 -c \{COMMUNITY\} \{MMB_{IP}\} .1.3.6.1.4.1.7244.1.1.5.1.1.2
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.5.1.1.5
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.5.1.1.6
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.5.1.1.7
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.5.1.1.10
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.5.1.1.11
snmpwalk -v 1 -c ${COMMUNITY} ${MMB_IP} .1.3.6.1.4.1.7244.1.1.1.5.1.1.9
```

2.3 Public LAN Communication Issues

This section explains how to troubleshoot communication issues for managed servers on the public LAN.

Use the following procedure to confirm and resolve any problems.

- The VLAN is not correctly set up
 - LAN switch blade internal ports must be set to the same VLAN ID(s) as external public LAN ports.
- Port groups are not correctly set up
 - For LAN switch blades operating in IBP mode, internal ports and external ports should belong to the same port group.
- The public LAN IP address is not correctly set up
 - Check that the public LAN IP address is correctly set on the managed server.
 - The subnet mask must be correct
 - There should be no IP address conflicts

- Routing information is not correctly set up

Verify that the routing settings for the server allow for communication to an address on a different subnet.

2.4 Multipath Configuration Issues

This section explains how to troubleshoot startup issues on managed servers set with a multi-path configuration.

When using HBA address rename, the managed server will start in a single path configuration if the selected number of HBA ports was set to "1" in the "HBA Address Rename Settings" dialog. For a multi-path configuration, the number of HBA ports for HBA address rename should be set correctly.

For details on how to reconfigure this setting, refer to "7.4.2 HBA address rename Settings" in the "User's Guide VE".

2.5 Server Switchover and Failback Issues

This section explains the troubleshooting steps to be performed when the server switchover or server failback process fails.

If server switchover or server failback is performed without all the conditions specified in "9.3 Server Switchover Conditions" in the "Setup Guide VE" being satisfied, one of the following error messages may be output:

Switchover:

FJSVrcx:ERROR:61143:switchover:failed

FJSVrcx:ERROR:69122:timeout occurred while executing power control modules

Failback:

FJSVrcx:ERROR:61143:failback:failed

FJSVrcx:ERROR:69122:timeout occurred while executing power control modules

Use the following procedure to confirm and correct the problem.

- 1. Recheck the spare server conditions with reference to "9.3 Server Switchover Conditions" in the "Setup Guide VE". If any conditions are not satisfied, change the configuration to ensure that all conditions are met.
- 2. The corrective action differs depending on the switchover method used for switchover of the server to the spare server.
 - When using the HBA address rename method

If the following error message is output to the managed server console, the WWN may have failed to be set for the server HBA. Take the action specified for "Message number 61308" in "Messages". Note that in this case there is no need to set the WWN again.

FJSVrcx:ERROR:61308:WWN setting failed. code=%1,%2

An internal error code is displayed in %1.

One of the following messages is displayed in %2.

- a. HBA adapter not found
- b. command error
- c. TFTP error
- When using the storage affinity switchover method

The destination server differs depending on the progress of the server switchover operations.

From Recent Operations of the ROR console, check [Progress Details]-[Progress List] for the server switchover to identify which operation has failed.

- When the error occurred during an operation prior to [Checking server boot]

Restore the primary server environment and then perform server switchover again. Perform the following procedure to restore the access path settings.

- a. Use the storageadm zone info command to confirm the zoning and host affinity configurations.
- b. Use the storageadm zone add/delete command to confirm the zoning of primary servers and host affinity configurations.

For details on how to use the storageadm zone command, refer to the "ETERNUS SF Storage Cruiser Operation Guide".

- When the error occurred during [Checking server boot] or subsequent operations

The operations before starting the OS on the spare server have been completed, and the error has occurred during subsequent operations. Restore the spare server environment.

3. Perform the switchover or failback operation again.

[OVM for SPARC]

If the server switchover of OVM for SPARC environment fails, please recovery it manually.

Recovery target will change along with the progress of server switchover.

Confirm [Progress Details]-[Progress List] of server switchover from the progress of ROR console, when server switchover fails, take it as a particular.

When error occurs before [OVM XML Configuration Information's Backup] has been carried out.

Please recover the environment at primary server, and switch server again.

- 1. Run storageadm zone info command to confirm zoning and host affinity setting.
- 2. Run storageadm zone add/delete command to recover primary server's zoning and host affinity setting.

For the usage of storageadm zone command, refer to "ETERNUS SF Storage Cruiser Operation Guide".

3. Set the configuration information which is used in control domain from XSCF.

XSCF> setdomainconfig -p 0 <RETURN>

After running the command above, please select domain configuration.

4. Switchover the Server Again

When error occurs after [OVM XML Configuration Information's Backup] has been carried out.

The process before OS startup at spare server is over, error occurs while post processing. Please carry out the post processing manually which was skipped, and continue to operate.

- 1. Please start with carrying out the process manually which was skipped.
 - Backup for OVM XML configuration information

There is no need to operate it.

- Recovery for domain configurations

Recover all domain configurations in system from domain configurations' XML files which were saved before server switchover.

primary# ldm init-system -r -i /etc/opt/FJSVrcvat/config/ovm_config.xml <RETURN>

- Restart of control domain

There is no need to operate it.

- Wait for OS stop completion

There is no need to operate it.

- Wait for server startup completion

There is no need to operate it.

- Recovery of PCIe

Reconfigure the physical I/O devices allocated to the control domain and IO domain.

The same physical I/O device may have been configured for both the control domain and IO domain by OVM specification. Reconfigure the allocations of physical I/O devices.

The list of PCIe endpoint devices can be confirmed using the ldm list-io command.

For details, refer to the "Oracle VM Server for SPARC Administration Guide" provided by Oracle.

- Restart of control domain

Please restart the control domain.

primary# shutdown -y -i6 -g0 <RETURN>

- Wait for OS stop completion

There is no need to operate it.

- Wait for server startup completion

There is no need to operate it.

- Recovery of virtual console

Reconfigure the port number used for the console of the guest domain.

When the port number of a certain console for the guest domain is configured during setup of the environment using OVM specifications, that port number may be disabled.

If the configured port number is disabled, reconfigure the port number.

Use the ldm set-vconsole command to set the port number.

For details, refer to the "Oracle VM Server for SPARC Administration Guide" provided by Oracle.

- IO domain startup

Please startup IO domain.

When the IO domain has not been created outside the control domain, this operation is not necessary.

- Guest domain startup

Please startup each guest domains after IO domain startup has completed.

- Save domain configuration information in the file.

primary # ldm add-spconfig configuration information name<RETURN>

- Update for switchover status

There is no need to operate it.

2. Please save OVM XML configuration information.

While server switchover, automatic saving processing of configuration information's XML file has stopped.

In order to start automatic saving processing of XML file, please save the configuration information's XML file from GUI or CLI. For details, refer to the following:

Refer to "18.5.4.1 Saving from the GUI" in the "User's Guide VE".

Refer to "18.5.4.2 Saving from the CLI" in the "User's Guide VE".

Refer to "18.5.4.3 Automatic Saving" in the "User's Guide VE".

2.6 HBA Address Rename is Set by Mistake

This section explains the troubleshooting steps to perform when HBA address rename is mistakenly set for a managed server that does not need it (such as when the managed server only uses internal disks).

If HBA address rename is set for a server that does not have an HBA, the following message will be output to the managed server console when the managed server is restarted:

FJSVrcx:ERROR:61308:WWN setting failed. code=%1,%2

An internal error code is displayed in %1.

One of the following messages is displayed in %2.

- a. HBA adapter not found
- b. command error
- c. TFTP error

To prevent HBA address rename from being used, delete and then re-register the managed server.

2.7 Boot Issues (Boot Order Related)

This section explains the action to take when a managed server cannot be booted from the CD-ROM, or the system disk (local disk or SAN storage) cannot be recognized even though the managed server can be booted from the CD-ROM.

If this trouble occurs, it may mean that the priority boot order of the system BIOS is incorrect.

Refer to "6.2.7 Configuring BIOS Settings of Managed Servers" in the "Design Guide VE", and check that the boot order of the system BIOS is correct.

2.8 Boot Issues (Endless Reboot Cycle)

This section explains how to troubleshoot a managed server stuck in an endless reboot cycle, when that managed server is using HBA address rename.

Confirm the following points to identify and resolve the cause of this issue.

- Make sure that BIOS settings were properly configured. For instructions on BIOS settings, refer to "6.2.7 Configuring BIOS Settings of Managed Servers" in the "Design Guide VE".
- Make sure that the network environment was properly configured. For instructions on the network configuration, refer to "Required Network Configuration when Using HBA address rename" in "7.1 Network Configuration" in the "Design Guide VE".
- Make sure that all manager services are started. For details on manager services, refer to "2.1 Starting and Stopping Managers" in the "Operation Guide VE".
- Make sure that HBA firmware/BIOS version installed on a managed server are supported.

2.9 The dialog for the HBA address rename setup service is displayed with garbled characters.

Description

When starting the HBA address rename setup service in the following Linux environments, the characters in the displayed dialog may be garbled.

- Red Hat(R) Enterprise Linux(R) 6.4 (for x86) or later
- Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) or later

Corrective Action

Perform the following procedure, then redisplay the dialog.

1. Create the fallback directory.

mkdir /opt/FJSVrcvhb/jre6/lib/fallback <RETURN>

2. Create a symbolic link to the font path in the fallback directory.

cd /opt/FJSVrcvhb/jre6/lib/fallback <RETURN>

In -s /usr/share/fonts/vlgothic/VL-Gothic-Regular.ttf VL-Gothic-Regular.ttf <RETURN>

In -s /usr/share/fonts/vlgothic/VL-PGothic-Regular.ttf VL-PGothic-Regular.ttf <RETURN>

3	Restart the HBA	address re	name cetun	cervice
Э.	Kestart the fiba	address re	manne setub	service.

 $\# \ nohup \ /opt/FJSVrcvhb/bin/rcxhbactl \ start \& \ < RETURN>$

Chapter 3 L-Server Operations

This chapter explains the operations to use when troubleshooting L-Servers.

3.1 The Guest OS Associated with the L-Server does not Start Properly.

Description

When an L-Server assigned with an image is started for the first time or when the guest OS is being started, one of the following messages is displayed on the guest OS console and the guest OS fails to startup.

- a. "The computer restarted unexpectedly or encountered an unexpected error." is displayed
- b. "Windows could not parse or process the unattend answer file for pass [specialize]" is displayed
- c. "Your Product Key uniquely identifies your copy of windows." is displayed on the product key entry screen
- d. "The system could not log you on. Make sure your User name and domain are correct, and then type your password again. Passwords are case-sensitive." is displayed

Corrective Action

The parameters set for the OS specified when creating an L-Server may be incorrect. Set the correct values and perform the operation again.

- For a. through c.:

Check the product key value. If the value is not correct, set the correct value.

For d.:

Check the administrator password value. If the value is not correct, set the correct value.

For details on the parameters set for the OS, refer to "16.2.5 [OS] Tab" or "16.3.5 [OS] Tab" in the "User's Guide for Infrastructure Administrators (Resource Management) CE".

3.2 Login to VMs Using Japanese Keyboard Environments Fails.

Description

When creating an L-Server using images with the following OS types, login to VMs using Japanese keyboard environments may fail.

- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008
- Windows 8
- Windows 7
- Windows Vista

Corrective Action

Log in to a VM guest using a software keyboard, by opening "Regional and Language Options" on the Control Panel, and set the appropriate language.

3.3 When Opening the Physical L-Server Console Screen, the iRMC Management Window may be Opened.

Description

When right-clicking the target physical L-Server in the orchestration tree, and selecting [Console Screen] from the popup menu, the L-Server console screen is opened. After this is done once, this operation may open the iRMC management window instead of the physical L-Server console screen.

In this case, the following message is displayed on the iRMC management window.

Login required to continue.

Please login with a valid username and password

Corrective Action

Perform the following corrective actions:

- 1. Close the displayed iRMC management window.
- 2. Then open the physical L-Server console screen again from the ROR console.

3.4 Cannot Communicate Outside of the Chassis after Creating the L-Server.

Description

If the switch blade is being used is in end host mode, then there may have been a pin-group other than the default pin-group created.

Corrective Action

Delete all but the default pin-group.

3.5 When Creating or Starting a Physical L-Server, the Update of VIOM Configuration Information in Recent Operations may be Displayed.

Description

It shows that VIOM profiles have been updated on a different physical L-Server from before, based on the usage change of physical L-Servers

That is not the problem as only VIOM profiles are updated. The information may be displayed multiple times, depending on the timing.

Corrective Action

No action is necessary.

3.6 When Trying to Open the [Migrate an L-Server] Dialog for an L-Server, it may Indicate Loading but not Become Operable.

Description

When trying to open the [Migrate an L-Server] dialog for an L-Server with unknown status, it may indicate loading but not become operable. The following causes are possible:

a. During L-Server deletion, system failure of the VM management software server or VM management software has occurred

b. During L-Server deletion, system failure of admin server or manager occurs

Corrective Action

Close the [Migrate an L-Server] dialog, when loading takes a very long time.

After that, check that the admin server, manager, VM management software server, or VM management software have been started, and perform the relevant operation.

3.7 Creation of a Virtual L-Server Does not Finish even after a Long Time.

For Solaris Zones

Description

Creation of a virtual L-Server for a Solaris Zone may not finish even after a long time has passed.

- When a VM Host is Solaris 10

In such cases, there is a chance that creation has stopped at the window for parameter entry during the installation of the virtual L-Server's OS.

Log in to the VM host being used to create the virtual L-Server and check the following.

1. Execute the following command and check that the status of the non-global zone being created is "running".

zoneadm list -vc <RETURN>

2. Execute the following command and log in to the non-global zone that was checked in step 1.

After logging in, if the window for parameter entry during OS installation is being displayed, this problem has occurred.

zlogin -C zonename <RETURN>

- When a VM Host is Solaris 11

There is a possibility that the initial boot service of a non-global zone has not been completed, or that a setting in the completion waiting definition file is incorrect. It is also possible that there is a problem in the operation status of a VM guest or VM host, or the network connection status.

Log in to the VM host being used to create the virtual L-Server and check the following.

1. Execute the following command and check that the status of the non-global zone being created is "running".

zoneadm list -vc <RETURN>

2. Execute the following command and confirm the status of the initial boot status of the non-global zone checked in step 1.

zlogin zonename svcs Initial boot service name < RETURN>

zlogin zonename svcprop -p Property name of the script completion flag Initial boot service name <RETURN>

Initial boot service name: The value given in the completion waiting definition file of the initial boot service *Property name of the script completion flag*: The value given in the completion waiting definition file of the initial boot service

If a command fails, or the output result of the second command is something other than "true" or "false", a setting in the completion waiting definition file is incorrect.

For details of the definition file, refer to "8.7.1 Creating Definition Files" in the "Setup Guide CE".

In any other cases, execution of the initial boot service has not been completed.

Corrective Action

The following causes are possible:

- When a VM Host is Solaris 10
 - Check that a network interface that does not exist on the VM host has not been specified.

For details, refer to "8.7.4 Manual Network Configuration" in the "Setup Guide CE".

- Check that a network interface used by another zone has not been specified on the VM host.

For details, refer to "8.7.4 Manual Network Configuration" in the "Setup Guide CE".

- When the L-Server network interface was configured using the DHCP settings, check that the settings to allocate IP addresses from the DHCP server have been configured.
- Check that the IP address allocated to the L-Server has not been allocated in duplicate.

For details on network interfaces, refer to "8.7.4 Manual Network Configuration" in the "Setup Guide CE".

First, perform the "Procedure for Deleting Non-global Zones".

After that, check and correct the parameters specified at the time of virtual L-Server creation, and in the environment, and then perform the operation again.

- When a VM Host is Solaris 11
 - When a setting in the completion waiting definition file is incorrect

Check and correct the settings of the definition file. For details of the definition file, refer to "8.7.1 Creating Definition Files" in the "Setup Guide CE".

After that, perform the "Procedure for Deleting Non-global Zones", and then perform the operation again.

- If there is a problem in the operation status of a VM guest or VM host, or the network connection status

Check the settings of VM guests and VM hosts and the status of the network connection and resolve the problem. After that, perform the "Procedure for Deleting Non-global Zones", and then perform the operation again.

- When execution of the initial boot service has not been completed

Check the reason in the log of the initial boot service of the non-global zone, and resolve the cause of the problem. As a result, if the initial boot service does not finish successfully, perform the "Procedure for Deleting Non-global Zones, and then perform the operation again.

Procedure for Deleting Non-global Zones

- 1. Log out from the non-global zone that was logged in to.
- 2. Stop the non-global zone.
- 3. When a VM host is Solaris 11 and a data disk is specified for a VM guest, delete the created data disk.
 - a. Execute the following command, and confirm the zfs path (the "special" value of fs resources with "zfs" specified for "type"). However, fs resources that have been created through image (zone.conf) specification are excluded.

```
# zonecfg -z zonename info <RETURN>
```

b. When executing the following command, specify the zfs path confirmed in step a and delete the data disk.

```
# zfs destroy obtained zfs path < RETURN>
```

4. Execute the following command to delete the non-global zone.

```
# zoneadm -z zonename uninstall -F <RETURN>
# zonecfg -z zonename delete -F <RETURN>
```

5. Check from the ROR console that the executed process has been completed.

For OVM for SPARC

Description

Creation of a virtual L-Server for OVM for SPARC may not finish even after a long time has passed. In such cases, there is a chance that installation of the virtual L-Server's OS has failed.

Log in to the VM host being used to create the virtual L-Server and check the following.

1. Execute the following command and check that the status of the guest domain being created is "active".

ldm list-domain <RETURN>

- 2. Check the following log file stored in the service domain that provides the virtual console concentrator service.
 - The log file to check

/var/log/vntsd/guest domain's name/console-log

The contents output to the virtual console of the guest domain are recorded in this log file. This enables checking of the progress of installation.

Refer to the Solaris manuals and check whether installation of OS has completed normally.

Corrective Action

If OS installation fails, the following causes are possible.

- The IP address specified at the time of L-Server creation may be being used by another server.
 - Check that the specified IP address is not conflicting with other servers.
- The configuration of CPU, memory size, disks, etc. specified during L-Server creation may not satisfy the requirements for installation of Solaris.

Refer to the Solaris manuals and check whether the specified composition satisfies the requirements for installation of Solaris.

- The installation server may have been inaccessible during installation of the OS.
 - Check whether this product can access the installation server.
- Multiple default gateways may have been specified during creation of an L-Server with a Solaris 10 image specified.
 - Check the default gateway specified during creation of the L-Server.

Moreover, refer to "IP address specified during L-Server creation" in "8.8.8 Advisory Notes for OVM for SPARC Usage" in the "Setup Guide CE", and check whether the default gateway of the admin LAN has been set up.

Perform the following corrective action.

- Refer to the "Procedure for checking the execution status of a job in "BladeLogic Server Automation" of "Message Number 67390", and cancel the job being executed.
- 2. Use the ROR console to check that the operation that was being performed has been completed.
- 3. Perform the operation again, after improving the parameter specified at the time of virtual L-Server creation, and environment.

3.8 After Virtual L-Server Creation is Complete, VM Guests with the Same Name are Created on a Single Host.

Description

During creation of an L-Server, if the admin server or the manager of Resource Orchestrator reboots, or system failure occurs, creation will continue after Resource Orchestrator is restarted. However, after L-Server creation is complete, there may be two VM guests with the same names on a single host.

Corrective Action

Use the following procedure to perform recovery.

1. Connect with VM management software or VM hosts, and check whether two VM guests with the same name have been created.

- 2. If VM guests with the same name were found in step 1, display the ROR console, and link the L-Server with those VM guests. For details, refer to "Chapter 18 Linking L-Servers with Configured Physical Servers or Virtual Machines" in the "User's Guide for Infrastructure Administrators (Resource Management) CE".
- 3. Delete the L-Server linked in step 2.
- 4. Connect with VM management software or VM hosts, and check that one of the VM guests checked in step 1 has been deleted, and there are no other VM guests with the same names.

3.9 When the Status is "unknown", Operations of a Virtual L-Server Fail.

Description

When the status of a virtual L-Server is "unknown", an error may occur when performing the following operations:

- Modifying settings
- Power operations
- Reversion
- Migration of L-Servers between servers

When an error occurs, the following message may be displayed:

When performing operations using the [Resource] tab of the ROR console
 The following message is displayed in the details of the error dialog.

67154 VM Guest:not found

- When performing operations using the rexadm lserver command

The following message is output.

FJSVrcx:ERROR:67154:VM Guest:not found

The following causes are possible:

- a. A VM guest used on the L-Server has been deleted from server virtualization software
- b. A virtual machine for which the configuration parameter (uuid.action) is not configured or a parameter other than keep is configured, has been migrated between servers

For details on the configuration parameters of virtual machines, refer to "9.2.1 Configuration Requirements" in the "Design Guide VE".

c. As backup and restore has been performed, the UUID of the virtual machine has changed

Corrective Action

Use the following procedure to delete the virtual L-Server.

- 1. On the [Resource] tab of the ROR console, check if "-" is displayed for the following items of the virtual L-Server with the status "unknown".
 - [Resource name] in [Allocated Resource Information] on the [Resource Details] tab
 - [Guest name] in [Allocated Resource Information] on the [Resource Details] tab
- 2. Take either one of following corrective actions for the virtual L-Server in step 1 depending on the situation.
 - a. When managing a virtual machine which remains in VM management software as a virtual L-Server again Execute the rexadm Iserver show command, and back up the detailed information of the virtual L-Server.

b. When using a virtual L-Server included in an L-Platform

Release the virtual L-Server from the L-Platform.

3. Delete the virtual L-Server.

When managing a virtual machine that remains in VM management software in Resource Orchestrator again, perform the following procedure.

1. Link the virtual machine with a virtual L-Server.

When the virtual machine is powered on, and the virtual L-Server is imported as an L-Platform under the tenant folder, specify the tenant folder that is the creation destination of the L-Platform as the [Destination folder].

2. Modify virtual L-Server specifications.

Modify the following virtual L-Server specifications based on the detailed information of virtual L-Servers that was backed up in advance.

- L-Server Template Name
- Image Name
- VM Host to Use

Use the rexadm lserver modify command to modify virtual L-Server specifications.

3. Import a virtual L-Server to an L-Platform.

When managing it as an L-Platform, import a virtual L-Server to an L-Platform.



For details on the rexadm Iserver command, refer to "3.6 rexadm Iserver" in the "Reference Guide (Command/XML) CE".

For details on L-Platform management commands, refer to "Chapter 10 L-Platform Commands" in the "Reference Guide (Command/XML) CE".

3.10 Migration of a Virtual L-Server between Servers or Modification of Specifications Fails.

Description

When performing the following operations on a VMware virtual L-Server that is powered on, an error may occur:

- Moving of an L-Server between servers (migration)
- Modification of Specifications (CPU and Memory Size)

When an error occurs, the following message is displayed.

- When performing operations using the [Resource] tab of the ROR console

The following messages are displayed in the event log.

- Moving of an L-Server between servers (migration)

FJSVrcx:ERROR:67385:migrating VM guest failed. vmguest1 migrate from vmhost1 to vmhost2. detail=(vmguest1:validate migrate invalid,vmerrno=150,ip=XXX.XXX.XXXXXXXX)

The following information is displayed in the detailed message.

[ERROR]Insufficient capacity on each physical CPU.

[ERROR]Insufficient capacity on each physical CPU.

- Modification of specifications (memory size)

FJSVrcx:ERROR:67392:modifying VM guest failed. detail=operation failed:customizing vm guest (memory settings)

The following information is displayed in the detailed message.

[ERROR]The host does not have sufficient CPU resources to satisfy the reservation.

- Modification of specifications (CPU)

FJSVrcx:ERROR:67392:modifying VM guest failed. detail=operation failed:customizing vm guest (cpu settings)

The following information is displayed in the detailed message.

[ERROR] The host does not have sufficient CPU resources to satisfy the reservation.

- When performing operations using the rexadm lserver command

When the -nowait option is omitted, the following message is output.

- Moving of an L-Server between servers (migration)

FJSVrcx:ERROR:67385:migrating VM guest failed. vmguest1 migrate from vmhost1 to vmhost2.

detail=(vmguest1:validate migrate invalid,vmerrno=150,ip=XXX.XXX.XXX.XXX)

Reported from the following:

product=-

request=-

message="[ERROR]Insufficient capacity on each physical CPU.

[ERROR]Insufficient capacity on each physical CPU."

- Modification of specifications (memory size)

FJSVrcx:ERROR:67392:modifying VM guest failed. detail=operation failed:customizing vm guest (memory settings) Reported from the following:

product=-

request=-

message="[ERROR]The host does not have sufficient CPU resources to satisfy the reservation."

- Modification of specifications (CPU)

FJSVrcx:ERROR:67392:modifying VM guest failed. detail=operation failed:customizing vm guest (cpu settings) Reported from the following:

product=-

request=-

message="[ERROR]The host does not have sufficient CPU resources to satisfy the reservation."

The following causes are possible:

- The CPU reservation performance configured for the virtual L-Server exceeds the one recognized by the server virtualization software.

Corrective Action

Modify the maximum CPU frequency specified for the image information of the L-Platform template so that it is less than physical CPU performance recognized by the server virtualization software.

Modify the following values specified for the L-Server template so that they are less than the physical CPU performance recognized by the server virtualization software.

- CPU Performance
- CPU Reservation Performance

Only specify the CPU reservation performance when the overcommit function is used in the environment.

For the maximum CPU frequency, CPU performance, and CPU reservation performance, set the CPU performance recognized by the server virtualization software in units of GHz, using the numbers with up to one decimal place.

For already created L-Servers, modify the limit values and reserved values of CPUs using the server virtualization software.

3.11 When Opening the Virtual L-Server Console Screen of VMware vSphere 5.1 or Later, Error 65311 is Output.

Description

When opening the virtual L-Server console screen of VMware vSphere 5.1 or later with automatic configuration (*) of the proxy server by the browser, error 65311 is output. The following messages are displayed in details.

Connection timed out.

- * Note: In Internet Explorer, the following each check boxes enable automatic configuration of the proxy server.
 - Automatic configuration Automatically detect settings
- Automatic configuration Use automatic configuration script

Corrective Action

The automatic configuration function of proxy servers cannot be used on the virtual L-Server console screen of VMware vSphere 5.1 or later.

Specify the address and the port of the proxy server directly in the browser settings.

Refer to the browser's manual for details.

3.12 When Using the VMware vSphere 6 VM Host, Specific Operations Fail.

Description

When using a VMware vSphere 6 VM host, the available memory of the VM pool and the VM host is not correctly calculated. For this reason, operations may fail when all of the following conditions are satisfied:

Operation	Conditions
- Deployment of L-Platforms	a. A VM guest is operated on a VMware vSphere 6 VM host
- Starting L-Servers and L-Platforms	b. An L-Server is created on the VM host in step a.
	c. The memory size + overhead memory size of the L-Server in step b is larger than the memory size of the VM host on VMware in step a.
	d. After creation of the L-Server in step b is complete, it is powered on.
Live migration of L-Servers	a. A VM guest is operated on a VMware vSphere 6 VM host
	b. An L-Server is operated on a VM host other than the VM host in step a.
	c. The memory size + overhead memory size of the L-Server in step b is larger than the memory size of the VM host on VMware in step a.
	d. The L-Server in step b is migrated to the VM host in step a.

In this case, the following messages are displayed in the event log.

- When deploying L-Platforms or starting L-Servers and L-Platforms

FJSVrcx:ERROR:67320:power control error. target= *VM_guest* detail=(poweron:task result error, vmerrno=104,ip=*IP_address*)

- When performing live migration of L-Servers

FJSVrcx:ERROR:67385:migrating VM guest failed. *VM_guest_name* migrate from *source* to *destination*. detail=(*VM_guest_name*,validate migrate invalid,vmerrno=150,ip=*IP_address*)

One of the following is displayed in the detailed message.

[ERROR]The available Memory resources in the parent resource pool are insufficient for the operation.

[ERROR]The host does not have sufficient memory resources to satisfy the reservation.

Corrective Action

The infrastructure administrator should perform the following procedure.

- 1. Check the available memory of the VM host on VMware vCenter Server.
- 2. Move the L-Server to another VM host that has enough available memory for the corresponding L-Server to operate.

3.13 When using VMware as the Server Virtualization Software, Windows Server 2012 Does Not Operate Correctly.

Description

When using VMware as the server virtualization software with Windows Server 2012 as the OS type of an L-Server, the OS may stop operating correctly when the following operations are performed.

- Creation of an L-Server.
- Modification of the configuration of an L-Server (attaching of disks)

Corrective Action

The infrastructure administrator should configure the SCSI controller definition file.

For details of the definition file, refer to "SCSI Controller Definition File" in "8.2.1 Creating Definition Files" in the "Setup Guide CE".

Chapter 4 Operations for Images or Cloning Images

This chapter explains the operations to use when troubleshooting images or cloning images.

4.1 An Error Occurs When Performing Backup and Restore of System Images or Collection and Deployment of Cloning Images. [Physical Servers] [Hyper-V]

If the admin server IP address that was set up in the [Admin Server Registration] window described in "2.2.2 Installation [Windows] [Hyper-V]" or "2.2.3 Installation [Linux] [VMware] [Xen] [KVM]" in the "Setup Guide VE" is incorrect, the following message may be displayed when collecting or deploying cloning images, or when backing up or restoring system images.

FJSVrcx:ERROR:68295:deployment engine error:

no response from the managed server node. invalid BIOS setting found detail

detail

The information describing error details is displayed.

Use the following procedure to confirm and correct the problem.

[Windows] [Hyper-V]

1. On the managed server, select [start]-[Run], and then execute the following command.

Installation_folder\Agent\scw\config.bat

The IP address of the admin server that has been set up and the port settings are displayed.



Note that the "Deployment Server" referred to in this section actually refers to the admin server.

In the Deployment Server field, check that either the admin server IP address or the server name is correctly set up.
If the settings are incorrect, change the value displayed and click [OK].



When entering the server name, check that the IP address on the managed server side of the admin server can be resolved from the server name.

In the confirmation dialog asking to restart the client agent, click the [Yes] button.

3. Click [Yes].

[Linux]

1. Open the /etc/scwagent.conf file on the managed server.

Confirm the admin server IP address and the settings of the port currently being used.

2. In the server ip field, check that either the admin server IP address or the server name is correctly set up.

If the settings are incorrect, edit scwagent.conf directly, and then restart the managed server.

After resolving the cause of the error, execute the operation again as described in step 4 of "Message number 68295" in "Messages".

If the settings are found to be satisfactory, take the corrective action described in "Message number 68295" in "Messages".

4.2 An Error Occurs during Cloning after the Manager is Reinstalled.

This section explains how to troubleshoot cloning issues that occur after re-installing the manager.

When performing a cloning image operation (collection or deployment) on a managed server that was already registered on the manager before re-installation, the following problem may occur. The manager and agent certificates may not match, resulting in the admin server being unable to communicate with its managed server. In such a case, trying to deploy or collect an image to or from the managed server will fail. This problem occurs when the following conditions are met.

- The manager was re-installed, but its certificate store was not properly backed up, as described in "11.1.2 Uninstallation [Windows Manager]" or "11.1.3 Uninstallation [Linux Manager]" in the "Setup Guide VE"
- Both the manager and agent were re-installed (and their certificates renewed), but a cloning image that was collected before the re-installation has been deployed, thus restoring an outdated agent certificate on the managed server

Use the following procedure to correct the problem.

To avoid the same certificate problem, recollect the cloning images which include the cause of the problem after the problem has been corrected.

Checking the Certificates

How to check certificates

1. Stop the manager and then display SSL certificate data by executing the following commands on the admin server.

[Windows Manager]

```
>"Installation_folder\SVROR\Manager\bin\rcxadm" mgrctl stop <RETURN>
>"Installation_folder\SVROR\Manager\bin\rcxadm" certctl list <RETURN>
```

[Linux Manager]

```
# /opt/FJSVrcvmr/bin/rcxadm mgrctl stop <RETURN>
# /opt/FJSVrcvmr/bin/rcxadm certctl list <RETURN>
```

For details on the command, refer to "5.4 rexadm certetl" or "5.11 rexadm mgretl" in the "Reference Guide (Command) VE".

Example Results

Truststore:

Keystore type: jks
Keystore provider: SUN
The key store includes four entries.
client2,May,10,2007, trustedCertEntry,
Certificate fingerprint (MD5): 0F:4E:1C:DB:19:AE:3B:82:9D:74:93:6C:46:D8:7C:D2
client1,May,10,2007, trustedCertEntry,
Certificate fingerprint (MD5): 9D:99:ED:88:C0:8F:32:26:60:FA:4C:96:A2:34:5A:45
server4,May,11,2007, trustedCertEntry,
Certificate fingerprint (MD5): DC:E3:19:59:08:6D:C4:AD:B4:C7:F6:5C:E1:52:0A:1A (*1)
server3,May,11,2007, trustedCertEntry,
Certificate fingerprint (MD5): 9B:EB:94:58:90:E8:09:BE:BD:FA:14:83:9D:87:3A:E4
Keystore:

```
Keystore type: jks
Keystore provider: SUN

2 entries are included in the keystore.

client, 2007/05/11, keyEntry,
Certificate fingerprint (MD5):
AA:55:85:54:6B:57:80:4F:8C:6E:2E:AA:7C:77:DB:F6 (*2)
server, 2007/05/11, keyEntry,
Certificate fingerprint (MD5):
14:48:31:68:C9:CA:66:E1:E0:34:8A:FC:1C:17:19:EF
```

 $2. \ \ \, Stop \, the \, agent \, and \, display \, SSL \, certificate \, data \, by \, executing \, the \, following \, commands \, on \, the \, managed \, server \, where \, the \, error \, occurred.$

[Windows]

```
>"Installation_folder\Agent\bin\rcxadm" agtctl stop <RETURN>
>"Installation_folder\Agent\bin\rcxadm" certctl list <RETURN>
```

[Linux]

```
# /opt/FJSVrcxat/bin/rcxadm agtctl stop <RETURN>
# /opt/FJSVrcxat/bin/rcxadm certctl list <RETURN>
```

[Solaris]

```
# /opt/FJSVrcvat/bin/rcxadm agtctl stop <RETURN>
# /opt/FJSVrcvat/bin/rcxadm certctl list <RETURN>
```

For details on the command, refer to "5.2 rexadm agtetl" or "5.4 rexadm certetl" in the "Reference Guide (Command) VE".

Example Results

3. Check the fingerprint that is contained in the agent Keystore.

As shown in the example in (*1), check that the fingerprint that is contained in the agent Keystore is also contained in the manager Truststore that is shown in "Example Results" of step 1.

If it is not, refer to "Corrective Action" to take proper corrective action.

4. Check the fingerprint that is contained in the agent Truststore.

As shown in the example in (*2), check that the fingerprint that is contained in the agent Truststore is also contained in the manager Keystore that is shown in "Example Results" of step 1.

If it is not, refer to "Corrective Action" to take proper corrective action.

Corrective Action

1. Execute the following commands on the managed server for which the problem occurred to re-initialize its SSL certificate, and restart its agent.

[Windows]

```
>"Installation_folder\Agent\bin\rcxadm" certctl init <RETURN>
>"Installation_folder\Agent\bin\rcxadm" agtctl start <RETURN>
```

[Linux]

```
# /opt/FJSVrcxat/bin/rcxadm certctl init <RETURN>
# /opt/FJSVrcxat/bin/rcxadm agtctl start <RETURN>
```

[Solaris]

```
# /opt/FJSVrcvat/bin/rcxadm certctl init <RETURN>
# /opt/FJSVrcvat/bin/rcxadm agtctl start <RETURN>
```

2. Execute the following command on the admin server to start the manager.

[Windows Manager]

```
>"Installation_folder\SVROR\Manager\bin\rcxadm" mgrctl start <RETURN>
```

[Linux Manager]

```
#/opt/FJSVrcvmr/bin/rcxadm mgrctl start <RETURN>
```

4.3 After the cloning image collection is completed, an unnecessary image is created on the VM management software.

Description

During cloning image collection of a virtual L-Server, if the admin server or the manager of Resource Orchestrator reboots, or system failure occurs, cloning image collection will continue after Resource Orchestrator is restarted. However, an unnecessary image might be created on the VM management software.

Corrective Action

Use the following procedure to perform recovery.

1. Log on to the admin server with OS administrative privileges.

2. Display the list of cloning images by executing the following command.

[Windows Manager]

>"Installation_folder\SVROR\Manager\bin\rcxadm" image list -type cloning <RETURN>

[Linux Manager]

 $\# \ /opt/FJSVrcvmr/bin/rcxadm \ image \ list \ -type \ cloning < RETURN>$

3. Confirm whether the image of the following name exists in the list of the image displayed in step 2.

image name_index



- In images not used in Resource Orchestrator, the first character of the image name is something other than a slash ("/"). Check that the image is not used in Resource Orchestrator.

- *index* indicates the number one or higher.
- 4. When there were images collected before or after restarting of Resource Orchestrator in step 3, delete those images by executing the following command.

[Windows Manager]

>"Installation folder\SVROR\Manager\bin\rcxadm" Image delete -name image name_index -version version <RETURN>

[Linux Manager]

/opt/FJSVrcvmr/bin/rcxadm image delete -name image name_index -version version <RETURN>

Chapter 5 Operations for Snapshots

This chapter explains the operations to use when troubleshooting snapshots.

5.1 Snapshots which cannot be Referred to or Operated from Resource Orchestrator Remain on VM Management Software.

Description

Even if snapshot collection fails due to problems other than those involving VM management software, such as the manager stopping, collected snapshots may exist on VM management software.

Corrective Action

Start the manager, ensure that the collection of snapshots has been completed, and then use the following procedure for restoration:

- 1. Display the VM management console. Check if there are multiple snapshots whose *L-Server_host_name* and *Version* are the same among the snapshots whose name is RCX_*L-Server_host_name*@ *Version*.
- 2. If there were multiple snapshots in step 1, delete snapshots other than latest ones from the VM management console. For details on how to delete snapshots, refer to the server virtualization software manual.

5.2 After Restarting vCenter Server Services, Snapshots of L-Server are not Managed.

Description

When restarting services of vCenter Server registered as VM management software, L-Server snapshots using the vCenter Server may no longer be managed by Resource Orchestrator.

FJSVrcx:INFO:21162:(version=version):snapshot image is lost.

The version of the snapshot which is not managed is displayed in version.

The snapshot identification information notified by vCenter Server before and after restarting of the vCenter Server services may differ. Therefore, Resource Orchestrator determines that the snapshots are no longer managed by vCenter Server, and deletes the snapshot identification information. Snapshots which are not managed by Resource Orchestrator cannot be recognized. However, snapshots exist on vCenter Server.

Corrective Action

Operate snapshots which cannot be recognized from the vSphere Client (GUI for vCenter Server). When operation is not possible, contact your vCenter Server administrator.

To determine the relevant snapshots, check VM guest snapshots managed by the vCenter Server which had its services restarted. Snapshots created by Resource Orchestrator are named as follows: Snapshots with names in this format that are not recognized by Resource Orchestrator are the relevant snapshots.

RCX_L-Server_host_name@ version

L-Server_host_name: a host name for the L-Server which holds relevant snapshots is displayed.

The version of the snapshot displayed in the message is displayed in version.

Delete unnecessary snapshots from vSphere Client.

5.3 After the operation of restoring a snapshot for virtual L-Server, the number of disk resources changes. [KVM]

Description

Snapshot of KVM has virtual machine configuration.

The virtual machine configuration contains disk resource configuration(*).

In case that number of disk resource is not the same between the virtual L-Server to restore and the snapshot information, the number of disk resources changes after the operation of restoring a snapshot for virtual L-Server.

(*) This means the following.

Number, type and filepath of qcow2 image files corresponding to disk resources created from virtual storages automatically. And, number, type and filepath of raw devices or partitions corresponding to disk resources that were created in advance.

Corrective Action

Handle appropriately on VM hosts.



- 1. Delete unnecessary qcow2 image files in a shared directory on a NFS server.
- 2. Attach again qcow2 image files in a shared directory on a NFS server, raw devices or partitions.

Refer to the RHEL-KVM manual for how to attach to VM guests.

For details, refer to the following sections in the "Red Hat Enterprise Linux 6 Virtualization Administration Guide".

Chapter 14. Managing guest virtual machines with virsh

URL: https://access.redhat.com/site/documentation/en-US/Red_Hat_Enterprise_Linux/6/html/Virtualization_Administration_Guide/index.html

5.4 Snapshot for virtual L-Server fails and error message shows snapshot is unsupported. [KVM]

Description

Snapshot for virtual L-Server of KVM fails and error message may show snapshot is unsupported.



FJSVrcx:ERROR:67397:failed to create image. detail=(libvir: QEMU Driver error: unsupported configuration: internal snapshot for disk fda unsupported for storage type raw,vmerrno=400,ip=192.168.3.63,host=192.168.3.63)

Corrective Action

Snapshot for virtual L-Server fails by reason of that VM guest is attached with virtual floppy disks.

After detaching virtual floppy disks, execute the operation again.

Chapter 6 Operations for VM Management Software or Server Virtualization Software

This chapter explains the operations to use when troubleshooting VM management software or server virtualization software.

6.1 Operations do not Complete due to Rebooting of a VM Host (Admin OS) or Communication Failure. [Xen] [KVM]

Description

When a VM host (Admin OS) is rebooted using reboot or panic, or when communication failure occurs between the manager of Resource Orchestrator and VM host, the following operations may not be completed:

- Creating and deleting an L-Server
- Moving L-Servers between servers (migration)
- Collecting cloning images

Corrective Action

Restart the Resource Orchestrator manager.

6.2 The Error, vmerrno=104, Occurs during Operations for Virtual L-Servers, and .NET Runtime Errors are Recorded on the SCVMM Server. [Hyper-V]

Description

In response to operations for virtual L-Servers on Hyper-V, the following message may be displayed, as the detailed error number 104(vmerrno=104) has failed.

FJSVrcx:ERROR:67390:creating VM guest failed. detail=(PowerShell script execution error :task result error.,vmerrno=104,ip=*IP_address*,host=*VM_host_IP_address*)

The parts "67390" and "creating VM guest failed" may change to different messages.

One of the following .NETRuntime errors is recorded in the application event log on the SCVMM server.

Level: Error

Source: .NET Runtime

ID: 0

Message(part):

.NET Runtime version: 2.0.50727.5456 - Application ErrorApplication has generated an exception that could not be handled.

Level: Error

Source: .NET Runtime

ID: 0

Message(part):

.NET Runtime version: 2.0.50727.5456 - Application Error

Level: Error

Source: .NET Runtime

ID: 0

Message(part):

 $. NET\ Runtime\ version: 2.0.50727.5456-No\ debugger\ found.\ Registered\ JIT\ debugger\ is\ not\ available.$

Level: Error

Source: .NET Runtime

ID: 1023 Message:

.NET Runtime version 2.0.50727.5456 - Fatal Execution Engine Error (000007FEF9E89357) (800703e9)

This event may occur as the memory size necessary for correct operation cannot be reserved for the PowerShell host process operating on the SCVMM server.

Corrective Action

Configure the maximum memory size (MaxMemoryPerShellMB) that can be reserved by each Shell to a value larger than the current one, and check if the error can be avoided.

For details on how to modify the settings, refer to the procedure described in "E.2.5 Pre-setup Preparations in Hyper-V Environments" in the "Design Guide CE".

The necessary memory size differs depending on the sizes and configurations of managed targets. Therefore, if an error still occurs even when the settings have been modified to 1024 MB, set larger values (ex. 2048 MB) and check if the error can be avoided.

6.3 Operations of a Virtual L-Server Are not Completed and an Error Occurs. [KVM]

Description

An error may occur when operations of a virtual L-Server are not completed due to failure of the information update process on a KVM host

In this case, "timeout occurred" is displayed for detail as follows:

FJSVrcx:ERROR:67390:creating VM guest failed. detail=timeout occurred

Corrective Action

Perform corrective action referring to "Messages".

If the problem occurs again after performing those corrective actions, perform the following corrective actions:

Register all KVM hosts which share a virtual storage as storage management software.

For details on the procedure for registration as storage management software, refer to "5.17 rexadm storagemgr" in the "Reference Guide (Command/XML) CE".

Chapter 7 Operations for ROR Console

This chapter explains the operations to use when troubleshooting the ROR console.

7.1 The Values on the [Resource List] Tab are "?", and on Other Tabs, "There is no information to display." is Displayed.

Description

In the following cases, on the ROR console, the values of resources on the [Resource List] tab will be "?", and on the other tabs, "There is no information to display." is displayed.

- When a user who has had all of their access scope settings deleted logs in to the ROR console
- When a user who has had all of the resources in their set access scope deleted logs in to the ROR console
- When the access scope settings of a user are all deleted while the user is logged in to the ROR console
- When all the resources in the access scope settings of a user are all deleted while the user is logged in to the ROR console



Example of Panel Display Trouble

- [Resource List] Tab
 The values of resources will be "?".
- Other Tabs

"There is no information to display." is displayed.

Corrective Action

Log off from the ROR console as the relevant user, then configure the range of the access for the user so that the relevant resources exist. Log in to the ROR console again and the information is displayed correctly.

For details on the access scope settings, refer to "5.1 Restricting Access Using Roles" in the "Design Guide CE".

7.2 When Clicking [OK] Repeatedly, the Same Definition is Added across Multiple Lines.

Description

On the ROR console, when [OK] is clicked repeatedly, the same definition may be added across multiple lines on the screen.

- When [OK] is clicked repeatedly in the [Disk Definitions] dialog. This dialog is displayed from the [Disk] tab in the [Create an L-Server] dialog or the [Modify L-Server's definition] dialog
- When [OK] is clicked repeatedly in the [Add a NIC] dialog. This dialog is displayed from the [Network] tab in the [Create an L-Server] dialog or in the [Modify L-Server's definition] dialog
- When [OK] is clicked repeatedly in the [Excluded IP Setting] dialog. This dialog is displayed from the [Create a network resource] dialog or the [Modify a network resource] dialog

Corrective Action

When unnecessary definitions are added, delete them from the dialog using the following procedure.

- For the [Disk] tab in the [Create an L-Server] dialog or in the [Modify L-Server's definition] dialog
 - 1. Select the radio button corresponding to the unnecessary disk definitions.
 - 2. Click the [Delete] button.

The unnecessary definitions are deleted.

- For the [Network] tab in the [Create an L-Server] dialog or in the [Modify L-Server's definition] dialog Clicking the [Delete] button deletes the unnecessary definitions.
- For the [Create a network resource] dialog or the [Modify a network resource] dialog
 - 1. Select the unnecessary definitions from the "Exclusion IP range" list.
 - 2. Click the [Delete] button.

The unnecessary definitions are deleted.

7.3 The Screen Layout Collapses, or the Error Dialog "Establishing connection with admin server failed." is Displayed.

Description

When using a web browser while logged in to the ROR console, if the cookies stored in the browser are deleted, the session information (such as user IDs) of the ROR console contained in the cookies also deleted.

As a result, the screen layout may collapse, or the error dialog "Establishing connection with admin server failed." may be displayed.

Corrective Action

Perform the following corrective actions:

- 1. Press [F5], or click the [Refresh] button on the web browser.
- 2. Log in again from the Login window. The ROR console is displayed.

7.4 The Progress of all Operations Including the Operation being Executed is Complete.

Description

When restarting a manager or admin server, the Recent Operations on the ROR console may display Completed for all operations including the operation being executed.

As a result, operations in the completed state may output the following message and abort.

FJSVrcx:ERROR:67210:*Resource_name*:is busy

Corrective Action

Since there is no way to check the progress of ongoing processes displayed as Completed, restart the manager or admin server, wait for a short time, and then perform the operation again.

7.5 Display of Resource Information Collapses.

Description

While updating the window of the [Resource] tab of the ROR console, if resource information is hidden or another tab switched to, update will continue to be performed for the hidden area.

At that time, because the Web browser cannot handle modification of the size of the window being updated or the coordinate information, after a certain length of time (after regular update of resources), the display of resource information that was updated may collapse.

Corrective Action

Perform the following corrective actions:

- When there is update information for resources
 - Update will be performed automatically during the regular update.
- When there is no update information for resources
 - Click the page switch button of the resource information.
- When there is no update information for resources, and no page switch button for the resource information Select a different resource from the tree.

7.6 Nothing may be Shown in the List of the [Resource] Tab.

Description

In the [Resource] tab of the ROR console, if a resource is deleted when displaying the last page of the list in the main panel, nothing may be shown in the list

Corrective Action

Perform the following corrective actions:

- Select another resource on the tree
- Switch to a different tab in the main panel

7.7 The Member Ports Belonging to the Link Aggregation are not Updated.

Description

For a PY CB Eth Switch/IBP 10Gbps 18/8 or PY CB Eth Switch 10/40Gb 18/8+2 LAN switch blade, the LLDP and VLAN settings of the member ports of the link aggregation may mean that the information for the member ports of the link aggregation will not be updated.

Corrective Action

Perform the following corrective actions:

1. LLDP settings of the member ports belonging to the link aggregation Enable the LLDP of the member port.

When doing so, disable the [VLAN Name] in the LLDP options, and enable the other items.

- VLAN settings of the member ports belonging to the link aggregation
 Make the Untagged VLAN and Tagged VLAN settings for all member ports belonging to the link aggregation the same.
- 3. Update the information of the LAN switch blade

 Click the [Update] button of the LAN switch blade on the server resource tree in the ROR console.

7.8 The Error Message "Internet Explorer cannot display the webpage" is Displayed.

Description

When the following combinations of OSs and browsers are used, due to effects of the OS operation, when logging in to the ROR console the error message "Internet Explorer cannot display the webpage" may be displayed.

- Windows Server 2003 + InternetExplorer8
- Windows Server 2008 + InternetExplorer8

Corrective Action

Perform one of the following corrective actions:

- Connect to the ROR console using a combination of OS and Web browsers other than those above
- When this trouble occurs, reload the web page
- Specify an IP address instead of an FQDN for the URL

7.9 Display of Resource Information Collapses.

Description

While updating the window of the [Resource] tab of the ROR console, if resource information is hidden or another tab switched to, update will continue to be performed for the hidden area.

At that time, because the Web browser cannot handle modification of the size of the window being updated or the coordinate information, after a certain length of time (after regular update of resources), in the [Resource] tab of the ROR console the display of resource information that was updated may collapse.

Corrective Action

Perform the following corrective actions:

- When there is update information for resources
 - Update will be performed automatically during the regular update.
- When there is no update information for resources
 - Click the page switch button of the resource information.
- When there is no update information for resources, and no page switch button for the resource information
 Select a different resource from the tree.

7.10 Login to the ROR Console is not Possible even when a Correct User ID and Password are Used.

Description

- If SSO (ServerView Single Sign-On) is selected when installing Resource Orchestrator, automatic registration of the directory service with Resource Orchestrator may fail for the following reason.
 - When communication with ServerView Operations Manager is not possible
 - When registration of a directory service with Resource Orchestrator fails, an authentication error will occur even in a correct user ID and password are entered, and you will be unable to log in.
- When using Single Sign-On (SSO) authentication in Active Directory with a redundant configuration
 - User information may not have been synchronized between domain controllers because an error occurred in one Active Directory.

Corrective Action

Refer to the following, and check if a directory service is registered with Resource Orchestrator.

- If SSO (ServerView Single Sign-On) is selected when installing Resource Orchestrator
 - For Virtual Edition
 - "13.1.1.3 Checking Directory Service Connection Information" in the "Operation Guide VE"
 - For Cloud Edition
 - "8.10.1.3 Checking Directory Service Connection Information" in the "Operation Guide CE"

If directory service is not registered, refer to the following and perform registration again.

- For Virtual Edition
 - "5.3 rexadm authetl" in the "Reference Guide (Command) VE"
- For Cloud Edition
 - "5.4 rcxadm authctl" in the "Reference Guide (Command/XML) CE"
- When using Single Sign-On (SSO) authentication in Active Directory with a redundant configuration

Restore the Active Directory that an error occurred in and then synchronize user information between domain controllers.

7.11 "Authentication Failure Trap" or "user authentication failure" is Periodically Displayed in the [Event] Tab.

Description

When SNMP communication using an unauthenticated community name is performed with the device displaying the message, one of the following messages is output in the event log.

"Authentication Failure Trap" or "user authentication failure"

Corrective Action

Check the following:

- Check the SNMP settings of the device for which the message is displayed, considering the following points.
 - That the SNMP community name matches the one that is registered with ROR
 - That the configuration has been performed to enable SNMP communication from the admin server (It has not been configured to only allow local access)
 - That the necessary configuration of the device has been performed



For PRIMERGY Servers with ServerView Linux Agents Installed

Perform configuration to allow access using the SNMP community name (public) from local hosts, for internal communication.

[Linux]

If it is not already specified, add the following to /etc/snmp/snmpd.conf.

com2sec svSec localhost public

- When the SNMP settings for ROR and the device are correct, it is possible that access has been performed using something other than ROR, with a different SNMP community name. Check the SNMP log to find the relevant device or software.

7.12 For the Console Screen of VMware vSphere 5.1 or later, even if the Connection of the Device Fails, the Result is not Reflected in the List of Devices.

Description

When using multiple L-Server console screens (VMware vSphere 5.1 or later) to connect to the same guest OS device, later attempts to connect to the same guest OS device will fail. However, the message "In use on another console screen" is not displayed.

Corrective Action

The connection status is not reflected in the device list when connecting to the same guest OS device. Wait a little while and then click the [Update] icon to obtain the latest connection status.

7.13 The Error Details are not Correctly Displayed in the Error Dialog even if the Operation in the Console Screen (VMware vSphere 5.1 or Later) has Failed.

Description

If the network connection between the VMware vCenter Server and a VMware vSphere Client is lost while any of the following operations are being performed, the error message may be become an empty string ("") or "Error" may be displayed in the Error Dialog

- Connecting to the L-Server console screen (VMware vSphere 5.1 or later)
- operation within the L-Server console screen

Corrective Action

- Check the network connection between the VMware vCenter Server and the VMware vSphere Client.
- Check that there are no problems with the settings of the browser.

Check whether the URL of the ROR console has been added to the "Trusted sites" of the web browser. For details, refer to "Chapter 2 Login and Logout" in the "User's Guide for Infrastructure Administrators CE"

7.14 Server Resources Registered in the Server Tree are not Displayed.

Description

When the following operation is performed using the PRIMEQUEST 2000 series, server resources registered in the server tree may not be displayed.

- Modification of the Extended Partition configurations of the PPAR partition using PRIMEQUEST MMB after a server has been registered.

Corrective Action

Return the Extended Partition configurations of the PPAR partition to their original state using the PRIMEQUEST MMB. Delete the server from the managed servers using the ROR console, and then modify the partition configurations using the MMB. After modifying the partition configurations using the MMB, reregister the server.

7.15 The Confirmation Dialog is not Displayed after Logout is Performed.

Description

When operating the ROR console in an environment that satisfies all of the following conditions, the confirmation dialog may not be displayed and the upper part of the ROR Console may not be displayed correctly even if the [Logout] and the [Option] buttons in the upper-right of the ROR console are pressed.

- Uses Windows 7 for the OS.
- Internet Explorer 11 is being used for the browser.
- The [L-Platform] tab or the [Template] tab is being displayed.

Corrective Action

Click the close button of the browser to close the ROR console.

When logging in to the ROR console again, close all open browser windows.

Then open a new browser window and log in to the ROR console.

7.16 The Error Screen "Failed to authenticate the user" is Displayed in the [Requests] Tab.

Description

When configuring the email settings to use during the application process, if the manager is started in a configuration where it cannot connect to the SMTP server, the application process function will not start.

If the [Requests] tab is opened while the application process function is not running, the error screen "Failed to authenticate the user" will be displayed.

Corrective Action

Confirm that it is possible for the admin server to connect to the SMTP server, and then restart the OS of the admin server.

Chapter 8 Operation of L-Platform Management Functions

This chapter explains strategies for handling problems in the operation of L-Platform management functions.

8.1 VSYS10098 Error when Using [L-Platform Template] window or L-Platform Template Management Command

The messages that are output are as follows:

At [L-Platform Template] window operation:

ERROR VSYS10098 SQL error.[Connection refused. Check that the hostname and port are correct and that the postmaster is accepting TCP/IP connections.]

At L-Platform template management command operation:

```
TPLCnnnnn:<Message>(VSYS10098) (*)
```

Cause

The cause is one of the following:

- The database is not started.
 A WorkUnit (RCXCT_VSYS) of the L-Platform management function API was probably started while the database was stopped.
- The database is not started.In the state where a WorkUnit is started, probably only the database has been stopped.

Action

Take action 1 in response to cause 1 and action 2 in response to cause 2.

1. Check whether the following message has been output to the trace log (vsys_trace_log) of the L-Platform management function:

```
1) VSYS10098 and VSYS00000 have been output alternately, and
2) After 1), VSYS00001 has been output, and
3) After 2), VSYS00003 has been output.
```



```
[2012-05-25 11:24:17,428] ERROR VSYS10098 SQL error.[Connection refused. Check that the hostname and port are correct and that the postmaster is accepting TCP/IP connections.]
[2012-05-25 11:24:17,428] WARN VSYS00000 Failed to connect to the database. Retrying...
...
(VSYS10098 and VSYS00000 are repeatedly output alternately)
...
[2012-05-25 11:26:41,441] ERROR VSYS10098 SQL error.[Connection refused. Check that the hostname and port are correct and that the postmaster is accepting TCP/IP connections.]
[2012-05-25 11:26:41,441] ERROR VSYS00001 Failed retry. The database may not be ready.
[2012-05-25 11:26:41,441] ERROR VSYS00003 VSYS API Startup is terminated.
```

Start the database according to the action in "VSYS00001" in the "Messages"

2. Check whether the following message has been output to the trace log (vsys_trace_log) in the L-Platform management function:

```
1) VSYS10098 has been output, and
```

^{*} Note: nnnnn is the message number. Refer to "Chapter 18 Messages Starting with TPLC" in the "Messages" for details.

^{2) &}quot;Connection refused. Check that the hostname and port are correct and that the postmaster

is accepting TCP/IP connections." has been output as a detailed error message of 1), and 3) After 1), a Java exception display (stack trace) has been output.



```
[2012-05-25 11:45:13,648] ERROR VSYS10098 SQL error.[Connection refused. Check that the hostname and port are correct and that the postmaster is accepting TCP/IP connections.] org.postgresql.util.PSQLException: Connection refused. Check that the hostname and port are correct and that the postmaster is accepting TCP/IP connections. at org.postgresql.core.v3.ConnectionFactoryImpl.openConnectionImpl(ConnectionFactoryImpl.java: 136) ...
(Java stack trace is output.)
```

Start the database according to the action in "VSYS00001" in the "Messages".

8.2 is 20147 Error when Starting or Stopping a WorkUnit (Linux Manager)

Cause

A Systemwalker Centric Manager process (opasyslog) is not started.

Action

This product operates in the Interstage Application Server WorkUnit. Interstage Application Server provides a function for linking with Systemwalker Centric Manager, and if the system is unable to link with the Systemwalker Centric Manager process (opasyslog), Interstage Application Server outputs following message.

```
UX:IS: ERROR: is20147:The linkage with SystemWalker failed Error information(vopfmt:-1)
```

Ignore this message if the environment is one in which the Systemwalker Centric Manager process (opasyslog) has been stopped intentionally. If it has not been stopped intentionally, check that Systemwalker Centric Manager is operating normally and then remove the cause of opasyslog not starting.

If the above is not the cause, implement actions according to the "Interstage Application Server" manuals.

8.3 The Values Set in the VM Specific Information Definition File are not Updated in the [L-Platforms] tab of the ROR Console

Cause

If an overcommit value has not been set for the L-Server template selected in "type" on the [Reconfiguration] page of the L-Platform [Subscription] window, then the values set in the VM specific information definition file will not be used, even if the file is used. Rather, the following values are applied:

[VMware]

- CPU Reserved: 0.1GHz

- CPU Shares: 1000

- Memory Reserved: Memory Size

- Memory Shares: Memory Size * 10240

[Hyper-V]

- CPU Reserved: 0.1GHz

- CPU weight: 100

- Memory RAM: Memory Size

- Memory weight: 5000

[Citrix XenServer]

- CPU Weight: 100

- Memory Reserved: Memory Size

Action

In L-Server templates used on L-Platforms, set the overcommit value in the L-Server template rather than in a VM specific information definition file.

Chapter 9 L-Platform Operations

This chapter explains strategies for handling problems with L-Platform operations.

9.1 Deployment Is Successful but Connection Cannot Be Performed Using IP Address of L-Server

Cause

The cause is one of the following:

- These scenarios occur when image creation is implemented repeatedly after a Windows L-Server is deployed.
 This product uses Sysprep for Windows images. The number of times it can be used is limited, so image creation cannot be implemented repeatedly.
- 2. There is a possibility that Sysprep is failing due to software installed on the L-Server which collected the image.

Action

Take action 1 in response to cause 1 and action 2 in response to cause 2.

- 1. See whether the deployment is successful, but connection cannot be performed using the IP address of the L-Server (Windows) displayed in the [L-Platforms] tab of the ROR console. Also, server virtualization software such as VMware has a function that allows connection to an L-Server using a console instead of an IP address. Use this function to login to Windows. If this happens, check whether any of the following are occurring:
 - Password resetting is requested, and
 Login is impossible because password resetting fails.
 - Password resetting is requested, and

Login is successful but the correct IP address has not been set.

Reinstall Windows to perform image re-creation.

2. Check if the message "Windows could not finish configuring the system" is displayed.

Identify the software which is the cause and do not install it. In order to identify the source of the problem, install the operating system and programs one by one and check the point where the problem occurs. However, the problem may occur even if the software identified as the cause of the problem is uninstalled. Ensure the process is performed starting from installing the operating system.

9.2 When a Tenant Administrator or a Tenant User Tries to Perform an Operation such as Starting or Stopping a Server, a Message Saying the Right is not Granted is Displayed, and the Operation Fails

A message similar to the one below is displayed (the exact message varies depending on the operation):

"Processing can't be continued because the right to stop the server is not granted."

Cause

The cause is one of the followings:

1. The user's rule does not have access authority for the operation.

2. The right of the user to operate the L-Platform has not been set correctly.

Action

Ensure that the access authority for the operation is set.

Refer to "Chapter 3 Configuring Users and Customizing Roles" in the "User's Guide for Infrastructure Administrators (Resource Management) CE" for details.

- 1. If the access authority is not set, the operation is expected to fail. If it is necessary, add the authority to the role.
- 2. If the access authority is set, the right to operate the L-Platform may have not been set successfully. The right to operate the L-Platform can be set as follows:
 - a. Log in as a dual-role administrator or an infrastructure administrator, and open the [Tenants] tab.
 - b. List the L-Platforms of the tenant that the L-Platform to set the right belongs to.
 - c. Change the owner of the L-Platform to a user with the tenant administrator role.
 - d. Change the owner back to the user of the failed operation.

9.3 Error 67392 is Output when L-Platform Reconfiguration Fails

Cause

If the following message is output to vsys_batch_log, there is a possibility that the memory capacity for a server was reduced during operation.

```
VSYS20003: Status of task is error in CBRM response. task_id=xxxxx, error_code=67392, message=modifying VM guest failed. detail=operation failed:customizing vm guest (memory settings)
```

The memory capacity of the server is automatically changed to the maximum value of the pool during the reconfiguration if the maximum physical memory capacity of the VM pool is less than the memory capacity of the server included in the L-Platform when canceling a VM host, for example.

Action

Take one of the following actions:

- 1. Re-register the VM host whose registration was canceled.
- 2. Stop the servers that have memory capacities exceeding the maximum physical memory capacity of the VM pool. This will change the memory capacity of the server to the maximum physical memory capacity of the VM pool.

9.4 Error VSYS10096 is Output when Subscribing or Reconfiguring an L-Platform

Cause

The cause is one of the following:

1. If the following message is output to vsys_trace_log, there is a possibility that image information has not been synchronized.

```
VSYS10096 Status[404] returned from CBRM is illegal.[code: 67154][message: server image link id=xxxxx:not found]
```

1. If the following message is output to vsys_trace_log, there is a possibility that two or more NICs have been defined in the L-Server template.

VSYS10096 Status[412] returned from CBRM is illegal.[code:62501][message:NICs.NIC.NetworkLink:is required]

Action

Take action 1 in response to cause 1 and action 2 in response to cause 2.

- 1. The above error occurs if there is no cloning image associated with a piece of image information. Synchronize the image information using the following procedure:
 - a. Open the [Templates] tab in the ROR console and display the image information.
 - b. If a warning icon is displayed with the image information in the preceding step, it means that the cloning image has been deleted.
 - c. In this case, create an L-Server with the same OS and software installed as the cloning image had, then from the L-Server recollect the cloning image with the name displayed in the [Cloning image] column of the image information. This task is not required if there is no warning icon.
 - d. Hide all L-Platform templates using image information.
 - e. Click the [Synchronize] button for the image information.
 - f. If the [Synchronize] button is disabled, click the reload button for the image information.
- 2. The above error is output when you specify a number of NICs that is less than the number of NICs defined in the L-Server template when creating a server in L-Platform management.

Set to 1 the number of NICs defined in the L-Server template used in L-Platform management.

9.5 Error VSYS10096 is Output when Starting or Stopping an L-Server

A message similar to the one below is displayed (the exact message varies depending on the operation):

```
The request to stop Server was failed.

Tenant ID: cfmgadm

Error code: VSYS10096

Please contact your system administrator.
```

Cause

If switching a physical server has failed, the power status of the server in the [L-Platforms] tab may be different from the status of the actual server.

Action

Log in as a dual-role administrator or an infrastructure administrator, and open the [Resources] tab.

Check the server status from the server tree.

If the status is different from in the [L-Platforms] tab, switch the power status from the server tree and match the status.

9.6 Whan a Tenant Administrator or a Tenant User Tries to Refer to Template Information to Subscribe to an L-Platform, the Message "Because there are no available pools for some servers, this template is not available. Please contact your system administrator." is Output

Cause

The L-Platform template that you chose may include the image information for which no VM pools or server pools are available. If resource tags are set to image information, the only VM pools or server pools available are those whose comment field contains the character string specified as the resource tags.

Action

Confirm the image information used in the L-Platform template that you chose and set the image information appropriately in the [Image] tab of the [L-Platform Template] window.

Note that, to edit the image information, all L-Platform templates using it must be hidden.

Refer to "Chapter 8 Template" in the "User's Guide for Infrastructure Administrators CE" or "Chapter 7 Template" in the "User's Guide for Tenant Administrators CE" for details.

9.7 When It Is not possible to Change Server CPU and Memory Specifications, or Disk Sizes during L-Platform Reconfiguration

Cause

When the following operations are performed on the [Resources] tab of the ROR console, the results are not reflected on the [L-Platforms] tab, so the server specifications of the VM host and storage space information may become incorrect. For that reason, server CPU, memory specifications, and disk size modification operations become invalid.

- Renaming of VM pools/storage pools
- Moving of VM pools/storage pools
- Moving of VM host resources/storage resources to another pool

Corrective Action

Take one of the following corrective actions:

- 1. If VM pools or storage pools have been renamed, change the names back to their previous names.
 - If VM pools or storage pools have been moved, move them back to their previous locations.
 - If VM host resources or storage resources have been moved, move them back to the previous pool they belonged to.
- 2. If a VM pool has been modified, perform L-Server migration between servers.

If a storage pool has been modified, perform storage migration using virtualization software.



Performing migration reflects changes to VM pools and storage pools on the [L-Platforms] tab.

If only one resource is registered in a pool, move that resource to another pool first and then move it back to the previous pool.

- First, release the L-Server from the L-Platform using the cfmg_deletelserver command, then specify the VM pool or storage pool that was changed, and import it back to the L-Platform using the cfmg_importlserver command.
 - For details on the cfmg_deletelserver command, refer to "10.2 cfmg_deletelserver (Release L-Server)" in the "Reference Guide (Command/XML) CE".
 - For details on the cfmg_importIserver command, refer to "10.5 cfmg_importIserver (Import L-Server)" in the "Reference Guide (Command/XML) CE".

When a VM pool or storage pool that has been changed has been configured in an L-Platform template, it is necessary to edit, copy, or create the L-Platform template again.

For the operation procedure of L-Platform templates, refer to "Chapter 8 Template" in the "User's Guide for Infrastructure Administrators CE".

When using accounting functions, it is necessary to set the accounting information for the VM pool or storage pool that was modified on the product master. For information on accounting functions, refer to "Chapter 15 Accounting" in the "Operation Guide CE".

Chapter 10 VM hosts Operations

This chapter explains strategies for handling problems with VM hosts operations.

10.1 Messages are output to system log in Linux environments or event log (application log) in Windows environments when the manager fails to connect to a VM host.

When this problem occurs, one or some of the following messages will be output.

[Windows Manager]

Event ID	Туре	Messages
8029	Warning	Unable to receive data from the server %1. %2
		%1: IP address of the VM host %2: Error messages
		Example: Unable to receive data from the server 192.168.1.101. No route to host
8030	Warning	Server %1 disconnect.
	%1: IP address of the VM host	
		Example: Server 192.168.1.101 disconnect.
8033	Warning	%1 SOCKET error: %2
		%1: System call %2: Error messages
		Example: select() SOCKET error: exception 10060 for server 192.168.1.101 id 192.168.1.101
8151	Error	%1. SOAP error: %2
		Detail: %3
		%1: Information of the VM host %2: Error messages %3: Detail messages (only output when there are detail messages)
		Example: server=192.168.1.101 (https:// 192.168.1.101:443/sdk). SOAP error: No route to host
		Detail: connect failed in tcp_connect()

[Linux Manager]

Event ID	Messages	
DSA8029W	Unable to receive data from the server %1. %2	
	%1: IP address of the VM host %2: Error messages	
	Example: Unable to receive data from the server 192.168.1.101. No route to host	
DSA8030W	Server %1 disconnect.	

Event ID	Messages
	%1: IP address of the VM host
	Example:
	Server 192.168.1.101 disconnect.
DSA8033W	%1 SOCKET error: %2
	%1: System call
	%2: Error messages
	Example:
	select() SOCKET error: exception 10060 for server 192.168.1.101 id 192.168.1.101
DSA8151E	%1. SOAP error: %2 Detail: %3
	%1: Information of the VM host
	%2: Error messages
	%3: Detail messages (only output when there are detail messages)
	Example:
	server=192.168.1.101 (https:// 192.168.1.101:443/sdk). SOAP error: No route to host Detail: connect failed in
	tcp_connect()

.....



The manager cannot collect and update the information of the VM host and the operated VM guests.

This problem affects [Dashboard]-[System Conditions] and [Dashboard]-[Capacity Planning]

Cause

The VM host might be powered off, causing the manager to fail to connect to the VM host.

The messages will also be output when in maintenance mode.

Action

Start the VM host.

When in maintenance mode and doing maintenance work, ignore the messages.

Chapter 11 Dashboard Operations

This chapter explains strategies for handling problems with Dashboard operations.

11.1 Messages Notifying of Update Checking Failures are Output to the Windows Event Log (Application Log) or the Linux System Log

Messages such as the one in the example below continue to be output to the Windows event log (application log) or the Linux system log, and information might not display on the [System Conditions] window in the [Dashboard] tab.

"Update check processing has failed. ..."

The message differs for each operation.

Cause

The configuration information of System Conditions has failed to update for some reason, which may have caused a disparity.

Action

Refer to "13.1 cmdbrefresh (Refresh Configuration Information of System Condition)" in the "Reference Guide (Command/XML) CE" for information on how to update the configuration information of System Conditions.

11.2 When Attempting to Display the Results Using Capacity Planning, the Error Code: 1572864 is Displayed

Cause

The desktop heap of the Capacity Planning may be insufficient.

Corrective Action

Perform the corrective action described in "13.1 When the Desktop Heap is Exhausted" in "Troubleshooting".

Chapter 12 Operations for Admin Servers

This chapter explains the operations to use when troubleshooting the admin server.

12.1 An Error is Notified when the Manager is Stopped.

Description

When stopping the manager, if the generated threads are waiting for collection, the following message is displayed:

ERROR:PCMI1101: The shutdown time of process exceeded the process monitoring time

Corrective Action

No action is necessary as the stop process of the manager is processed correctly and the threads are automatically collected.

Chapter 13 System Errors

This chapter explains how to troubleshoot system errors.

13.1 When the Desktop Heap is Exhausted

Description

For the following OSs, warning events may be displayed in the system event logs.

- Windows Server 2008
- Windows Server 2012

Event Source: Win32k

Event ID: 243

A desktop heap allocation failed.

Allocation of the OS memory size, which is referred to as the desktop heap, failed.



After starting the system, the OS event log above is only output for the first time that allocation of the desktop heap fails. For details on the desktop heap, refer to "Microsoft Technical support - 184802".

Corrective Action

There are no methods to estimate the appropriate value for the desktop heap.

When modifying the value of the desktop heap, use the following procedure to extend the memory size gradually.

1. Start the registry editor.

From [Start]-[Run], enter [regedit], and then click the [OK] button.

2. Move to the [SubSystems] key.

Move to the following key on the [HKEY_LOCAL_MACHINE] tree.

\System\CurrentControlSet\Control\Session Manager\SubSystems

- 3. Select [Windows].
- 4. Select [Modify] from the [Edit] menu.
- 5. Modify the value of [SharedSection], and increase the desktop heap.

Increase the third value (zzzz) in increments of 256KB or 512KB. The unit of the third value (zzzz) is KB.

SharedSection=xxxx,yyyy,zzzz

- *1: When operating Resource Orchestrator, it is not necessary to modify the first value (xxxx) or the second value (yyyy).
- *2: When the third value (*zzzz*) is omitted, the same value as the second value (*yyyy*) is configured. Configure a larger value than the second value (*yyyy*) for the third value (*zzzz*).
- 6. Restart the system.



If the registry is accidently modified using the registry editor, serious problems may occur. In the worst case, reinstallation of the OS may be necessary.

When modifying the registry, perform operations carefully, and ensure the system is backed up in advance.