

# **FUJITSU Software**

## **ServerView Resource Orchestrator V3.1.2**

A decorative horizontal band with a red-to-dark-red gradient, featuring abstract, glowing white and red lines that swirl and intersect, creating a sense of motion and technology.

# Release Notes

Windows/Linux

J2X1-7873-01ENZ0(06)  
November 2015

# Preface

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## Purpose of This Document

This manual explains the outlines, content, and details (relevant locations in manuals) of functions added from FUJITSU Software ServerView Resource Orchestrator V3.1.2.

## Intended Readers

This manual is for people who want to know about the functions that have been added since the previous version, and corrections that have been made.

## Structure of This Document

This manual is composed as follows:

### Chapter 1 Overview of Added Functions

Explains an overview of the functions added to FUJITSU Software ServerView Resource Orchestrator.

### Chapter 2 Compatibility Information

Explains compatibility with earlier versions of FUJITSU Software ServerView Resource Orchestrator.

### Chapter 3 Restrictions

Explains the usage restrictions of the functions described in the manuals of FUJITSU Software ServerView Resource Orchestrator.

## Web Site URLs

URLs provided as reference sources within the main text are correct as of November 2015.

Please understand that they are subject to change without notice.

## 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
[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
[OVM for x86 2.2]	Sections related to Oracle VM Server for x86 2.2
[OVM for x86 3.2]	Sections related to Oracle VM Server for x86 3.2
[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 ( " ).
- Window names, dialog names, menu names, and tab names are shown enclosed by brackets ( [ ] ).
- Button names are shown enclosed by angle brackets (< >) or square 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 "#".
- If using Windows 8 or Windows Server 2012, please note the following:  
Operations descriptions in this manual use examples assuming operating systems up to Windows 7 and Windows Server 2008 - if using this product with Windows 8 or Windows Server 2012, read instructions regarding the [Start] menu as if they were instructions for the [Apps] page.  
Display the [Apps] page by right-clicking in the [Start] screen, and then clicking on [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.

## 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.

- When using Windows 64-bit (x64)  
C:\Program Files (x86)\Resource Orchestrator
- When using Windows 32-bit (x86)  
C:\Program Files\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 Standard Microsoft(R) Windows Server(R) 2012 R2 Datacenter Microsoft(R) Windows(R) XP Professional operating system Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate Windows(R) 7 Professional Windows(R) 7 Ultimate Windows(R) 8 Pro 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

Abbreviation	Products
	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 Standard Microsoft(R) Windows Server(R) 2012 R2 Datacenter
Windows PE	Microsoft(R) Windows(R) Preinstallation Environment
Windows XP	Microsoft(R) Windows(R) XP Professional operating system
Windows Vista	Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate
Windows 7	Windows(R) 7 Professional Windows(R) 7 Ultimate
Windows 8	Windows(R) 8 Pro Windows(R) 8 Enterprise Windows(R) 8.1 Pro Windows(R) 8.1 Enterprise
Linux	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) 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) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) 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) 6.2 (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) Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)

Abbreviation	Products
	SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T
Red Hat Enterprise Linux	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) 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) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) 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) 6.2 (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) Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)
Red Hat Enterprise Linux 5	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) 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) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) 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)

Abbreviation	Products
	Red Hat(R) Enterprise Linux(R) 5.11 (for x86) Red Hat(R) Enterprise Linux(R) 5.11 (for Intel64)
Red Hat Enterprise Linux 6	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) Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)
RHEL5-Xen	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
RHEL-KVM	Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.5 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64) Virtual Machine Function
DOS	Microsoft(R) MS-DOS(R) operating system, DR DOS(R)
SUSE Linux Enterprise Server	SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T
OVM for x86 2.2	Oracle(R) VM Server for x86 2.2
OVM for x86 3.2	Oracle VM Server for x86 v3.2.1 Oracle VM Server for x86 v3.2.2 Oracle VM Server for x86 v3.2.3 Oracle VM Server for x86 v3.2.4 Oracle VM Server for x86 v3.2.6 Oracle VM Server for x86 v3.2.7
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
ESC	ETERNUS SF Storage Cruiser
GLS	PRIMECLUSTER GLS
Navisphere	EMC Navisphere Manager
Solutions Enabler	EMC Solutions Enabler
MSFC	Microsoft Failover Cluster
Solaris	Oracle Solaris10 05/09 (Update7) Media Pack Oracle Solaris11 11/11 Media Pack Oracle Solaris11.1 Media Pack
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

Abbreviation	Products
	VMware vSphere(R) 5.1 Vmware vSphere(R) 5.5
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 Tools	VMware(R) Tools
VMware vSphere 4.0	VMware vSphere(R) 4.0
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 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 vDS	VMware(R) vNetwork Distributed Switch
VMware Storage VMotion	VMware(R) Storage VMotion
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
BladeLogic	BMC BladeLogic Server Automation
Internet Explorer	Windows(R) Internet Explorer(R) 8 Windows(R) Internet Explorer(R) 9 Windows(R) Internet Explorer(R) 10 Windows(R) Internet Explorer(R) 11
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
SVFAB	ServerView Fabric Manager



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April 2014, Edition 1.4	J2X1-7873-01ENZ0(04)
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November 2015, Edition 1.6	J2X1-7873-01ENZ0(06)

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# Chapter 1 Overview of Added Functions

This chapter explains the functions added since earlier versions.

## Notational Conventions

The following table shows the list of modifications.

No.	Function	Content	Reference Location	VE	CE
-----	----------	---------	--------------------	----	----

No.

A sequential serial number.

VL

Indicates the applicable version.

Function

Indicates the name of the function that has been added.

Content

Describes the content of the function that has been added.

Reference Location

Indicates the location in the manuals where information about the added function can be found.

VE, CE

Shows which editions this additional function is applicable to.

In this document, the following product names may be indicated using abbreviated forms.

Abbreviation	Product Name
VE	FUJITSU Software ServerView Resource Orchestrator Virtual Edition
CE	FUJITSU Software ServerView Resource Orchestrator Cloud Edition

Yes: Applicable.

No: Not applicable to that edition.

## 1.1 Overview of Additional Functions in V3.1.2

### 1.1.1 Overview of Additional Functions in V3.1.2

This section explains the additional functions added in V3.1.2.

Table 1.1 Overview of Additional Functions in V3.1.2

No.	Function	Content	Reference Location	VE	CE
1	Windows Server 2012 R2 Support	Supports Windows Server 2012 R2 as the manager, agent, and admin client of Resource Orchestrator.	<ul style="list-style-type: none"> <li>- "Design Guide VE"</li> <li>- "2.4.2.1 Required Basic Software"</li> <li>- "Design Guide CE"</li> <li>- "2.4.2.1 Required Basic Software"</li> <li>- "Reference Guide (Command/XML) CE"</li> </ul>	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			- "Appendix C Registered Software IDs"		
2	Windows 8.1 Support	Supports Windows 8.1 as the admin client of Resource Orchestrator.	<ul style="list-style-type: none"> <li>- "Design Guide VE"</li> <li>- "2.4.2.1 Required Basic Software"</li> <li>- "Design Guide CE"</li> <li>- "2.4.2.1 Required Basic Software"</li> </ul>	Yes	Yes
3	Additional Browser Support for Admin Clients	Internet Explorer 11 is supported by the ROR console.	<ul style="list-style-type: none"> <li>- "Design Guide VE"</li> <li>- "2.4.2.1 Required Basic Software"</li> <li>- "2.4.2.4 Required Software"</li> <li>- "Design Guide CE"</li> <li>- "2.4.2.1 Required Basic Software"</li> <li>- "2.4.2.4 Required Software"</li> <li>- "Appendix B HTTPS Communications"</li> <li>- "Setup Guide CE"</li> <li>- "Chapter 6 Importing a Certificate to a Browser"</li> </ul>	Yes	Yes
		The ROR console supports Firefox.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "2.4.2.1 Required Basic Software"</li> <li>- "2.4.2.4 Required Software"</li> <li>- "Appendix B HTTPS Communications"</li> <li>- "Setup Guide CE"</li> <li>- "Chapter 4 Login to the ROR Console"</li> <li>- "Chapter 6 Importing a Certificate to a Browser"</li> <li>- "F.4 Client"</li> <li>- "User's Guide for Infrastructure Administrators CE"</li> <li>- "Chapter 2 Login and Logout"</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "Chapter 2 Login and Logout"</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "Chapter 2 Login and Logout"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
4	Support for Role Customization	Supports customization of roles.	<ul style="list-style-type: none"> <li>- "Release Notes"</li> <li>- "2.3.5.1 Access Authority Customize Commands"</li> <li>- "2.3.5.2 Display of the Application List Tab, Tenant Tab, and Usage Charge Tab on the ROR Console"</li> <li>- "Design Guide CE" <ul style="list-style-type: none"> <li>- "5.1 Restricting Access Using Roles"</li> <li>- "5.1.3 Customizing Roles"</li> </ul> </li> <li>- "Setup Guide CE" <ul style="list-style-type: none"> <li>- "18.1 Settings for Sending Email"</li> <li>- "18.1.2 Settings for Email Sent from Tenant Management"</li> <li>- "18.2.3 Setting Application Process Settings"</li> <li>- "18.2.6 Role Settings for the Display of the Application List Tab"</li> </ul> </li> <li>- "Operation Guide CE" <ul style="list-style-type: none"> <li>- "8.2 Settings for Sending Email"</li> <li>- "8.7.4 Usage Charge Calculator Settings"</li> <li>- "16.2.2 Audit Logs of Output by the Tenant Management, Accounting and System Condition"</li> </ul> </li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE" <ul style="list-style-type: none"> <li>- "3.5 Viewing Roles"</li> <li>- "3.6 Creating a Role"</li> <li>- "3.7 Modifying a Role"</li> <li>- "3.8 Deleting a Role"</li> <li>- "A.2.1 List of Menus"</li> </ul> </li> <li>- "User's Guide for Infrastructure Administrators CE" <ul style="list-style-type: none"> <li>- "3.1 Setup Wizard"</li> <li>- "11.6 Displaying a User List"</li> <li>- "11.7 Registering a User"</li> <li>- "11.8 Modifying a User"</li> </ul> </li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "10.2 Displaying a User List"</li> <li>- "10.3 Registering a User"</li> <li>- "10.4 Registering a Provisional Account"</li> <li>- "10.5 Modifying a User"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "1.2 Overview of Operation Management Commands"</li> <li>- "15.1 Overview"</li> <li>- "15.8 Roles"</li> <li>- "15.9 User"</li> <li>- "Chapter 12 Role Customization Commands"</li> <li>- "Glossary"</li> </ul>		
5	Enhanced Fabric Management (VFAB Auto-configuration, Converged Fabric Management Software Registration)	<p>Supports VFAB auto-configuration.</p> <p>Also supports registration of Converged Fabric management software.</p>	<ul style="list-style-type: none"> <li>- "Overview"</li> <li>- "5.4.13 Network Device Monitoring and Operation"</li> <li>- "Design Guide CE"</li> <li>- "2.2.7.1 Timing of Automatic Network Settings"</li> <li>- "H.1.3 Virtual Fabrics"</li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "5.14 Registering Converged Fabric Management Software"</li> <li>- "7.6.2 Changing Network Device Settings"</li> <li>- "19.3 Moving"</li> <li>- "Operation Guide CE"</li> <li>- "9.5 Network Device Maintenance"</li> <li>- "11.4.5 Converged Fabric Status Confirmation"</li> <li>- "Setup Guide CE"</li> <li>- "Appendix H Configuration when Using Ethernet Fabrics"</li> </ul>	-	Yes
6	NS Option SLB Support	Supports the server load balancer function.	<ul style="list-style-type: none"> <li>- "Overview"</li> <li>- "1.2 Product Line-up"</li> </ul>	-	Yes



No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "5.1 Available Functions"</li> <li>- "5.4.15 Ensuring Network Security"</li> <li>- "Design Guide CE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "Appendix G Sample Script for Automatic Configuration and Operation of Network Devices"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "15.6.1 Creation"</li> <li>- "NS Option Instruction"</li> <li>- "Chapter 1 Overview"</li> <li>- "2.1.1 Designing the Server and Storage Environment"</li> <li>- "2.1.2 Designing the Network Environment"</li> <li>- "2.1.3 Designing the L-Platform Network Environment"</li> <li>- "2.2.2 Preparations for NS Appliance"</li> <li>- "2.2.3.3 Network Configuration Information Files"</li> <li>- "3.3.1 Registering Cloning Images for NS Option"</li> <li>- "3.7 Registering NS Appliances as Resources"</li> <li>- "4.1.1 Pre-configuration of NS Appliances"</li> <li>- "4.1.5 Creating L-Platform Templates"</li> <li>- "4.2.10 Confirming Network Device Versions"</li> <li>- "A.1 rcxnetworkservice"</li> <li>- "C.3 Server Certificate and CA Certificate Operations"</li> <li>- "C.4 Error Page Response File Operations"</li> <li>- "Glossary"</li> </ul>		
7	Support of New Network Functions for Windows Server 2012	Supports connection functions of pre-configured VM networks and virtual L-Servers, using VM Network configuration.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "E.2.1 System Configuration"</li> <li>- "Setup Guide CE"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "8.3.2 Definition Files (Hyper-V)"</li> <li>- "C.3.5 Manual Network Configuration"</li> </ul>		
8	Additional Network Device Model Support	Now supports IPCOM VX and IPCOM VA.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "F.6.1 Script List Files"</li> <li>- "Operation Guide CE"</li> <li>- "9.5.4 Maintenance Procedures of Network Devices (Virtual Appliances)"</li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "5.7 Registering Network Devices"</li> <li>- "22.1 Switchover of Maintenance Mode"</li> <li>- "A.7.5 Network Device Attributes"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "3.4 rcxadm firewall"</li> <li>- "3.8 rcxadm netdevice"</li> <li>- "3.12 rcxadm slb"</li> <li>- "15.15.1 For Scripts of Automatic Configuration Rulesets"</li> <li>- "15.6.1 Creation"</li> <li>- "15.6.2 Modification"</li> </ul>	-	Yes
9	Additional Model Support of NetworkViewer	<ul style="list-style-type: none"> <li>- Supports IBP mode of LAN switch blades.</li> <li>- Supports rack mount servers (including VM hosts) when details for resources are displayed.</li> </ul>	<ul style="list-style-type: none"> <li>- "Design Guide VE"</li> <li>- "2.2 Function Overview"</li> <li>- "D.1 Common Functions of Server Virtualization Software"</li> <li>- "Setup Guide VE"</li> <li>- "Chapter 1 Flow of Setup for Resource Orchestrator"</li> <li>- "Operation Guide VE"</li> <li>- "9.3 Restoration"</li> <li>- "User's Guide VE"</li> <li>- "Chapter 13 NetworkViewer"</li> <li>- "A.1 ROR Console"</li> </ul>	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "9.3.3 Pre-configuring Managed Network Devices"</li> <li>- "E.9.5 Functions and Configuration of OVM for x86 3.2"</li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "Chapter 11 NetworkViewer"</li> <li>- "A.1 ROR Console"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "15.5.2 Modification"</li> </ul>		
10	Support of Creation and Deletion of L-Servers in the OVM for SPARC Environment	Supports creation and deletion of L-Servers in OVM for SPARC environments.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "2.3 Functional Differences Depending on Product"</li> <li>- "2.4.2.4 Required Software"</li> <li>- "2.5 Hardware Environment"</li> <li>- "9.4.1.2 Network Configuration for Blade Servers (Physical/Virtual L-Servers)"</li> <li>- "11.1 Deciding Server Virtualization Software"</li> <li>- "E.7.1 System Configuration"</li> <li>- "E.7.2 Preparations for Servers"</li> <li>- "Setup Guide CE"</li> <li>- "1.2.2.2 When Creating a Virtual L-Server"</li> <li>- "8.3.7 Definition Files (OVM for SPARC)"</li> <li>- "C.1 Definition Files Commonly Shared when Creating Virtual L-Servers"</li> <li>- "C.1.7 OS Property Definition File"</li> <li>- "C.2.11 Overcommit"</li> <li>- "C.8 OVM for SPARC"</li> <li>- "C.8.1 Creating Definition Files"</li> <li>- "C.8.3 Registering Resources in Resource Pools"</li> <li>- "C.8.7 [OS] Tab Configuration"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "C.8.8 Advisory Notes for OVM for SPARC Usage"</li> <li>- "I.1 Coordination with BMC BladeLogic Server Automation"</li> <li>- "Operation Guide CE"</li> <li>- "7.2.12 Adding and Deleting NICs for Servers After Deployment (OVM for SPARC)"</li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "Chapter 14 Registering Resources in Resource Pools"</li> <li>- "Chapter 16 Creating L-Servers"</li> <li>- "Chapter 17 L-Server Operations"</li> <li>- "18.2 Available Range"</li> <li>- "18.4.3 For Virtual Machines"</li> <li>- "19.3 Moving"</li> <li>- "User's Guide for Infrastructure Administrators CE"</li> <li>- "8.4.2.2 Set Basic Info Page"</li> <li>- "8.4.4.2 Configure Page"</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "7.4.2.2 Set Basic Info Page"</li> <li>- "7.4.4.2 Configure Page"</li> <li>- "8.2.1 Subscribe to a New L-Platform"</li> <li>- "8.2.2 L-Platform Subscription after Saving Configuration"</li> <li>- "8.3.2 L-Platform Detailed Information Display"</li> <li>- "8.3.15 L-Platform Reconfiguration"</li> <li>- "8.3.17 Reconfiguration Page"</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "5.2.1 Subscribe to a New L-Platform"</li> <li>- "5.2.2 L-Platform Subscription after Saving Configuration"</li> </ul>		

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "5.3.2 L-Platform Detailed Information Display"</li> <li>- "5.3.13 L-Platform Reconfiguration"</li> <li>- "5.3.15 Reconfiguration Page"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "3.6 rcxadm lserver"</li> <li>- "3.10 rcxadm pool"</li> <li>- "14.2.2 CreateNetwork (Add Network Segment to L-Platform)"</li> <li>- "14.2.3 DestroyLPlatform (Returns an L-Platform)"</li> <li>- "14.2.4 DestroyNetwork (Delete a Specified Network Segment from an L-Platform)"</li> <li>- "14.3.4 CreateLServer (Creates a New Server)"</li> <li>- "14.3.5 CreateNic (Add NIC to Server)"</li> <li>- "14.3.7 DestroyLServer (Deletes Server)"</li> <li>- "14.3.8 DestroyNic (Delete Specified NIC from Server)"</li> <li>- "14.3.11 ExpandSysvolSize (Increase System Disk Size for a Server)"</li> <li>- "14.3.24 UpdateLServerConfiguration (Changes the Performance of a Server)"</li> <li>- "14.4.1 AttachDisk (Attaches an Existing Disk)"</li> <li>- "14.4.2 CreateDisk (Adds Additional Disks)"</li> <li>- "14.4.3 DestroyDisk (Deletes Additional Disks)"</li> <li>- "14.4.4 DetachDisk (Detaches an Existing Disk)"</li> <li>- "15.2.2 Virtual L-Server Templates"</li> <li>- "15.3.2 Definition Information for Virtual L-Servers (XML)"</li> </ul>		

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "15.19.2.2 File Information Details"</li> <li>- "15.19.4.2 File Information Details"</li> <li>- "Reference Guide (API) CE"</li> <li>- "2.2.2 CreateNetwork (Add Network Segment to L-Platform)"</li> <li>- "2.2.3 DestroyLPlatform (Returns an L-Platform)"</li> <li>- "2.2.4 DestroyNetwork (Delete a Specified Network Segment from an L-Platform)"</li> <li>- "2.3.4 CreateLServer (Creates a New Server) "</li> <li>- "2.3.5 CreateNic (Add NIC to Server)"</li> <li>- "2.3.7 DestroyLServer (Deletes Server)"</li> <li>- "2.3.8 DestroyNic (Delete Specified NIC from Server)"</li> <li>- "2.3.11 ExpandSysvolSize (Increase the Size of System Volume)"</li> <li>- "2.3.24 UpdateLServerConfiguration (Changes the Performance of a Server)"</li> <li>- "2.4.1 AttachDisk (Attaches an Existing Disk)"</li> <li>- "2.4.2 CreateDisk (Adds Additional Disks)"</li> <li>- "2.4.3 DestroyDisk (Deletes Additional Disks)"</li> <li>- "2.4.4 DetachDisk (Detaches an Existing Disk)"</li> <li>- "Glossary"</li> <li>- "Troubleshooting"</li> <li>- "3.7 Creation of a Virtual L-Server does not Finish even after a long Time."</li> </ul>		
11	Support of Use of the Console in VMware vSphere 5.1	Supports use of the console in VMware vSphere 5.1.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "2.4.2.4 Required Software"</li> <li>- "11.1 Deciding Server Virtualization Software"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "Appendix A Port List"</li> <li>- "Appendix E Preparations for Creating a Virtual L-Server"</li> <li>- "E.1.2 Preparations for Servers"</li> <li>- "E.1.4 Network Preparations"</li> <li>- "Setup Guide CE" <ul style="list-style-type: none"> <li>- "C.2.1 Creating Definition Files"</li> </ul> </li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE" <ul style="list-style-type: none"> <li>- "17.3 Using the L-Server Console"</li> <li>- "A.2.1 List of Menus"</li> <li>- "A.2.2 Popup Menus"</li> <li>- "A.5 Console Screen"</li> </ul> </li> </ul>		
12	Ability to select an existing disk as the system disk in KVM environments	When deploying a KVM server, you can specify an existing disk as the system disk.	<ul style="list-style-type: none"> <li>- "User's Guide for Infrastructure Administrators CE" <ul style="list-style-type: none"> <li>- "8.4.4.2 Configure Page"</li> </ul> </li> <li>- "User's Guide for Tenant Administrators CE" <ul style="list-style-type: none"> <li>- "7.4.4.2 Configure Page"</li> <li>- "8.3.17 Reconfiguration Page"</li> </ul> </li> <li>- "User's Guide for Tenant Users CE" <ul style="list-style-type: none"> <li>- "5.3.15 Reconfiguration Page"</li> </ul> </li> <li>- "Reference Guide (Command/XML) CE" <ul style="list-style-type: none"> <li>- "9.12 cfmg_listtemplate (Displaying Template Information List)"</li> </ul> </li> <li>- "14.3.4 CreateLServer (Creates a New Server)"</li> <li>- "15.19.4.2 File Information Details"</li> <li>- "Reference Guide (API) CE" <ul style="list-style-type: none"> <li>- "2.3.4 CreateLServer (Creates a New Server)"</li> </ul> </li> </ul>	-	Yes
13	Performance information display for the dashboard (operational status) in OVM for SPARC	The performance information for the dashboard (operation status) is displayed if OVM for SPARC is used.	<ul style="list-style-type: none"> <li>- "Setup Guide CE" <ul style="list-style-type: none"> <li>- "2.3.4 Installation [Linux]"</li> </ul> </li> <li>- "User's Guide for Infrastructure Administrators CE" <ul style="list-style-type: none"> <li>- "5.2.1 System Conditions Display"</li> </ul> </li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "5.3 VM Hosts System Conditions Display"</li> <li>- "5.3.1 System Conditions Display"</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "5.2.1 System Conditions Display"</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "4.2.1 System Conditions Display"</li> </ul>		
14	Fixed display order for segments	The sequence of the segments in the <b>L-Platform</b> tab and <b>Template</b> tab are fixed (same order as they were registered with the template).	<ul style="list-style-type: none"> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "9.12 cfmgr_listtemplate (Displaying Template Information List)"</li> <li>- "15.19.4.2 File Information Details"</li> </ul>	-	Yes
15	Case-sensitivity of L-Platform template search	Keywords are now case-insensitive when searching L-Platform templates.	<ul style="list-style-type: none"> <li>- "User's Guide for Infrastructure Administrators CE"</li> <li>- "8.4.4.1 Set Basic Info Page"</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "8.2.1 Subscribe to a New L-Platform"</li> <li>- "7.4.4.1 Set Basic Info Page"</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "5.2.1 Subscribe to a New L-Platform"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "15.19.4.2 File Information Details"</li> </ul>	-	Yes
16	Display control for the software details button	It is now possible to change a setting in the configuration file to hide the <b>Software Details</b> button in the <b>L-Platform Details</b> window.	<ul style="list-style-type: none"> <li>- "Operation Guide CE"</li> <li>- "8.5.12 Display Settings for Software Details"</li> </ul>	-	Yes
17	Display control for the OS license key	It is now possible to make changes so the OS license key is hidden in the <b>L-Platform Details</b> window when the tenant administrator, tenant user, or dual-role administrator logs in.	<ul style="list-style-type: none"> <li>- "Operation Guide CE"</li> <li>- "8.5.13 Display Settings for OS License Key"</li> </ul>	-	Yes



No.	Function	Content	Reference Location	VE	CE
18	Support of Export of Virtual L-Servers	Supports the function to export virtual L-Servers in order to migrate VM guests to external cloud services, etc.	<ul style="list-style-type: none"> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "17.10 Exporting a Virtual L-Server"</li> </ul>	-	Yes
19	Support for Information Output of Virtual L-Servers	Supports the function to output the information for each virtual L-Server included in an L-Platform as a CSV file, after deploying or deleting an L-Platform.	<ul style="list-style-type: none"> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "B.4 Information Output of Virtual L-Servers"</li> </ul>	-	Yes

## 1.1.2 Overview of Additional Functions in V3.1.2 (T009379LP-01/T009378WP-01)

This section explains the additional functions added in V3.1.2 (T009379LP-01/T009378WP-01).

Table 1.2 Overview of Additional Functions in V3.1.2 (T009379LP-01/T009378WP-01)

No.	Function	Content	Reference Location	VE	CE
1	Hardware Support	Supports the following models of hardware: <ul style="list-style-type: none"> <li>- PRIMEQUEST 2400S1 Lite</li> <li>- PRIMEQUEST 2400S1</li> <li>- PRIMEQUEST 2400E1</li> <li>- PRIMEQUEST 2400L1</li> <li>- PRIMEQUEST 2800E1</li> <li>- PRIMEQUEST 2800L1</li> </ul>	<ul style="list-style-type: none"> <li>- "Release Notes"</li> <li>- Items 4 in "<a href="#">3.1 Restrictions Common to All Editions</a>"</li> <li>- "Design Guide VE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "Design Guide CE"</li> <li>- "2.5 Hardware Environment"</li> </ul>	Yes	Yes

## 1.1.3 Overview of Additional Functions in V3.1.2 (T009379LP-03/T009378WP-04)

This section explains the additional functions added in V3.1.2 (T009379LP-03/T009378WP-04).

In Cloud Edition, as well as the modifications of T009379LP-03/T009378WP-04, the additional functions of T009384LP-03/T009383WP-04 are also included.

Table 1.3 Overview of Additional Functions in V3.1.2 (T009379LP-03/T009378WP-04)

No.	Function	Content	Reference Location	VE	CE
1	Improvement of Firewall setting window GUI	The Add Firewall rule window is improved so that it automatically enters the lowest value in ID.  The input value checking and messages of Firewall setting window is improved.	<ul style="list-style-type: none"> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "8.3.9 Setup Firewall"</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "5.3.8 Setup Firewall"</li> </ul>	-	Yes
2	NIC charging	Supports charging the number of NICs.	<ul style="list-style-type: none"> <li>- "Release Notes"</li> <li>- "<a href="#">2.3.3.1 Addition of Resource Type (IP address) in Output Metering Logs Command (ctchg_getmeterlog)</a>"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "2.3.3.2 Accounting Information Settings for NICs"</li> <li>- "Operation Guide CE"</li> <li>- "15.2.1 Information Maintained by Product Master"</li> <li>- "15.2.2 Accounting Information File Format"</li> <li>- "15.3.3 Delete Accounting Information"</li> <li>- "15.4.4 Resource Usage Amounts and Times"</li> <li>- "15.4.5 Example of Usage Charge Calculation"</li> <li>- "15.4.6.2 Usage charge Detail File"</li> <li>- "B.1 Types of Metering Logs"</li> <li>- "B.2 Output Contents of Metering Logs"</li> <li>- "B.3 Formats of Metering Log Files"</li> <li>- "User's Guide for Infrastructure Administrators CE"</li> <li>- "12.3 Usage Charge Detail "</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "Edit a Segment" in "8.3.17 Reconfiguration Page"</li> <li>- "NIC Grouping" in "8.3.17 Reconfiguration Page"</li> <li>- "11.2 Usage Charge Detail "</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "Edit a Segment" in "5.3.15 Reconfiguration Page"</li> <li>- "NIC Grouping" in "5.3.15 Reconfiguration Page"</li> <li>- "Reference Guide (API) CE"</li> <li>- "3.1.1 GetResourceUsage (Get Resource Usage)"</li> <li>- "3.2.1 GetUsagePoint (Get Usage Point)"</li> <li>- "3.2.2 RegisterUsagePoint (Register Usage Point)"</li> <li>- "3.3.1 GetDailyCharge (Get Daily Usage Charges)"</li> </ul>		

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "3.3.2 RegisterDailyCharge (Register Daily Usage Charges)"</li> <li>- "3.4.1 GetMonthlyCharge (Get Monthly Usage Charges)"</li> <li>- "3.4.2 RegisterMonthlyCharge (Register Monthly Usage Charges)"</li> </ul>		
3	Support of the system condition of VM hosts (Global Zone) on VM guests of OVM for SPARC	Dashboard (System Conditions) supports displaying the system condition of VM hosts (Global Zone) on VM guests of OVM for SPARC.	<ul style="list-style-type: none"> <li>- "Setup Guide CE"</li> <li>- "2.3 Agent (Dashboard Function) Installation"</li> </ul>	-	Yes
4	L-Server template filtering by server virtualization software	The L-Server template list displayed in the "Type" of the setting window for images or servers on the L-Platform or Template tab is improved to display only usable L-Server templates.	<ul style="list-style-type: none"> <li>- "User's Guide for Infrastructure Administrators CE"</li> <li>- "8.4.2.2 Set Basic Info Page"</li> <li>- "8.4.4.2 Configure Page"</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "7.4.2.2 Set Basic Info Page"</li> <li>- "7.4.4.2 Configure Page"</li> <li>- "8.3.17 Reconfiguration Page "</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "5.3.15 Reconfiguration Page"</li> </ul>	-	Yes
5	Ability to change the graph displayed initially on System Conditions	It is now possible to change which graph is displayed initially for the system condition graphs of Dashboard (System Conditions).	<ul style="list-style-type: none"> <li>- "Operation Guide CE"</li> <li>- "8.11 Settings for the Initial Display Graph of Operational Status"</li> </ul>	-	Yes
6	Support of changing host names and IP addresses	Supports the function to change host names and IP addresses of servers by reconfiguring an L-Platform.	<ul style="list-style-type: none"> <li>- "Setup Guide CE"</li> <li>- "18.4.2 Setting Form"</li> <li>- "18.5.2 Setting Form"</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "8.3.15 L-Platform Reconfiguration"</li> <li>- "8.3.17 Reconfiguration Page "</li> <li>- "User's Guide for Tenant User CE"</li> <li>- "5.3.13 L-Platform Reconfiguration"</li> <li>- "5.3.15 Reconfiguration Page"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "10.5 cfm_g_importlserver (Import L-Server)"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "Reference Guide (API) CE"</li> <li>- "2.3.22 UpdateIPAddress (Updates a Server IP Address)"</li> <li>- "2.3.23 UpdateLServerAttributes (Updates the Attributes of a Server)"</li> </ul>		
7	Disaster Recovery	<p>The following Disaster Recovery functions have been added:</p> <ul style="list-style-type: none"> <li>- Support for Linux managers.</li> <li>- Support for Active-Active operation.</li> <li>- The DR configuration check tool.</li> <li>- Partial automation of the switchover procedure.</li> <li>- The additional recovery function for the resources which are removed by switchover scope limitation function supported.</li> <li>- Asymmetric blade chassis configuration between sites supported</li> <li>- The log function has been added to the dsmount.pl script.</li> <li>- Improved dsmount.pl script.</li> </ul>	<ul style="list-style-type: none"> <li>- "DR Option Instruction"</li> <li>- "2.1 Switchover Methods"</li> <li>- "2.2 Switchover Operations"</li> <li>- "2.3 Switchover Levels"</li> <li>- "2.4 Limitation of Switchover Scope and Additional Recovery"</li> <li>- "2.5 Degrading Blade Chassis"</li> <li>- "2.6 Configuration of the Primary and Backup Sites"</li> <li>- "2.7 Necessary Licenses"</li> <li>- "2.8 Estimation of Disk Capacity"</li> <li>- "2.9 Advisory Notes for Disaster Recovery Environments"</li> <li>- "3.1 Pre-setup Preparations"</li> <li>- "3.2 Creating Switchover Information Folders"</li> <li>- "3.3 Manager Installation and Configuration"</li> <li>- "3.4 Configuring Managed Resources"</li> <li>- "3.5 Configuring for Limiting Switchover Scope"</li> <li>- "3.7 Configuring Automatic Collection of Switchover Information"</li> <li>- "3.8 Configuring the DR Configuration Check Tool"</li> <li>- "4.1 Normal Operation"</li> <li>- "4.2 Switchover between Sites Using the Disaster Recovery Function"</li> <li>- "4.3 Operation after Switchover"</li> <li>- "4.4 Failback After Recovery of the Primary Site"</li> <li>- "4.5 Operation after Failback"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "4.6 Additional Recovery Operation after Failback"</li> <li>- "Appendix A Settings for Software ID Prefixes"</li> <li>- "B.1 rcxmglexport"</li> <li>- "B.2 rcxrecovery"</li> <li>- "B.6 rcxdrcheck"</li> <li>- "B.7 cfmg_changesoftwareid"</li> <li>- "C.1 Error Messages Regarding dsmount.pl"</li> <li>- "C.3 Messages Regarding rcxdrcheck"</li> <li>- "D.2 Logs Regarding the rcxrecovery Command"</li> <li>- "D.3 Logs Regarding the dsmount Command"</li> </ul>		
8	Support for VDI Coordination	VMware Horizon View can be used as a VDI admin server.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "Appendix K Preparations for Using VDI Coordination"</li> <li>- "Setup Guide CE"</li> <li>- "C.2.1 Creating Definition Files"</li> <li>- "C.2.12 participating in an Active Directory domain"</li> <li>- "Appendix M Settings for Using VDI Coordination"</li> <li>- "Operation Guide CE"</li> <li>- "8.5.14 VDI Settings [Windows Manager]"</li> <li>- "15.2.1 Information Maintained by Product Master"</li> <li>- "User's Guide for Infrastructure Administrators CE"</li> <li>- "8.1.6 Notes on Using VDI (Virtual Desktops)"</li> <li>- "8.3.7 Synchronizing Image Information"</li> <li>- "8.4.2.2 Set Basic Info Page"</li> <li>- "8.4.4.2 Configure Page"</li> <li>- "User's Guide for Tenant Administrators CE"</li> <li>- "7.1.5 Notes on Using VDI (Virtual Desktops)"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "7.3.7 Synchronizing Image Information"</li> <li>- "7.4.2.2 Set Basic Info Page"</li> <li>- "7.4.4.2 Configure Page"</li> <li>- "NIC Add and Delete" in "8.3.17 Reconfiguration Page"</li> <li>- "User's Guide for Tenant User CE" <ul style="list-style-type: none"> <li>- "NIC Add and Delete" in "5.3.15 Reconfiguration Page"</li> </ul> </li> <li>- "Reference Guide (Command/XML) CE" <ul style="list-style-type: none"> <li>- "10.4 cfm_deletevdiparams (Delete VDI Coordination Parameters) [Windows Manager]"</li> <li>- "10.9 cfm_updatevdiconnectinfo (Update VDI Management Server Connection Information) [Windows Manager]"</li> <li>- "10.10 cfm_updatevdiparams (Update VDI Coordination Parameters) [Windows Manager]"</li> </ul> </li> <li>- "Reference Guide (API) CE" <ul style="list-style-type: none"> <li>- "2.1.2 GetLPlatformDescriptorConfiguration (Gets Template Configuration Information)"</li> <li>- "2.1.5 ListDiskImage (Gets a List of Cloning Images)"</li> <li>- "2.2.1 CreateLPlatform (Creates an L-Platform)"</li> <li>- "2.2.6 GetLPlatformConfiguration (Gets Configuration Information for an L-Platform)"</li> <li>- "2.2.9 ListLPlatform (Gets a List of L-Platform)"</li> <li>- "2.3.4 CreateLServer (Creates a New Server)"</li> <li>- "2.3.13 GetLServerConfiguration (Gets Configuration Information for a Server)"</li> </ul> </li> </ul>		

No.	Function	Content	Reference Location	VE	CE
9	Active Directory for redundancy configurations Support	Supports Active Directory for redundancy configurations as the directory server of Resource Orchestrator.	<ul style="list-style-type: none"> <li>- "Setup Guide VE"</li> <li>- "Appendix G Migration Procedure when Using Active Directory with a Redundant Configuration"</li> <li>- "Setup Guide CE"</li> <li>- "Appendix L Migration Procedure when Using Active Directory with a Redundant Configuration"</li> <li>- "Operation Guide VE"</li> <li>- "9.3 Restoration"</li> <li>- "Operation Guide CE"</li> <li>- "10.1.4.10 Active Directory Settings for Redundancy Configurations"</li> </ul>	Yes	Yes
10	Support of server switchover for OVM for SPARC	Server switchover for OVM for SPARC managed servers is now supported.	<ul style="list-style-type: none"> <li>- "Release Notes"</li> <li>- Item 2 in "<a href="#">3.1 Restrictions Common to All Editions</a>"</li> <li>- "Design Guide VE"</li> <li>- "2.2 Function Overview"</li> <li>- "6.1.6 Settings when Switching Over Fujitsu M10/SPARC Enterprise Servers"</li> <li>- "8.2 Configuring the Storage Environment"</li> <li>- "D.1 Common Functions of Server Virtualization Software"</li> <li>- "Setup Guide VE"</li> <li>- "9.3 Server Switchover Conditions"</li> <li>- "9.4 Conditions Required for Auto-Recovery"</li> <li>- "Operation Guide VE"</li> <li>- "4.1 Overview"</li> <li>- "4.2 Switchover"</li> <li>- "4.3 Post-Switchover Operations"</li> <li>- "6.3.2 Replacing Servers"</li> <li>- "Appendix A Notes on Operating ServerView Resource Orchestrator"</li> <li>- "User's Guide VE"</li> </ul>	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "7.6.2 Registering SPARC Enterprise (M3000/T Series) and FUJITSU M10-1/M10-4"</li> <li>- "9.9.1 Server Role Modification"</li> <li>- "10.1 Configuring WWN Settings for ETERNUS SF Storage Cruiser Integration"</li> <li>- "18.1 Status Display"</li> <li>- "18.2 Settings for Server Switchover"</li> <li>- "18.5 Definition File of Server Switchover"</li> <li>- "A.2.1 List of Menus"</li> <li>- "A.2.2 Popup Menus"</li> <li>- "A.6.3 Physical OS, VM Host, and VM Guest Attributes"</li> <li>- "Reference Guide (Command) VE" <ul style="list-style-type: none"> <li>- "3.2 rcxadm server"</li> </ul> </li> <li>- "Troubleshooting"</li> <li>- "2.5 Server Switchover and Failback Issues"</li> </ul>		

### 1.1.4 Overview of Additional Functions in V3.1.2 (T009379LP-04/T009378WP-05)

This section explains the additional functions added in V3.1.2 (T009379LP-04/T009378WP-05).

In Cloud Edition, as well as the modifications of T009379LP-04/T009378WP-05, the additional functions of T009384LP-04/T009383WP-05 are also included.

Table 1.4 Overview of Additional Functions in V3.1.2 (T009379LP-04/T009378WP-05)

No.	Function	Content	Reference Location	VE	CE
1	Support of configurations using local boot or SAN data environments	Supports configurations using local boot or SAN data environments.	<ul style="list-style-type: none"> <li>- "Release Notes" <ul style="list-style-type: none"> <li>- "3.1 Restrictions Common to All Editions"</li> </ul> </li> <li>- "Setup Guide VE" <ul style="list-style-type: none"> <li>- "9.1 Overview"</li> <li>- "9.2 Configuration"</li> <li>- "9.3 Server Switchover Conditions"</li> </ul> </li> <li>- "Operation Guide VE" <ul style="list-style-type: none"> <li>- "4.2 Switchover" <ul style="list-style-type: none"> <li>- "4.3.1 Operations after server switching over"</li> </ul> </li> <li>- "6.2.3 Replacing Servers"</li> </ul> </li> </ul>	Yes	-



No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "6.2.5 Replacing Non-server Hardware"</li> <li>- "6.3.2 Replacing Servers"</li> <li>- "6.3.3 Replacing and Adding Server Components"</li> <li>- "9.1.1 Resources Managed by This Product and Timing of Update"</li> <li>- "User's Guide VE"</li> <li>- "9.1.13 Changing Target Disks of Image Operations"</li> <li>- "11.2 Deleting Managed Servers"</li> <li>- "16.1 Overview"</li> <li>- "16.2 Backup"</li> <li>- "16.3 Restore"</li> <li>- "17.1 Overview"</li> <li>- "17.2 Collecting"</li> <li>- "17.3 Deploying"</li> <li>- "18.2 Settings for Server Switchover"</li> <li>- "Reference Guide (Command) VE"</li> <li>- "3.2 rcxadm server"</li> </ul>		
2	Hardware Support	<p>Supports the following models of hardware:</p> <ul style="list-style-type: none"> <li>- PRIMERGY RX2520 M1</li> <li>- PRIMERGY RX4770 M1</li> </ul>	<ul style="list-style-type: none"> <li>- "Release Notes"</li> <li>- Items 5 in "<a href="#">3.1 Restrictions Common to All Editions</a>"</li> <li>- Items 20 in "<a href="#">3.3 Restrictions in Cloud Edition</a>"</li> <li>- "Design Guide VE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "C.2 WWN Allocation Order during HBA address rename Configuration"</li> <li>- "User's Guide VE"</li> <li>- "17.6 Network Parameter Auto-Configuration for Cloning Images"</li> <li>- "Design Guide CE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "9.4.1.3 Network Configuration for Rack Mount or Tower Servers (Physical/Virtual L-Servers)"</li> </ul>	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "C.2 WWN Allocation Order during HBA address rename Configuration"</li> <li>- "Setup Guide CE"</li> <li>- "B.1.6 Configuration when Creating a Physical L-Server without Specifying a Model Name in the L-Server Template"</li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "15.1.2.1 Creating a Physical L-Server Template"</li> </ul>		
3	Support of VMware Horizon 6.0 (with View)	VMware Horizon 6.0 (with View) can be used for VDI admin servers.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "2.4.2.4 Required Software"</li> <li>- "K.1.1 Function of VDI Coordination"</li> </ul>	-	Yes

## 1.1.5 Overview of Additional Functions in V3.1.2 (T009379LP-05/T009378WP-06)

This section explains the additional functions added in V3.1.2 (T009379LP-05/T009378WP-06).

In Cloud Edition, as well as the modifications of T009379LP-05/T009378WP-06, the additional functions of T009384LP-05/T009383WP-06 are also included.

Table 1.5 Overview of Additional Functions in V3.1.2 (T009379LP-05/T009378WP-06)

No.	Function	Content	Reference Location	VE	CE
1	Hardware Support	<p>Supports the following models of hardware:</p> <ul style="list-style-type: none"> <li>- PRIMERGY BX2560 M1</li> </ul>	<ul style="list-style-type: none"> <li>- "Release Notes"</li> <li>- Items 6 in "<a href="#">3.1 Restrictions Common to All Editions</a>"</li> <li>- Items 21 in "<a href="#">3.3 Restrictions in Cloud Edition</a>"</li> <li>- "Design Guide VE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "User's Guide VE"</li> <li>- "17.6 Network Parameter Auto-Configuration for Cloning Images"</li> <li>- "Design Guide CE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "9.4.1.3 Network Configuration for Rack Mount or Tower Servers (Physical/Virtual L-Servers)"</li> </ul>	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "15.1.2.1 Creating a Physical L-Server Template"</li> <li>- "Setup Guide CE"</li> <li>- "B.3.1 Automatic Network Configuration"</li> <li>- "C.2.4 Automatic Network Configuration"</li> <li>- "C.3.4 Automatic Network Configuration"</li> </ul>		
2	Hardware Support	<p>Supports the following models of hardware:</p> <ul style="list-style-type: none"> <li>- PRIMERGY RX2530 M1</li> <li>- PRIMERGY RX2540 M1</li> </ul>	<ul style="list-style-type: none"> <li>- "Design Guide VE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "User's Guide VE"</li> <li>- "17.6 Network Parameter Auto-Configuration for Cloning Images"</li> <li>- "Design Guide CE"</li> <li>- "2.5 Hardware Environment"</li> <li>- "9.4.1.3 Network Configuration for Rack Mount or Tower Servers (Physical/Virtual L-Servers)"</li> </ul>	Yes	Yes
3	Support of operations of VDI management software using the ROR console	<p>Supports the following operations of VDI management software:</p> <ul style="list-style-type: none"> <li>- Supports the following operations using the ROR console: <ul style="list-style-type: none"> <li>- Registration</li> <li>- Modification</li> <li>- Deletion</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- "Release Notes"</li> <li>- "2.3.2.1 Modification of the Coordination Method with VDI Management Server"</li> <li>- "3.3 Restrictions in Cloud Edition"</li> <li>- "Design Guide CE"</li> <li>- "5.1.2 Roles and Available Operations"</li> <li>- "K.1.2 Preparations for Servers"</li> <li>- "Setup Guide CE"</li> <li>- "C.1.7 OS Property Definition File"</li> <li>- "C.2.1 Creating Definition Files"</li> <li>- "M.1.1 Installation"</li> <li>- "M.1.3 Cancellation"</li> <li>- "M.1.5 Advisory Notes for VMware Horizon View Usage"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "User's Guide for Infrastructure Administrators CE"</li> <li>- "3.1 Setup Wizard"</li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> <li>- "5.15 Registering VDI Management Software"</li> <li>- "7.13 Changing VDI Management Software Settings"</li> <li>- "9.12 Deleting VM Management Software"</li> <li>- "A.1 ROR Console"</li> <li>- "A.2.1 List of Menus"</li> <li>- "A.2.2 Popup Menus"</li> <li>- "A.6 [Resource List] Tab"</li> <li>- "A.7.8 Management Software Attributes"</li> <li>- "A.7.14 L-Server Attributes"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "3.6 rcxadm lserver"</li> <li>- "5.28 rcxadm vdimgr"</li> <li>- "10.9 cfmg_updatevdiconnectinfo (Update VDI Management Server Connection Information) [Windows Manager]"</li> <li>- "10.10 cfmg_updatevdiparams (Update VDI Coordination Parameters) [Windows Manager]"</li> <li>- "Appendix A GUI/CLI"</li> </ul>		
4	Support of obtaining and display of VFAB related information of Converged Fabric	Supports obtaining and display of VFAB related information of Converged Fabric.	<ul style="list-style-type: none"> <li>- "Design Guide CE"</li> <li>- "9.4.8.1 When Creating Network Configuration Information (XML Definition)"</li> <li>- "Operation Guide CE"</li> <li>- "9.5.3.3 Migrating an Ethernet Fabric to a Multiple VFAB Environment"</li> <li>- "User's Guide for Infrastructure Administrators (Resource Management) CE"</li> </ul>	-	Yes

No.	Function	Content	Reference Location	VE	CE
			<ul style="list-style-type: none"> <li>- "A.7.5 Network Device Attributes"</li> <li>- "A.7.6 Virtual Fabric Attributes"</li> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "3.8 rcxadm netdevice"</li> <li>- "15.6.1 Creation"</li> </ul>		
5	Support of additional types of characters for the login passwords of network devices	Additional types of characters can be specified for the login passwords of network devices.	<ul style="list-style-type: none"> <li>- "Reference Guide (Command/XML) CE"</li> <li>- "15.6.1 Creation"</li> <li>- "NS Option Instruction"</li> <li>- "2.2.3.3 Network Configuration Information Files"</li> </ul>	-	Yes
6	Support of additional OSs	<p>Supports the following OSs:</p> <ul style="list-style-type: none"> <li>- RedHat(R) Enterprise Linux (R) 5.11 (for x86)</li> <li>- RedHat(R) Enterprise Linux (R) 5.11 (for Intel64)</li> <li>- RedHat(R) Enterprise Linux (R) 5.11 (for x86) Linux virtual machine function</li> <li>- RedHat(R) Enterprise Linux (R) 5.11 (for Intel64) Linux virtual machine function</li> </ul>	<ul style="list-style-type: none"> <li>- "Design Guide VE"</li> <li>- "2.4.2.1 Required Basic Software"</li> <li>- "Design Guide CE"</li> <li>- "2.4.2.1 Required Basic Software"</li> </ul>	Yes	Yes

# Chapter 2 Compatibility Information

This appendix explains compatibility with earlier versions of Resource Orchestrator.

## Maintaining Compatibility with Earlier Versions

This section explains how to maintain compatibility with earlier versions of Resource Orchestrator.

## Information about Incompatibility with Earlier Versions

This section explains information about incompatibilities between this version and earlier versions.

### V3.1.2 (T009379LP-05/T009378WP-06)

In this chapter, "V3.1.2 (T009379LP-05/T009378WP-06)" indicates the following state:

- Patch T009379LP-05 [Linux Manager] for managers has been applied to V3.1.2
- Patch T009378WP-06 [Windows Manager] for managers has been applied to V3.1.2

### V3.1.2 (T009379LP-04/T009378WP-05)

In this chapter, "V3.1.2 (T009379LP-04/T009378WP-05)" indicates the following state:

- Patch T009379LP-04 [Linux Manager] for managers has been applied to V3.1.2
- Patch T009378WP-05 [Windows Manager] for managers has been applied to V3.1.2

### V3.1.2 (T009379LP-03/T009378WP-04)

In this chapter, "V3.1.2 (T009379LP-03/T009378WP-04)" indicates the following state:

- Patch T009379LP-03 [Linux Manager] for managers has been applied to V3.1.2
- Patch T009378WP-04 [Windows Manager] for managers has been applied to V3.1.2

### V3.1.2 (T009379LP-01/T009378WP-01)

In this chapter, "V3.1.2 (T009379LP-01/T009378WP-01)" indicates the following state:

- Patch T009379LP-01 [Linux Manager] for managers has been applied to V3.1.2
- Patch T009378WP-01 [Windows Manager] for managers has been applied to V3.1.2

### V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

In this chapter, "V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)" indicates the following state:

- Patch T007664LP-05 [Linux Manager] for managers has been applied to V3.1.1
- Patch T007664LP-05 [Linux Manager] for managers has been applied to V3.1.1A
- Patch T007676WP-07 [Windows Manager] for managers has been applied to V3.1.1
- Patch T007676WP-07 [Windows Manager] for managers has been applied to V3.1.1A

### V3.1.0A

V3.1.0A includes V3.1.0 with the following patches applied:

- Patch T007218LP-02 [Linux Manager] for managers
- Patch T007141WP-01 [Windows Manager] for managers

### V3.0 (T006521LP-01/T006268WP-01)

In this chapter, "V3.0 (T006521LP-01/T006268WP-01)" indicates the following state:

- Patch T006521LP-01 [Linux Manager] for managers has been applied to V3.0

- Patch T006268WP-01 [Windows Manager] for managers has been applied to V3.0

Reference

For details on information about incompatibility with earlier versions, refer to the following:

- ["2.1 Information about Incompatibility Common to All Editions"](#)
- ["2.2 Information about Incompatibility with Virtual Edition"](#)
- ["2.3 Information about Incompatibility with Cloud Edition"](#)

**Incompatible Items by Version**

Table 2.1 References to Incompatible Items by Version

Item	Version Before Migration												
	V2.3	V3.0.0	V3.0.0 (T006522L P-01/ T006269W P-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664L P-05/ T007676W P-07)	V3.1.2	V3.1.2	V3.1.2 (T009379L P-02/ T009378W P-02)	V3.1.2 (T009379L P-03/ T009378W P-04)	V3.1.2 (T009379L P-04/ T009378W P-05)	V3.1.2 (T009379L P-05/ T009378W P-06)
Modification of the Coordination Method with VDI Management Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
Obtaining VLAN Information of Network Devices	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
Addition of Resource Type (IP address) in Output Metering Logs Command (ctchg_getmeterlog)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-
Accounting Information Settings for NICs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-
Changing Server Names	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-
CPU Reservation Values when Settings for the Overcommit Function are Disabled	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-
For Reference Method of S-TAG Value in the Case of IPCOM VA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-
For Modification of Messages	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-
Modification of Execution Results in the Command that Updates Information for Network Devices	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-
Network Map and VLAN Trees	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
Access Authority Customize Commands	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
Display of the [Application List] Tab, [Tenant] Tab, and [Usage Charge] Tab on the ROR Console	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-

Item	Version Before Migration												
	V2.3	V3.0.0	V3.0.0 (T006 522L P-01/ T006 269W P-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007 664L P-05/ T007 676W P-07)	V3.1.2	V3.1.2	V3.1.2 (T009 379L P-02/ T009 378W P-02)	V3.1.2 (T009 379L P-03/ T009 378W P-04)	V3.1.2 (T009 379L P-04/ T009 378W P-05)	V3.1.2 (T009 379L P-05/ T009 378W P-06)
Registration of Cloning Images in an Image Pool or Collection of Cloning Images from L-Servers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
Switchover of Maintenance Mode for Network Devices	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
[Software Details] button	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
Keyword search function for L-Platform templates	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
Registration and Migration of Disk Resources to the Storage Pool	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Restoration of the ROR Console [Resource] Tab, Physical L-Server System Images, and Virtual L-Server Snapshots	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Addition of Resource Type in Output Metering Logs Command (ctchg_getmeterlog)	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Displayed Information of Disk Resources for Thin Devices of EMC Symmetrix DMX Storage or EMC Symmetrix VMAX Storage	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
When Auto-configuration of a Network Device Fails	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Releasing a Network Device from Maintenance Mode	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Messages Output when Monitoring Network Devices	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Message Output when Creating A Virtual L-Server	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Response of the L-Platform API "ListDisk"	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Accounting Information Setting for Snapshots	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Hiding Resource Pools if their Resources are not Registered in the L-Platform Template	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-
About Server Names when an L-Platform is Deployed Using the L-Platform API "CreateLPlatform"	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-



Item	Version Before Migration											
	V2.3	V3.0.0	V3.0.0 (T006 522L P-01/ T006 269W P-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007 664L P-05/ T007 676W P-07)	V3.1.2	V3.1.2 (T009 379L P-02/ T009 378W P-02)	V3.1.2 (T009 379L P-03/ T009 378W P-04)	V3.1.2 (T009 379L P-04/ T009 378W P-05)	V3.1.2 (T009 379L P-05/ T009 378W P-06)
The Number of NICs Attached to an Added Server when an L-Platform Template is Created, Copied, or Edited	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Accounting Information Setting for System Disks	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Identification Information of Servers in Usage Charge Detail Window	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Identification Information of Data Disks in Usage Charge Detail Window	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Server OS Type in the SPARC Enterprise Server Registration/Agent Registration Window	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
For Modification of Messages	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
Editing the Home Messages	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-
When Using Linux Manager with Managed Servers Using Local Boot and SAN Data Environments	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-
The Number of Services of Agents	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-
For Modification of Messages	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-
For Modification of Messages	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
Output Results of the rcxadm lserver show Command	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
Date Format Displayed on the Dashboard (System Conditions)	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
Date Format Displayed on the Dashboard (Pool Conditions)	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
L-Server Template Setting Values that Occur in L-Platform Reconfiguration	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
Registering Image Information Specifying Cloning Images that Include Data Disks	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
The Number of Disks That Can Be Attached Using the L-Platform API	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
For Modification of Messages	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
L-Server Information Output Format (XML)	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-

Item	Version Before Migration												
	V2.3	V3.0.0	V3.0.0 (T006 522L P-01/ T006 269W P-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007 664L P-05/ T007 676W P-07)	V3.1.2	V3.1.2	V3.1.2 (T009 379L P-02/	V3.1.2 (T009 379L P-03/ T009 378W P-04)	V3.1.2 (T009 379L P-04/ T009 378W P-05)	V3.1.2 (T009 379L P-05/ T009 378W P-06)
XML Format of NIC Definitions for Virtual L-Servers	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-
XML Format of Physical L-Server Templates	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-
Display Format of the Commands for Displaying Address Set Resources	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-
Disk Sharing Method Used When Creating L-Servers and Attaching Disks	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-
JavaVM memory (Java Heap) size expansion	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-
Show/Hide Functions of the [Logout] Dialog	Yes	-	-	-	-	-	-	-	-	-	-	-	-
Tree Names	Yes	-	-	-	-	-	-	-	-	-	-	-	-
Role Names	Yes	-	-	-	-	-	-	-	-	-	-	-	-
The Supervisor Role	Yes	-	-	-	-	-	-	-	-	-	-	-	-
Privileged User Created During Installation	Yes	-	-	-	-	-	-	-	-	-	-	-	-

Yes: Contains incompatibilities  
 -: Compatible

## 2.1 Information about Incompatibility Common to All Editions

This section explains information about incompatibility common to all editions.

### 2.1.1 Maintaining Compatibility with Earlier Versions

This section explains how to maintain compatibility with earlier versions of Resource Orchestrator.

#### 2.1.1.1 Configuring Display of Errors that Occur on Related Products

This section describes how to configure whether to display errors that occur on related products.

When an error occurs during operation of related products using commands, the related product name and an error message are displayed. As with earlier versions of Resource Orchestrator, to prevent display of these error messages, configure the following definition file.



Note

Use the UTF-8 character code for this file.

If you edit and save a UTF-8 text file using Windows Notepad, the Byte Order Mark (BOM) is stored in the first three bytes of the file,

and the information specified on the first line of the file will not be analyzed correctly. When using Notepad, specify the information from the second line.

Location of the Definition File

[Windows Manager]  
*Installation\_folder*\SVROR\Manager\etc\customize\_data

[Linux Manager]  
 /etc/opt/FJSVrcvmt/customize\_data

 Information

The sample definition file (product\_report.rcxprop.sample) is stored in the location above.  
 When using the sample as the definition file, place the file after deleting the ".sample" included in the file name.

Definition File Name

product\_report.rcxprop

Definition File Format

Describe each line of the definition file in the following format:

<i>Item_Name= Values</i>
--------------------------

Definition File Items

Table 2.2 List of Items

Item Name	Description
product_report	<p>When obtaining the operation results for each resource (including command executions), specify whether the information returned is to be backward compatible or not.</p> <ul style="list-style-type: none"> <li>- true New format</li> <li>- false Conventional format</li> </ul> <p>To configure the backward compatible mode, specify false.</p> <p>When omitted, true is configured and the information is returned in the new format.</p> <p>When an invalid value is specified, the information is returned in the new format.</p>
product_report_for_cli	<p>Specify whether to make command error output backward compatible.</p> <p>If false is specified for product_report, that setting will be given priority, and errors will be output in the conventional format regardless of the setting for this parameter.</p> <ul style="list-style-type: none"> <li>- true New format</li> <li>- false Conventional format</li> </ul> <p>Not to include the information on related products in command error output, specify false.</p> <p>When omitted, true is configured and the error is output in the new format.</p> <p>When an invalid value is specified, the error is output in the new format.</p>

## **2.1.2 Information about Incompatibility between V3.1.2 and V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)**

---

This section explains information about incompatibility between V3.1.2 and V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07).

### **2.1.2.1 Network Map and VLAN Trees**

#### **Details of Modification**

The network map and VLAN tree cannot be used.

#### **Corrective Action**

Use NetworkViewer.

## **2.1.3 Information about Incompatibility between V3.1.1/V3.1.1A and V3.1.0A**

---

This section explains information about incompatibility between V3.1.1/V3.1.1A and V3.1.0A.

### **2.1.3.1 Server OS Type in the SPARC Enterprise Server Registration/Agent Registration Window**

#### **Details of Modification**

The server OS type displayed in the server registration window and agent registration window for SPARC Enterprise was changed from "Solaris Container" to "VM Host". [Virtual Edition] [Cloud Edition]

## **2.1.4 Information about Incompatibility between V3.0.0 and V2.3**

---

This section explains information about incompatibility between V3.0.0 and V2.3.

### **2.1.4.1 Show/Hide Functions of the [Logout] Dialog**

#### **Details of Modification**

- Logout functions in individual operation windows for the earlier version of RC Console (\*) are no longer available.
- The show/hide setting for the logout dialog in the Option dialog that opens when [Tool] - [Option] is selected from the ROR Console window on the [Resource] tab is no longer available.

\*Note: The RC console has been renamed the "ROR console" in V3.0.0 and later.

#### **Corrective Action**

To log out, click "Logout" on the global header.

### **2.1.4.2 Tree Names**

#### **Details of Modification**

The name of the tree that displays LAN switches was changed from the "network resource tree" to the "network device tree".

In Cloud Edition, not only LAN switches (L2 switches) but also firewalls are displayed in the tree.

In order to manage LAN switches (other than switch blades) registered before migration using Cloud Edition, it is necessary to delete the LAN switches (other than switch blades) and then re-register them as network devices.

## 2.2 Information about Incompatibility with Virtual Edition

---

This section explains information about incompatibility with Virtual Edition.

### 2.2.1 Information about Incompatibility between V3.1.0A and V3.1.0

---

This section explains information about incompatibility between V3.1.0A and V3.1.0.

#### 2.2.1.1 Editing the Home Messages

This section explains how to edit the information displayed in the lower part of the Home window on the ROR console.



.....  
The definition files for display control of VM pool attribute information provided to remain compatible between V3.0.0 and this version of Resource Orchestrator.  
.....

The information is displayed for all users.

Directly edit the file in which the information is described.

#### Location of Information Files

[Windows]

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\en\VirtualEdition

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\ja\VirtualEdition

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\en\CloudEdition

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\ja\CloudEdition

[Linux]

/opt/FJSVrcvmr/rails/public/man/en/VirtualEdition

/opt/FJSVrcvmr/rails/public/man/ja/VirtualEdition

/opt/FJSVrcvmr/rails/public/man/en/CloudEdition

/opt/FJSVrcvmr/rails/public/man/ja/CloudEdition

File Name

home.html

Character Code

UTF-8

Default Value

YYYY-MM-DD, Information 1

Settings

Date

The format for date is not specified.

When the date will not be displayed, "<th></th>" must be entered.

Message

The message must be entered between "<td>" and "</td>".



.....  
Collect backups of HTML files after editing the information.  
.....

## Example

### home.html

```
<!-- Information Area -->
<table class="text_left_span" border="0">
  <tr>
    <th>
      YYYY-MM-DD
    </th>
    <td>
      Information 2
    </td>
  </tr>
  <tr>
    <th>
      YYYY-MM-DD
    </th>
    <td>
      Information 1
    </td>
  </tr>
</table>
<!-- Information Area -->
```

## Point

The contact information can be notified to all users, using the information area.

- Configure the following settings to edit the information on the ROR console.
  1. Delete the current definition file in which the information is described.

[Windows]

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\en\VirtualEdition

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\ja\VirtualEdition

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\en\CloudEdition

C:\Fujitsu\ROR\SVROR\Manager\rails\public\man\ja\CloudEdition

[Linux]

/opt/FJSVrcvmr/rails/public/man/en/VirtualEdition

/opt/FJSVrcvmr/rails/public/man/ja/VirtualEdition

/opt/FJSVrcvmr/rails/public/man/en/CloudEdition

/opt/FJSVrcvmr/rails/public/man/ja/CloudEdition

## Note

After deleting the definition files in which the information is described, the information will not be displayed. If the currently displayed information is necessary, back up the definition file and restore the information using the information edit operation.

2. Log out from the ROR console.
3. Restart your browser and log in to the ROR console.

## Note

If the operation is changed to edit the information using the ROR console, the information files cannot be edited directly.

For details on how to edit the information using the ROR console, refer to "2.1 Editing the Home Messages" in the "User's Guide VE".

---

## 2.3 Information about Incompatibility with Cloud Edition

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This section explains information about incompatibility with Cloud Edition.

### 2.3.1 Maintaining Compatibility with Earlier Versions

---

This section explains how to maintain compatibility with earlier versions of Resource Orchestrator.

- [2.3.1.1 Overcommit Definition Files](#)
- [2.3.1.2 Definition Files for Display Control of VM Pool Attribute Information](#)
- [2.3.1.3 Sorting the Resource List in the Tree](#)
- [2.3.1.4 Server Status of L-Platform API "GetLPlatformConfiguration" \(IserverStatus\)](#)

#### 2.3.1.1 Overcommit Definition Files

This section explains overcommit definition files.

The following settings are configured in overcommit definition files:

- VM pools used for overcommit
- Calculation methods for the available space for VM pools used for overcommit
- Configurations for Thin Provisioning attributes on storage pools



#### Point

---

Overcommit definition files are provided to maintain compatibility between V3.0.0 and V2.3 of FUJITSU Software ServerView Resource Orchestrator. Do not use overcommit definition files for anything other than the intended use.

Overcommit definition files may not be provided in future versions of Resource Orchestrator. Use the following procedure to transfer the configuration information and start to use the specification method in V3.1 at an early stage.

- Transfer of Configurations for Overcommit Attributes
    1. Execute the `rcxmigrate_oc` command.

For details on the `rcxmigrate_oc` command, refer to "5.2 `rcxmigrate_oc`" in the "Reference Guide (Command/XML) CE".
    2. Delete the following key and value from the definition file.
      - `over_commit`
      - `over_commit_calculate_by_reserve_value`
  - Transfer of Configurations for Thin Provisioning Attributes
    1. Delete the following key and value from the definition file.
      - `thin_provisioning`
- 

#### Storage Location of the Definition File

[Windows Manager]

`Installation_folder\SVROR\Manager\etc\customize_data`

[Linux Manager]

`/etc/opt/FJSVrcvmr/customize_data`

## Definition File Name

pool.rcxprop

## Definition File Format

```
over_commit=pool1,pool2,...  
over_commit_calculate_by_reserve_value=true|false  
thin_provisioning=pool1,pool2,...
```

### over\_commit

Specify the VM pools used for overcommit.

Multiple VM pool names can be specified. When specifying multiple resource pools, separate them using commas (",").

If the VM pool is arranged in a hierarchy, specify the name using an absolute path.

For a VM pool directly under the orchestration tree, specify only its name.



### Example

```
over_commit=VMPool,/folder1/VMPool
```



### Point

When creating L-Servers that use overcommit and L-Servers that do not, both a VM pool that uses overcommit and a VM pool that does not must be created.

After editing overcommit definition files, open the [Resource] tab of the ROR console, and then confirm that the modification has been reflected on the resource pool attributes displayed in the resource details or the resource pool list.

### over\_commit\_calculate\_by\_reserve\_value

Specify the calculation method for available space for a VM pool used for overcommit.

One of the following values can be specified.

- When using a reservation value  
Specify "true".
- When using a maximum value  
Specify "false".

"false" is specified in the following cases:

- When specification of "over\_commit\_calculate\_by\_reserve\_value" is omitted
- When an invalid value is specified



### Example

```
over_commit_calculate_by_reserve_value=true
```

### thin\_provisioning

Specify names of storage pools that have Thin Provisioning attributes configured.

Multiple storage pool names can be specified. When specifying multiple resource pools, separate them using commas (",").

If a storage pool is arranged in a hierarchy, specify the name using an absolute path.

For a storage pool directly under the orchestration tree, specify only its name.



## Example

`thin_provisioning=StoragePool./folder/StoragePool`

## Note

Thin Provisioning attributes of a storage pool are configured when the storage pool is created.

If the `thin_provisioning` key is specified in a overcommit definition file (the file is configured when a storage pool is created and is loaded into Resource Orchestrator), a storage pool with Thin Provisioning attributes will be created.

If the `thin_provisioning` key is not specified in the definition file, a storage pool without Thin Provisioning attributes will be created.

For storage pools that have already been created, the setting for Thin Provisioning attributes cannot be changed even if the following operations are performed:

- Changing the value of the `thin_provisioning` key
- Changing storage pool names

When creating storage pools for which Thin Provisioning attributes are configured, specify the names of storage pools that are planned for the `thin_provisioning` key beforehand.

## 2.3.1.2 Definition Files for Display Control of VM Pool Attribute Information

This section explains the definition files for display control of VM pool attribute information.

### Point

The definition files for display control of VM pool attribute information provided to remain compatible between V3.0.0 and this version of Resource Orchestrator.

When performing upgrade from ROR V3.0.0, the definition files for display control of VM pool attribute information are created to provide compatibility between V3.0.0 and V3.1 for execution of the `rcxadm pool list -extend attributes` command.

To display the "ATTRIBUTES" item of a VM pool as a result of the command execution, delete this definition file.

#### Storage Location of the Definition File

[Windows Manager]

`Installation_folder\SVROR\Manager\etc\customize_data`

[Linux Manager]

`/etc/opt/FJSVrcvmr/customize_data`

#### Definition File Name

`cli_notlist_oc.rcxprop`

- If the definition file exists

The "ATTRIBUTES" item of a VM pool will not be displayed when the `rcxadm pool list -extend attributes` command is executed.

- If the definition file does not exist

The "ATTRIBUTES" item of a VM pool will be displayed when the `rcxadm pool list -extend attributes` command is executed.

## 2.3.1.3 Sorting the Resource List in the Tree

This section describes the way to change the sorting order of the resource list in the tree.

In V3.1.0, the tree on the ROR console [Resource] tab displays the resources listed in ascending order of name, by resource type.

As with earlier versions of Resource Orchestrator, to display resources in order of registration or creation, edit the following definition file.

#### Location of the Definition File

[Windows Manager]  
*Installation\_folder*\SVROR\Manager\etc\customize\_data

[Linux Manager]  
/etc/opt/FJSVrcvmt/customize\_data

#### Definition File Name

gui\_config.rcxprop

#### Definition File Format

RESOURCE\_TREE\_SORT\_ORDER=RESOURCE\_TREE\_ORDER

#### Definition File Items

RESOURCE\_TREE\_ORDER

Specify the display order using one of the following options:

name

Displays the resource list in alphabetical order of resource names.

registered

Displays the resource list in the order in which the resources were registered or created.



#### Note

- To enable the above-mentioned setting, restart the manager after editing the definition file.
- The orders of some lists, such as for blade servers in the server tree, cannot be changed.

### 2.3.1.4 Server Status of L-Platform API "GetLPlatformConfiguration" (IserverStatus)

This section explains the server status of L-Platform API "GetLPlatformConfiguration".

The program has been corrected so that the server status of L-Platform API "GetLPlatformConfiguration" (IserverStatus) is no longer returned.

#### Details of Modification

In the L-Platform API "GetLPlatformConfiguration" specifications, the server status (IserverStatus) was not contained in the response but was returned due to a problem. In V3.1.1A or later, the server status is no longer contained in the response.

#### Corrective Action

If it is expected that the server status is contained in the response from the L-Platform API "GetLPlatformConfiguration", edit the following definition file.

1. Open the definition file using a text editor.

The definition file is stored in the following location.

- [Windows Manager]  
*Installation\_folder*\RCXCFMG\config\api\_config.xml
- [Linux Manager]  
/etc/opt/FJSVcfmg/config/api\_config.xml

2. Set the following items in the definition file.

- Key name  
getlplatformconfiguration-lservestatus
- Value to be Set  
true: Return the server status  
false: Do not return the server status (default)

3. Save the file.

4. Restart the manager.

Refer to "2.1 Starting and Stopping Managers" in the "Operation Guide CE" for information on the manager restart method.

## 2.3.2 Information about Incompatibility between V3.1.2 (T009379LP-05/T009378WP-06) and V3.1.2 (T009379LP-04/T009378WP-05)

---

### 2.3.2.1 Modification of the Coordination Method with VDI Management Server

Details of Modification

Modify the method for coordinating the VDI management server with Resource Orchestrator to use the VDI coordination function.

- For V3.1.2(T009378WP-05)

Use the following definition files:

VDI Management Server Definition File

Storage Location of the Definition File

[Windows Manager]  
*Installation\_folder*\SVROR\Manager\etc\customize\_data

Definition File Name

vdi\_management\_info.rcxprop

Definition File Format

Describe each line of the definition file in the following format:

<i>Key = Value</i>
--------------------

Definition File Items

Specify the following items:

Key	Value
<i>vdi_number.name</i>	Specify the VDI management server name. Enter a character string beginning with an alphabetical character and containing up to 15 alphanumeric characters and hyphens ("-"). Specify the name using a unique value for each VDI management server.
<i>vdi_number.type</i>	Specify the VDI management server type. When using VMware Horizon View, specify "vmwareview".
<i>vdi_number.ipaddr</i>	Specify the IP address of the VDI management server name used for control from Resource Orchestrator.
<i>vdi_number.user</i>	Specify the administrator user name of the VDI management server. Enter a character string containing up to 84 alphanumeric characters and symbols (ASCII characters 0x20 to 0x7e).

Key	Value
	For details, refer to "K.1.1 Function of VDI Coordination" in the "Design Guide CE".
<i>vdi_number.password</i>	Specify the administrator password of the VDI management server.  Enter a character string containing up to 128 alphanumeric characters and symbols (ASCII characters 0x20 to 0x7e).
<i>vdi_number.vmmgr</i>	Specify the name of the VM management software registered on the VDI management server which is used in Resource Orchestrator.  When there are more than one VM management software, specify the VM management software names, separated by commas (",").
<i>vdi_number.connect_info</i>	Specify the connection information of the VDI management server specified when the VDI user uses the virtual desktop.  Enter a character string containing up to 1024 alphanumeric characters and symbols (ASCII characters (0x20 to 0x2b, 0x2d to 0x7e)) other than commas (",").  Up to three sets of connection information can be specified. When specifying multiple sets of connection information, specify the information separated by commas (",").  When deploying L-Platforms, notification of the first connection information is made using email.  When using VMware Horizon View Client  Specify the host name or IP address of the VDI management server used by the virtual desktop user as the connection destination.

## Note

It is not necessary to restart the ROR manager after creating the definition files.

Enter an item to define on each line for each VDI management server.

When adding comments, start the line with a number sign ("#").

Start number with 1 and increase it by 1 for each additional management server.

When multiple lines have the same key, the line described last is valid.

When multiple VDI management servers with the same VDI management server name are defined, the definition described last is valid.

In VDI management server definitions, any definitions with missing items or invalid values are ignored.

Blank spaces at the start and end of lines, and before and after "=" are ignored.

## Example

```
#VDI1
vdi1.name=horizonview1
vdi1.type=vmwareview
vdi1.ipaddr=192.168.2.1
vdi1.user=viewdomain1\admin1
vdi1.password=password1
vdi1.vmmgr=vc1,vc2
vdi1.connect_info=192.168.123.1, http://192.168.123.1/vmwareview/
```

```
#VDI2
vdi2.name=horizonview2
vdi2.type=vmwareview
vdi2.ipaddr=192.168.2.2
vdi2.user= viewdomain2\admin2
vdi2.password=password2
vdi2.vmmgr=vc3,vc4
vdi2.connect_info=192.168.123.2
```

- For V3.1.2(T009378WP-06)

Register a VDI management server with Resource Orchestrator as VDI management software.

For details on how to register the VDI management software, refer to "5.15 Registering VDI Management Software" in the "User's Guide for Infrastructure Administrators (Resource Management) CE".

### Corrective Action

Use the following procedure to register the VDI management server as VDI management software in Resource Orchestrator based on the information in the VDI management server definition file.

When the information has not been registered, register it quickly as until it is registered, creation, modification, and deletion of L-Platforms and L-Servers for which the VDI coordination is enabled cannot be performed.

However, the registration does not affect the use of already created L-Platforms and L-Servers for which VDI coordination is enabled.

After performing the procedure, the VDI management server definition files can be deleted.

VDI management server definition files can be migrated using the migration tool for VDI management server definition information.

For details on how to use the migration tool, refer to "[How to Use the Migration Tool for VDI Management Server Definition Information](#)".

1. Following the table below, assign the information from the VDI management server definition file to the corresponding items to enter in the registration dialog of the VDI management software.

VDI Management Server Definition File		Registering VDI Management Software
Item Name	Key	
VDI management server name	<i>vdi_number.name</i>	Specify in [Management software name].
VDI management server type	<i>vdi_number.type</i>	In step 2, select the registration dialog in the VDI management software based on the type of the VDI management server.  There are no relative items to enter in the registration dialog in the VDI management software.
IP address of the VDI management server	<i>vdi_number.ipaddr</i>	Specify in [IP address].
Administrator user name of the VDI management server	<i>vdi_number.user</i>	Specify in [User ID].
Administrator password of the VDI management server.	<i>vdi_number.password</i>	Specify in [Password].
VM management software name	<i>vdi_number.vmmgr</i>	Specify in [VM management software list].
Connection information of the VDI management server	<i>vdi_number.connect_info</i>	Specify in [Connection information].

## Note

Specify the same VDI management server name as defined in the VDI management software definition file for the [Management software name] specified when registering the VDI management software.

When the names are not the same, the modification and deletion of already created L-Platforms and L-Servers for which VDI coordination is enabled may fail.

If VDI management software is accidentally registered with an unmatched [Management software name], delete the VDI management software from Resource Orchestrator, and then register it using a matching [Management software name].

2. Register the VDI management software. For details, refer to "5.15 Registering VDI Management Software" in the "User's Guide for Infrastructure Administrators (Resource Management) CE".
3. When multiple VDI management servers are registered in the VDI management server definition file, repeat steps 1 and 2 as many times as there are VDI management servers.

## How to Use the Migration Tool for VDI Management Server Definition Information

Perform the following procedure:

1. Log in to the target server as a system administrator (with OS administrator privileges).
2. Execute the migration tool.

Execute the following command from the command prompt:

```
> cd Installation_folder\SVROR\Manager\opt\FJSVrcxmr\sys\VdiMigrationTool <RETURN>
> migrate_vdi.bat <RETURN>
```

It may take a few minutes to complete this process.

It takes approximately two minutes to migrate VDI management server definition information of a single VDI management server. When multiple VDI management servers are the target, the time to complete this process increases by around 40 seconds per additional server.

The execution result of the migration tool is output to the standard output for each VDI management server, in the following format.

- When migration of the VDI management server information is complete

```
Succeeded: VDI management server name, ip=IP address of the VDI management server
```

- When migration was skipped because a VDI management server with the same name has been already registered

```
Warning: VDI management server name, already exist
```

## Example

### Output Example of Execution Results

```
Succeeded: horizonview1, ip=192.168.2.1
Warning: horizonview2, already exist
Succeeded: horizonview3, ip=192.168.2.2
```

Migration is executed in order, starting with the VDI management server defined at the beginning of the VDI management server definition file.

When migration of all VDI management server definitions is completed, the migration tool exits correctly with the exit status "0". When migration of a VDI management server definition fails, the migration tool ends abnormally with the exit status "1". In this case, an error message is output in the standard error output.

Resolve the cause of the error based on the error message, and then re-execute the migration tool.

## Point

- Execute the migration tool with the manager of Resource Orchestrator running.
- Ensure that the migration tool is executed in the storage folder.

### 3. Confirm the registration results of VDI management software.

Execute the following command from the command prompt to confirm that the information of the VDI management server that was defined in the VDI management server definition file is displayed as VDI management software.

```
> Installation_folder\SVROR\Manager\bin\rcxadm vdimgr list <RETURN>
```

## Example

### Display Example of the Command for Displaying a List of VDI Management Software

```
> C:\Program Files (x86)\Resource Orchestrator\SVROR\SVROR\Manager\bin\rcxadm vdimgr list
<RETURN>
```

NAME	TYPE	IPADDRESS	STATUS
-----	----	-----	-----
horizonview1	Horizon View	192.168.2.1	normal
horizonview2	Horizon View	192.168.2.2	normal

The above example is for the case where the VDI management server definition file is defined as follows.

```
#VDI1
vdi1.name=horizonview1
vdi1.type=vmwareview
vdi1.ipaddr=192.168.2.1
vdi1.user=viewdomain1\admin1
vdi1.password=password1
vdi1.vmmgr=vc1,vc2
vdi1.connect_info=192.168.123.1, http://192.168.123.1/vmwareview/
#VDI2
vdi2.name=horizonview2
vdi2.type=vmwareview
vdi2.ipaddr=192.168.2.2
vdi2.user= viewdomain2\admin2
vdi2.password=password2
vdi2.vmmgr=vc3,vc4
vdi2.connect_info=192.168.123.2
```

## 2.3.2.2 Obtaining VLAN Information of Network Devices

### Details of Modification

To suppress the increase of the load of the product, the initial collection process used to obtain VLAN information from network devices after resource registration has been changed.

- For V3.1.2 (T009379LP-04/T009378WP-05)

After resource registration of network devices, the VLAN information of all network devices is collected within 20 seconds.

- For V3.1.2 (T009379LP-05/T009378WP-06)

After resource registration of network devices, the VLAN information of all network devices is collected sequentially within the set monitoring interval (\*1).

\*1: This is set in the Interval element of network configuration information.

## Effect

After resource registration of network devices, it may take time until the VLAN information is reflected on the network device attribute information on the Resource Details window of the ROR console.

## Corrective Action

No action is required.

After resource registration of network devices, if it is necessary to check reflection of VLAN information quickly, select the relevant device and then select [Update] from the pop-up menu.

## 2.3.3 Information about Incompatibility between V3.1.2 (T009379LP-03/T009378WP-04) and V3.1.2 (T009379LP-02/T009378WP-02)

---

This section explains information about incompatibility between V3.1.2 (T009379LP-03/T009378WP-04) and V3.1.2 (T009379LP-01/T009378WP-01).

### 2.3.3.1 Addition of Resource Type (IP address) in Output Metering Logs Command (ctchg\_getmeterlog)

#### Details of Modification

IP address is added to the target resources of metering logs.

#### Effect

The IP address is added to the resource type of metering logs which are output by the Output Metering Logs command (ctchg\_getmeterlog).

The "resource\_type" entry of metering logs for IP address is "ip\_addr".

#### Corrective Actions

When the command output results are analyzed by programs, it is necessary to skip reading of added information.

### 2.3.3.2 Accounting Information Settings for NICs

#### Details of Modification

The following changes apply to the accounting information settings for NICs.

- For V3.1.2 (T009379LP-01/T009378WP-01)

The unit price of the NIC is included in the unit price of the template products.

- For V3.1.2 (T009379LP-03/T009378WP-04)

If charging for NICs has been enabled in the patch application procedure, the product category for NICs is added to the accounting information settings.

The unit price of NICs is set as a product of NICs.

#### Corrective Action

- If charging for NICs has been enabled in the patch application procedure:

Set the unit prices of the NICs as the products of the NICs in the accounting information settings.

If it is not necessary to charge for the NICs, specify 0s for the unit prices of the NICs or do not define the products of the NICs.



- If charging for NICs has not been enabled in the patch application procedure:

There is no incompatibility. No action is required.

### 2.3.3.3 Changing Server Names

#### Details of Modification

With this version, if one of the following conditions is satisfied, changing a server name by L-Platform reconfiguration also changes the L-Server name.

- While "18.5 Setting the Method for Setting Resource Names" in the "Setup Guide CE", the method to set L-Server names is set to "Server name" (method number: 3).
- While "18.5 Setting the Method for Setting Resource Names" in the "Setup Guide CE", the method to set L-Server names is set to "Host name" (method number: 2), and while "18.4 Setting the Host Names for Virtual Servers" in the "Setup Guide CE", the method to set host names is set to "Server name" (method number: 2).

#### Effect

If the server virtualization software is not VMware, a server name can be changed by L-Platform reconfiguration only when the server is stopped.

If multiple server names are changed in one L-Platform reconfiguration, any of the old server names cannot be used as the new name of another server.

#### Corrective Action

If the server virtualization software is not VMware, stop the server before changing a server name.

If an old server name needs to be used as the new name of another server, divide the operation into multiple L-Platform reconfigurations.

### 2.3.3.4 CPU Reservation Values when the Overcommit Function is Disabled Details of Modification

#### Details of Modification

CPU reservation values that are set for VM guests when the overcommit function is disabled have been changed as follows.

- For V3.1.2 (T009379LP-01/T009378WP-01)

The same value as specified for CPU performance

- For V3.1.2 (T009379LP-03/T009378WP-04)

Zero

#### Effect

When displaying CPU reservation values with the server virtualization software, "0" is displayed for the servers deployed after applying this version.

#### Corrective Action

No action is necessary.

### 2.3.4 Information about Incompatibility between V3.1.2 (T009379LP-02/T009378WP-02) and V3.1.2

---

This section explains information about incompatibility between V3.1.2 (T009379LP-01/T009378WP-01) and V3.1.2.

#### 2.3.4.1 For Reference Method of S-TAG Value in the case of IPCOM VA

## Details of Modification

Reference method of S-TAG value for IPCOM VA in ROR console has changed.

- For V3.1.2

Confirm S-TAG value referring to "S-TAG" column.

Columns	Description
Port Number	The number of the port of the selected network device is displayed.
Port Name	The name assigned to the port of the selected network device is displayed.
Member Port	When the name of a port with link aggregation is displayed for the port name, the port names of the physical port with link aggregation are displayed separated by commas (","). When the physical port name is displayed as the port name, a hyphen ("-") is displayed. This is not displayed when an Ethernet Fabric is selected.
Link Status	The operational status of the port is displayed. One of the following is displayed: <ul style="list-style-type: none"> <li>- up</li> <li>- down</li> <li>- unknown</li> </ul>
Speed/DuplexMode	The speed and duplex mode of the operating port are displayed.
Link Aggregation Group	When the name of the port which comprises the link aggregation is displayed as the port name, the link aggregation name is displayed. When the name of the port which comprises the link aggregation is not displayed as the port name, a hyphen ("-") is displayed. This is only displayed when an Ethernet Fabric is selected.
Port Type	The port type of the network device is displayed. One of the following is displayed: <ul style="list-style-type: none"> <li>- EP</li> <li>- CIR</li> <li>- EP (dot1ad) Displayed when using the EP port for sending and receiving of the IEEE802.1ad frame.</li> <li>- CIR (dot1ad) Displayed when using the CIR port for sending and receiving of the IEEE802.1ad frame.</li> </ul> This is only displayed when an Ethernet Fabric is selected.
S-TAG	The S-TAG values used by the IPCOM VA virtual interface are displayed. This is only displayed when a IPCOM VA is selected.

- For V3.1.2 (T009379LP-01/T009378WP-01)

Confirm S-TAG value referring to "VLAN ID" and "Distribution Mode" columns.

Columns	Description
Port Number	The number of the port of the selected network device is displayed.
Port Name	The name assigned to the port of the selected network device is displayed.
Member Port	When the name of a port with link aggregation is displayed for the port name, the port names of the physical port with link aggregation are displayed separated by commas (","). When the physical port name is displayed as the port name, a hyphen ("-") is displayed. This is not displayed when an Ethernet Fabric is selected.
Link Status	The operational status of the port is displayed. One of the following is displayed:

Columns	Description
	<ul style="list-style-type: none"> <li>- up</li> <li>- down</li> <li>- testing</li> <li>- unknown</li> <li>- dormant</li> <li>- notPresent</li> <li>- lowerLayerDown</li> </ul>
Speed/DuplexMode	The speed and duplex mode of the operating port are displayed.
Link Aggregation Group	<p>When the name of the port which comprises the link aggregation is displayed as the port name, the link aggregation name is displayed.</p> <p>When the name of the port which comprises the link aggregation is not displayed as the port name, a hyphen ("-") is displayed.</p> <p>This is only displayed when an Ethernet Fabric is selected.</p>
Port Type	<p>The port type of the network device is displayed.</p> <p>One of the following is displayed:</p> <ul style="list-style-type: none"> <li>- EP</li> <li>- CIR</li> <li>- EP (dot1ad) Displayed when using the EP port for sending and receiving of the IEEE802.1ad frame.</li> <li>- CIR (dot1ad) Displayed when using the CIR port for sending and receiving of the IEEE802.1ad frame.</li> </ul> <p>This is only displayed when an Ethernet Fabric is selected.</p>
Distribution Mode	<p>Displays packet distribution mode for ports.</p> <p>One of the following is displayed:</p> <ul style="list-style-type: none"> <li>- VLAN(S-TAG)</li> <li>- MAC</li> <li>- VLAN(C-TAG)</li> <li>- no-distribution</li> <li>- VLAN(other)</li> </ul> <p>This is only displayed when a IPCOM VA is selected.</p>
VLAN ID	<p>The VLAN ID values used for distribution to an IPCOM VA virtual interface are displayed.</p> <p>This is only displayed when a IPCOM VA is selected.</p>

### Corrective Action

When confirm S-TAG value, refer to "VLAN ID" and "Distribution Mode" columns.

For details on columns, refer to "A.7.5 Network Device Attributes" in the "User's Guide for Infrastructure Administrators (Resource Management) CE".

### 2.3.4.2 For Modification of Message

#### Details of Modification

Message outputted when the state of the port of the network device changed has changed.

Message outputted when state of port of network device changes into unknown.

- For V3.1.2

FJSVrcx:INFO:22784:device:Port *port\_name* status change from *prev\_status* to *cur\_status* has been detected.

- For V3.1.2 (T009379LP-01/T009378WP-01)

FJSVrcx:INFO:22784:device:Port *port\_name* status change from *prev\_status* to *cur\_status* has been detected.(*cause*)

### Corrective Action

When monitoring the corresponding messages output by Resource Orchestrator using other monitoring software, it is necessary to change the monitored messages.

When the messages before modification are described in the operation guide of a system created by a customer, it is necessary to revise the operation guide.

## 2.3.4.3 For Modification of Execution Result in Command that update Information for Network Devices

### Details of Modification

The case that ends with error has added to command that update information for network devices(rcxadm netdevice refresh -recreate).

- For V3.1.2

Command that update information for network devices (rcxadm netdevice refresh -recreate) ends with the normality

- For V3.1.2 (T009379LP-01/T009378WP-01)

When SNMP connection to targeted network device is failure, command that update information for network devices (rcxadm netdevice refresh -recreate) ends with the error

### Corrective Action

It is necessary to solve the cause of error when command that update information for network devices(rcxadm netdevice refresh -recreate) ends with error.

For rcxadm netdevice command, refer to "3.8 rcxadm netdevice" in the "Reference Guide (Command/XML) CE"

## 2.3.5 Information about Incompatibility between V3.1.2 and V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

---

This section explains information about incompatibility between V3.1.2 and V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07).

### 2.3.5.1 Access Authority Customize Commands

#### Details of Modification

The following access authority customize commands have become unavailable.

- ctac\_getauthority
- ctac\_updauthority

#### Corrective Action

Use the following command for role operations.

- rcxadm role

Executing the access authority customize commands displays the following message and processes nothing.

```
This command is no longer available.  
Use the "rcxadm role" command instead.
```

## 2.3.5.2 Display of the Application List Tab, Tenant Tab, and Usage Charge Tab on the ROR Console

### Details of Modification

The display of the **Application List** tab, **Tenant** tab, and **Usage Charge** tab on the ROR console has changed as follows:

- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

Set whether to display or hide the tab with the following settings in the definition file:

Tab	Definition file	Setting item	Value to be set
Application List	custom_config.xml	workflow-mode	"1": Display tab "2": Hide tab
Tenant	portal.properties	allowUpdate	"on": Display tab "off": Hide tab (*1)
Usage Charge	accounting.properties	accounting.use	"yes": Display tab "no": Hide tab

\*1: This is a setting for the tenant administrator. The tab is always displayed for the dual-role administrator and infrastructure administrator.

- For V3.1.2

It is possible to make settings to display or hide the tabs according to the role of the user who logs in. The following shows the meaning of the settings in existing definition files:

Tab	Definition file	Setting item	Value to be set
Application List	custom_config.xml	workflow-mode	"1": Use the functionality of the application process. "0": Do not use the functionality of the application process.
Tenant	portal.properties	allowUpdate	The setting is invalid.
Usage Charge	accounting.properties	accounting.use	"yes": Calculate usage charges. "no": Do not calculate usage charges.

### Corrective Action

- Change the setting for displaying or hiding the tab in role customization. Refer to "Chapter 3 Configuring Users and Customizing Roles" in the "User's Guide for Infrastructure Administrators (Resource Management) CE" for information on customizing roles.
- Change the settings for "Use/Do not use the functionality of the application process", "Perform/Do not perform user management by tenant administrator", and "Calculate/Do not calculate usage charges" in the setup wizard of the ROR console. Changing through the setup wizard also enables you to change the display or hide settings for tabs for each of the corresponding basic roles. Refer to "3.1 Setup Wizard" in the "User's Guide for Infrastructure Administrators CE" for information on the setup wizard.
- When changing the settings for "Use/Do not use the functionality of the application process" or "Calculate/Do not calculate usage charges" by editing the definition file, also change the display or hide settings for tabs in role customization as necessary.

## 2.3.5.3 Registration of Cloning Images in an Image Pool or Collection of Cloning Images from L-Servers

### Details of Modification

When performing the following operations, images with the same name as existing cloning images in the image pool cannot be registered.

- Registration of Images to an Image Pool

- Collection of Images from an L-Server

For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

In earlier versions, the manuals instructed users not to register images of different types (\*1) which have the same name in an image pool.

\*1: There are three types of images:

- Physical L-Server Images
- VMware, Hyper-V, OVM for x86 2.2, OVM for x86 3.2, Citrix Xen, Solaris Zones, and OVM for SPARC Images
- KVM and Xen Images

For this reason, when images of different types with the same name were registered in an image pool against the instructions in the manual, the following problems occurred.

- In the Resource List of the Resource tab, images of different types are displayed as a single image.  
For example, a VMware image and a KVM image are displayed as a single image.
- If such an image is deleted or moved using a command, an unexpected image may be deleted or moved.

For V3.1.2

If there are images of different types with the same name in an image pool, new images of different types cannot be registered using the same names as the existing images in that image pool.

### **Corrective Action**

Modify the image pool configuration so that there are no images of different types with the same name.  
Create an image pool using the ROR console, then move the image there.

## **2.3.5.4 Switchover of Maintenance Mode for Network Devices**

### **Details of Modification**

When switching over maintenance mode for network devices, modification using the network configuration information is not possible, as described below.

For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

Switchover of maintenance mode is possible using the switchover operation of maintenance mode.

Switchover of maintenance mode is also possible by changing network device settings using the network configuration information.

For V3.1.2

Switchover of maintenance mode is possible using the switchover operation of maintenance mode.

Switchover of maintenance mode by changing network device settings using the network configuration information is not possible.

### **Corrective Action**

To place a network device into maintenance mode, perform the switchover operation of maintenance mode.

For details on the switchover operation of maintenance mode, refer to "22.1 Switchover of Maintenance Mode" in the "User's Guide for Infrastructure Administrators (Resource Management) CE".

## **2.3.5.5 [Software Details] button**

## Details of Modification

If there is no software information but OS software information when [Software Details] button is clicked, the message that says there is no software information was displayed with earlier versions. But OS software information is displayed in that case now.

## Corrective Action

Follow the procedure below to configure the backward compatible mode.

1. Open the Manager View settings file in a text editor.

The Manager View settings file is stored in the following location:

[Windows Manager]

```
Installation_folder\RCXCTMG\MyPortal\config\managerview_config.xml
```

[Linux Manager]

```
/etc/opt/FJSVctmyp/config/managerview_config.xml
```

2. Add the following key and value.

Key name	Content
software-details-button-mode compatible	Compatible mode

3. Save the file.
4. Restart the manager.

Refer to "2.1 Starting and Stopping Managers" in the "Operation Guide CE" for information on the manager restart method.

## 2.3.5.6 Keyword search function for L-Platform templates

### Details of Modification

The result of the keyword search function for L-Platform templates has been changed.

- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

The result of a case-sensitive search is displayed.

- V3.1.2

The result of a case-insensitive search is displayed.

### Corrective Action

To make L-Platform templates separately searchable, specify keywords that will not be identical in case-insensitive searches when registering L-Platform templates.

## 2.3.6 Information about Incompatibility between V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07) and V3.1.1/V3.1.1A

This section explains information about incompatibility between V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07) and V3.1.1/V3.1.1A.

### 2.3.6.1 Registration and Migration of Disk Resources to the Storage Pool

#### Details of Modification

In the following cases, registration and migration of disk resources to the storage pool cannot be performed, due to the storage pool attributes:

- Disk resources with Thin Provisioning attributes are registered in or migrated to a storage pool for which Thin Provisioning attributes are not configured.
- Disk resources with Thick Provisioning attributes are registered in or migrated to a storage pool for which Thin Provisioning attributes are configured.

The above operations are available with V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07).

### **Corrective Action**

When the rcxadm pool register command or the rcxadm pool move command is called from programs, correction of the programs may be required.

## **2.3.6.2 Restoration of the ROR Console [Resource] Tab, Physical L-Server System Images, and Virtual L-Server Snapshots**

### **Details of Modification**

When performing restoration of an L-Server using the ROR console, a warning message which notifies that current system information may be lost is displayed.

### **Corrective Action**

A warning message notifying that current system information may be lost is displayed in the dialog which is displayed when restoring an L-Server in the ROR console [Resource] tab.

Check the details of the displayed warning message, and check the following checkbox:

- When using physical L-Servers: [Restore the system image.]
- When using virtual L-Servers: [Restore the snapshot.]

## **2.3.6.3 Addition of Resource Type in Output Metering Logs Command (ctchg\_getmeterlog)**

### **Details of Modification**

Snapshots of virtual L-Servers are added to the target resources for which metering logs are output.

### **Effect**

The snapshot is added to the resource type of metering logs which are output by the Output Metering Logs command (ctchg\_getmeterlog).

The "resource\_type" entry of metering logs for snapshots is "snapshot".

### **Corrective Actions**

When the command output results are analyzed by programs, it is necessary to skip reading of added information.

## **2.3.6.4 Displayed Information of Disk Resources for Thin Devices of EMC Symmetrix DMX Storage or EMC Symmetrix VMAX Storage**

### **Details of Modification**

Disk resource attributes (ATTRIBUTES) for thin devices of EMC Symmetrix DMX storage or EMC Symmetrix VMAX storage are changed to display "Thin".



- For V3.1.1  
Disk resource attributes (ATTRIBUTES) are displayed as "Thick".
- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)  
Disk resource attributes (ATTRIBUTES) are displayed as "Thin".

### **Corrective Action**

When the output results of the `rcxadm disk list -verbose` command or the `rcxadm disk show` command are analyzed using programs, it is necessary to replace the information using programs.

## **2.3.6.5 When Auto-configuration of a Network Device Fails**

### **Details of Modification**

The behavior of a network device when network device auto-configuration fails is changed as indicated below.

- For V3.1.1/V3.1.1A  
With network devices for which script execution failed during auto-configuration, auto-configuration (AutoConfiguration) in the network configuration information of the network device is changed to exclude (false).  
The unit status and the maintenance mode of the corresponding network device are not changed.
- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)  
With network devices and corresponding network devices in redundant configurations for which script execution failed during auto-configuration, their unit statuses are changed to "error" and they are placed into maintenance mode.  
Auto-configuration (AutoConfiguration) of the network configuration information in the network devices is not changed.

### **Corrective Action**

Release the network device from maintenance mode after taking action when auto-configuration fails.

## **2.3.6.6 Releasing a Network Device from Maintenance Mode**

### **Details of Modification**

When the unit status of a network device is "unknown", it will not be released from maintenance mode.

- For V3.1.1/V3.1.1A  
When release from maintenance mode is performed for a network device with the unit status "unknown", the device will be released from maintenance mode.
- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)  
When release from maintenance mode is performed for a network device with the unit status "unknown", the device will not be released from maintenance mode.

### **Corrective Action**

When the unit status of the network device is "unknown", release it from maintenance mode after taking corrective action to make the unit status "normal".

## **2.3.6.7 Messages Output when Monitoring Network Devices**

## Details of Modification

Messages output when monitoring network devices have been changed.

- For V3.1.1/V3.1.1A

When the status changes of network devices are detected, the following messages are output:

- 22780 : unm-mon:Node status of *nodeid* is changed to *status*
- 42780 : unm-mon:Node status of *nodeid* is changed to *status*
- 62780 : unm-mon:Node status of *nodeid* is changed to *status (cause)*

- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

When the status changes of network devices are detected, the following messages are output:

- 22780 : Status of *nodeid* has changed to *status*
- 42780 : Status of *nodeid* has changed to *status (cause)*
- 62780 : Status of *nodeid* has changed to *status (cause)*

## Corrective Action

When monitoring the corresponding messages output by Resource Orchestrator using other monitoring software, it is necessary to change the monitored messages.

When the messages before modification are described in the operation guide of a system created by a customer, it is necessary to revise the operation guide.

## 2.3.6.8 Message Output when Creating A Virtual L-Server

### Details of Modification

When the disk resources of an L-Server with multiple disks configured were insufficient at the time of the following operations, the output messages and details were changed.

- Application for an L-Platform including a KVM virtual L-Server
- Creation or starting of a KVM virtual L-Server

- For V3.1.1/V3.1.1A

When the disk resources allocated to some disks of L-Server are insufficient, the following messages are output.

- FJSVrcx:ERROR:67154:*obj*:not found

- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

When the disk resources allocated to some disks of L-Server are insufficient, the following messages are output.

- FJSVrcx:ERROR:62514:Selectable VM host not found. (*detail*)
- FJSVrcx:ERROR:62517:Specified VM host is not available. (*detail*)

Also, the information output for *detail* is changed.

- For V3.1.1/V3.1.1A

no sharable datastore found

- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

no sharable datastore or disk found

## Corrective Action

When monitoring the corresponding messages output by Resource Orchestrator using other monitoring software, it is necessary to change the monitored messages.

When the messages before modification are described in the operation guide of a system created by a customer, it is necessary to revise the operation guide.

### 2.3.6.9 Response of the L-Platform API "ListDisk"

#### Details of Modification

A tag name contained in the response of the L-Platform API "ListDisk" has been changed.

- For V3.1.1/V3.1.1A

The API returns the VDIsks tag.

- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

The API returns the disks tag.

## Corrective Action

If you have created programs that analyze the response of the L-Platform API "ListDisk", check whether the change of the tag name affects them.

### 2.3.6.10 Accounting Information Setting for Snapshots

#### Details of Modification

There are following changes about the accounting information setting for snapshots.

- For V3.1.1/V3.1.1A

The unit price of snapshots is included in the unit price of the product of Virtual L-Servers.

However, if the following patch has been applied and snapshot accounting has been enabled in the procedure, the setting method is same as V3.1.2.

[Windows Manager]

- T007690WP-02

[Linux Manager]

- T007689LP-02

- For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

The product category for snapshots is added to the accounting information setting.

The unit price of snapshots is set as a product of snapshots.

## Corrective Actions

- If the manager has been newly installed, or the manager has been upgraded and snapshot accounting has been enabled in the procedure:

Set the unit prices of the snapshots as the products of the snapshots in the accounting information setting.

If it is not necessary to charge for the snapshots, specify 0s for the unit prices of the snapshots or do not define the products of the snapshots.

- If snapshot accounting has not been enabled in the upgrade installation procedure:

There is no incompatibility. No action is required.

For details on the upgrade installation procedure, refer to "F.2 Manager" in "Setup Guide".

## **2.3.7 Information about Incompatibility between V3.1.1/V3.1.1A and V3.1.0A**

This section explains information about incompatibility between V3.1.0A and V3.1.1/V3.1.1A.

### **2.3.7.1 Hiding Resource Pools if their Resources are not Registered in the L-Platform Template**

#### **Details of Modification**

When creating L-Platform templates, resource pools are displayed as options for the following items even if they have unregistered resources:

- VM or server pools (spare server pools) of the server
- Storage pool of the server system disk
- Storage pool of the server data disk

Resource pools are no longer displayed as options in V3.1.1 if their resources are not registered.

#### **Corrective Actions**

Create an L-Platform template after registering resources with the resource pool.

### **2.3.7.2 About Server Names when an L-Platform is Deployed Using the L-Platform API "CreateLPlatform"**

#### **Details of Modification**

In previous versions, if an L-Platform was deployed using CreateLPlatform, servers were deployed with the names as specified in the L-Platform template, even if the names conflicted in the template.

In addition, if server names conflicted in a deployed L-Platform, it caused the following problems:

- It was difficult to identify servers displayed in the event log.
- Server names needed to be changed when the L-Platform was reconfigured.

In V3.1.1/V3.1.1A, with the improved server name checking of CreateLPlatform, servers are deployed with names appended with sequential numbers if the names conflict in the L-Platform template.

#### **Corrective Actions**

To deploy servers with the names as specified in an L-Platform template, specify unique server names within the template.

### **2.3.7.3 The Number of NICs Attached to an Added Server when an L-Platform Template is Created, Copied, or Edited**

#### **Details of Modification**

In previous versions, when an L-Platform was created, copied, or edited, added servers were placed with as many NICs as the maximum number of NICs of the image information.

In V3.1.1, an added server is placed with one NIC.

#### **Corrective Actions**

To attach as many NICs as the maximum number of NICs, click the server icon, and then click the [Add NIC] button to add NICs.

## 2.3.7.4 Accounting Information Setting for System Disks

### Details of Modification

There are following changes about the accounting information setting for system disks.

For V3.1.0A

The unit price of system disks is included in the unit price of the product of Virtual L-Servers or Physical L-Servers.

For V3.1.1/V3.1.1A

The product category for system disk capacity is added to the accounting information setting.

The unit price of system disks is set as a product of system disk capacity.

### Corrective Actions

- If the manager has been newly installed, or the manager has been upgraded and snapshot accounting has been enabled in the procedure:  
Set the unit prices of the system disks as the products of system disk capacity in the accounting information setting.  
If it is not necessary to charge for the system disks, specify 0s for the unit prices of the system disks or do not define the products of system disk capacity.
- If system disk accounting has not been enabled in the upgrade installation procedure:  
There is no incompatibility. No action is required.  
For details on the upgrade installation procedure, refer to "F.2 Manager" in "Setup Guide".

## 2.3.7.5 Identification Information of Servers in Usage Charge Detail Window

### Details of Modification

There are following changes about the identification information of servers in the Usage Charge Detail window.

For V3.1.0A

Internal IDs are displayed as the identification information of virtual or physical servers in the Usage Charge Detail window.

For V3.1.1/V3.1.1A

Server names specified in the L-Platform management are displayed as the identification information of virtual or physical servers in the Usage Charge Detail window.

### Corrective Actions

- When the ROR manager is newly installed, or the server name display is set to effective in the upgrade installation procedure:  
Distinguish each server referring to the server name in the Usage Charge Detail window.
- When the server name display is not set to effective in the upgrade installation procedure:  
There is no incompatibility. No action is required.  
Refer to "F.2 Manager" in the "Setup Guide CE" for information on the upgrade Installation.

## 2.3.7.6 Identification Information of Data Disks in Usage Charge Detail Window

### Details of Modification

There are following changes about the identification information of data disks in the Usage Charge Detail window.

For V3.1.0A

Internal IDs are displayed as the identification information of data disks in the Usage Charge Detail window.

For V3.1.1/V3.1.1A

Disk names specified in the L-Platform management are displayed as the identification information of data disks in the Usage Charge Detail window.

## Corrective Actions

- When the ROR manager is newly installed, or the data disk name display is set to effective in the upgrade installation procedure:  
Distinguish each data disk referring to the disk name in the Usage Charge Detail window.
- When the disk name display is not set to effective in the upgrade installation procedure:  
There is no incompatibility. No action is required.  
Refer to "F.2 Manager" in the "Setup Guide CE" for information on the upgrade Installation.

## 2.3.7.7 Messages

### Details of Modification

The messages displayed in the following cases have been changed:

- [Message output when creation of a virtual switch failed](#)
- [Error message output when a communication error with VM management software occurred](#)

### Message output when creation of a virtual switch failed

Error codes included in the message output when creation of a virtual switch fails (FJSVrcx:ERROR:62700) have been changed from 500 and 1601 to FJSVrcx:ERROR:62721.

- For V3.1.0A
  - FJSVrcx:ERROR:62700:*name*:virtual switch creation failed on server *server* (500)
  - FJSVrcx:ERROR:62700:*name*:virtual switch creation failed on server *server* (1601)
- For V3.1.1/V3.1.1A
  - FJSVrcx:ERROR:62721:*name*:failed to create virtual switch with NIC (*number*) on server *server*, detail=*detail*

### Error message output when a communication error with VM management software occurred

The error message which was output when a communication error with a VM management software occurred (FJSVrcx:ERROR:69111) was output periodically for each storage resource. It is now output only once for each VM management software.

- For V3.1.0A

The following message is output periodically for each virtual storage resource

- When using VMware vCenter Server for VM management software
  - FJSVrcx:ERROR:69111:communication error. target=*IP address of the VM management software* detail=VMware vCenter Server communication error(*Virtual storage resource name*)
- When using System Center Virtual Machine Manager for VM management software
  - FJSVrcx:ERROR:69111:communication error. target=*IP address of the VM management software* detail=System Center Virtual Machine Manager communication error(*Virtual storage resource name*)

- When using Oracle VM Manager for VM management software
  - FJSVrcx:ERROR:69111:communication error. target=*IP address of the VM management software* detail=Oracle VM Manager communication error(*Virtual storage resource name*)
- For V3.1.1/V3.1.1A

The following message is output only once for each VM management software

- When using VMware vCenter Server for VM management software
  - FJSVrcx:ERROR:69111:communication error. target=*IP address of the VM management software* detail=VMware vCenter Server communication error
- When using System Center Virtual Machine Manager for VM management software
  - FJSVrcx:ERROR:69111:communication error. target=*IP address of the VM management software* detail=System Center Virtual Machine Manager communication error
- When using Oracle VM Manager for VM management software
  - FJSVrcx:ERROR:69111:communication error. target=*IP address of the VM management software* detail=Oracle VM Manager communication error

### Corrective Action

- It is necessary to modify the message for the target of monitoring, when monitoring the messages (numbers or message text) for Resource Orchestrator using other vendors' products.
- It is necessary to update the operation guide, when the messages before modification are described in an operation guide created by users.

## 2.3.8 Information about Incompatibility between V3.1.0A and V3.1.0

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This section explains information about incompatibility between V3.1.0A and V3.1.0.

### 2.3.8.1 When Using Linux Manager with Managed Servers Using Local Boot and SAN Data Environments

#### Details of Modification

When using Linux manager with managed servers using local boot and SAN data environments, modification of boot agents was not necessary up to V3.1.

For V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07), in the following configurations it is necessary to change boot agents before performing image operations.

- Local boot and SAN data environments where SAN data is configured using a physical WWN or VIOM

#### Details of Modification

When using Linux manager with managed servers using local boot or SAN data environments, modification of boot agents was not necessary up to V3.1.

In patched V3.1.1/V3.1.1A, in the following configurations it is necessary to change boot agents before performing image operations.

- Local boot, SAN data environments where SAN data is configured using a physical WWN or VIOM

#### Effect

When upgrading from an earlier version, if the boot agent is not changed, for image operations that were correctly implemented before upgrade, processing may be performed for data disks. An error will occur during image operations.

## Corrective Action

Perform the image operations, after changing the boot agent to DR-DOS using the following command:

```
#/opt/FJSVrcvmr/bin/rcxadm server set -name physical server -attr bootagt=dos <RETURN>
```

## 2.3.8.2 The Number of Services of Agents

### Details of Modification

When the OS of managed servers is XenServer6, the following service does not operate on agents.

- Deployment Agent

### Effect

When agent processes are being monitored, the monitor will mistakenly report that Deployment Agent has stopped.

### Corrective Action

Delete Deployment Agent from the targets of process monitoring.

## 2.3.8.3 Messages

From V3.1.0, the messages displayed in the following cases have been changed:

- [When Operating L-Servers or Resource Pools](#)
- [When Operating L-Servers or User Information](#)
- [When Monitoring Network Devices](#)
- [Import Operations for Network Devices](#)

### When Operating L-Servers or Resource Pools

- Message output when there are errors in the values specified for an XML tag, when applying to use an L-Platform including a virtual L-Server, creating a virtual L-Server, or when modifying definition information, the basic information, or specifications, or when there are errors in the values specified for the XML tag
  - For V3.1.0
    - FJSVrcx:ERROR:65910:The value of *item*, *value*, is invalid.
  - For V3.1.0A
    - The content of *item* is changed.
- Message output when unsupported XML tags are specified in the VM types for virtual L-Servers, when applying to use an L-Platform including a virtual L-Server, creating a virtual L-Server, or when modifying definition information, the basic information, or specifications
  - For V3.1.0
    - FJSVrcx:ERROR:67280:*obj.function* not supported. *detail*
  - For V3.1.0A
    - The content of *detail* is changed.



- Message output when there are no specified resources in the resource pools, when applying to use an L-Platform including a virtual L-Server, creating a virtual L-Server, modifying definition information, or attaching and starting disks
  - For V3.1.0
    - FJSVrcx:ERROR:67154:*obj*:not found
  - For V3.1.0A
    - FJSVrcx:ERROR:62553:no *AddressType* found in *targets*
- Message output when there are no available MAC address resources in the resource pools, when applying to use an L-Platform including a virtual L-Server, or creating a virtual L-Server
  - For V3.1.0
    - FJSVrcx:ERROR:67154:*obj*:not found
  - For V3.1.0A
    - FJSVrcx:ERROR:62553:no *AddressType* found in *targets*

Or

  - FJSVrcx:ERROR:62554:*AddressType*:no more addresses available in *targets*
- Message output when disk deployment settings during image specification (disk=all) are configured, without specifying cloning images, when applying to use an L-Platform including a virtual L-Server, creating a virtual L-Server, or modifying definition information
  - For V3.1.0
    - FJSVrcx:ERROR:67280:*obj.function* not supported. *detail*
  - For V3.1.0A
    - FJSVrcx:ERROR:62537:*obj* cannot be specified because of *condition*. *detail*
- Message output if unsupported options of pool types are specified when creating a resource pool
  - For V3.1.0
    - FJSVrcx:ERROR:67280:*obj.function* not supported. *detail*
  - For V3.1.0A
    - FJSVrcx:ERROR:62538:*obj1* cannot be specified for *obj2*. *detail*
- Message output if already registered resources in resource pools are specified, when registering resources in resource pools
  - For V3.1.0
    - FJSVrcx:ERROR:67155:*type obj*:already exists
  - For V3.1.0A
    - The content of *obj* is changed.
- Message output if resources that cannot be registered are specified when registering resources in resource pools
  - For V3.1.0
    - FJSVrcx:ERROR:67154:*obj*:not found
  - For V3.1.0A
    - FJSVrcx:ERROR:62537:*obj* cannot be specified because of *condition*. *detail*
- Message output if the combination of resource type and pool type is not appropriate, when registering resources in resource pools
  - For V3.1.0
    - FJSVrcx:ERROR:67280:*obj.function* not supported. *detail*

- For V3.1.0A
  - FJSVrcx:ERROR:62551:The specified *obj1* and *obj2* do not matched. *detail*

## When Operating L-Servers or User Information

The message which is output when an error occurs during control of a product that works in coordination with Resource Orchestrator using the rcxadm command to operate L-Servers or user information has been modified.

- The message which is output when an error occurs during controlling a product that works in coordination with Resource Orchestrator using the rcxadm command to operate L-Servers or user information
  - For V3.1.0

```
>rcxadm user modify -file user.xml <RETURN>
FJSVrcx:ERROR:65842:The password does not fit the policy of the directory service.
```

- For V3.1.0A

```
>rcxadm user modify -file user.xml <RETURN>
FJSVrcx:ERROR:65842:The password does not fit the policy of the directory service.
Reported from the following:
product="OpenDS"
request="change password"
message="User DN:cn=roradmin,OU=USERS,dc=fujitsu,dc=com The provided
password value was rejected by a password validator: The provided
password is shorter than the minimum required length of 6 characters: ldaps://
xxx.fujitsu.com:1474"
```

For the procedure to return the output format to the conventional format, refer to "[2.1.1.1 Configuring Display of Errors that Occur on Related Products](#)".

## When Monitoring Network Devices

From V3.1.0, the messages output when monitoring network devices have been changed.

- Messages output when changes in port status are detected when monitoring network devices
  - For V3.1.0
    - FJSVrcx:WARNING:42781:device:Port *port\_name* status change from *prev\_status* to *cur\_status* has been detected
  - For V3.1.0A
    - FJSVrcx:INFO:22784:device:Port *port\_name* status change from *prev\_status* to *cur\_status* has been detected

## Import Operations for Network Devices

The message displayed when all specified network devices have already been registered during the import of network devices has been changed.

- Messages output when all specified network devices have already been registered during the import of network devices
  - For V3.0
    - FJSVrcx:INFO:25901:Import has not been performed.
  - For V3.1.0A
    - FJSVrcx:INFO:22781:Import has not been performed because all specified network devices have already been registered.

## Corrective Action

- It is necessary to add the message for the target of monitoring, when monitoring the messages (numbers or message text) for Resource Orchestrator using other vendors' products.
- It is necessary to update the operation guide, when the messages before modification are described in an operation guide created by users.

## 2.3.9 Information about Incompatibility between V3.1.0 and V3.0.0

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This section explains information about incompatibility between V3.1.0 and V3.0.0.

### 2.3.9.1 Messages

#### Details of Modification

The message displayed when operating an L-Server has been changed.

- Message output when a MacAddress cannot be obtained, when applying for an L-Platform including a physical L-Server, or creating a physical L-Server
  - For V3.0.0
    - FJSVrcx:ERROR:65910:The value of MacAddress, *value*, is invalid.
    - FJSVrcx:ERROR:67154:MacAddress:not found
  - For V3.1.0
    - FJSVrcx:ERROR:62552: *value* is outside range of *targets*
    - FJSVrcx:ERROR:62553:no *AddressType* found in *targets*
    - FJSVrcx:ERROR:62554:*AddressType*:no more addresses available
- Message output when the WWNAddress cannot be obtained, when applying for an L-Platform including a physical L-Server, or creating a physical L-Server
  - For V3.0.0
    - FJSVrcx:ERROR:67133:remained amount of WWN address:out of range
  - For V3.1.0
    - FJSVrcx:ERROR:62552: *value* is outside range of *targets*
    - FJSVrcx:ERROR:62553:no *AddressType* found in *targets*
    - FJSVrcx:ERROR:62554:*AddressType*: no more addresses available
- Message output when the specified system disk does not exist, when applying for an L-Platform including a physical L-Server, or creating a physical L-Server
  - For V3.0.0
    - FJSVrcx:ERROR:67154:System Disk:not found
  - For V3.1.0
    - FJSVrcx:ERROR:62549:*obj1* not specified for *obj2*. (*detail*)

- Message output when the resource has no access authority, when starting an L-Platform including a physical L-Server, or starting a physical L-Server
  - For V3.0.0
    - FJSVrcx:ERROR:67280:*obj*:start not supported. The resources used are permission denied.
  - For V3.1.0
    - FJSVrcx:ERROR:62548:*obj1* access rights not possessed for *obj2*. (*detail*)
- Message output when there are no physical servers, when applying for an L-Platform including a physical L-Server, or creating or starting a physical L-Server
  - For V3.0.0
    - FJSVrcx:ERROR:65911:Specified resource PhysicalServer not found.
  - For V3.1.0
    - FJSVrcx:ERROR:62532:*resource* not found in *target*. (*detail*)
    - FJSVrcx:ERROR:62533:*resource* matching conditions not found in *target*. (*detail*)
- Message output when there is no access authority for the person creating a virtual L-Server to VM host associating the configured virtual machine and the virtual L-Server
  - For V3.0.0
    - FJSVrcx:ERROR:67154:TargetServer id=*id*:not found
  - For V3.1.0
    - FJSVrcx:ERROR:62547:*obj* access rights not possessed. (*detail*)
- Message output when the resource has no access authority, when starting an L-Platform including a virtual L-Server, or starting a virtual L-Server
  - For V3.0.0
    - FJSVrcx:ERROR:67280:*obj*:start not supported. The resources used are permission denied.
  - For V3.1.0
    - FJSVrcx:ERROR:62548:*obj1* access rights not possessed for *obj2*. (*detail*)

The message is output to command prompt and the terminal where the command was executed when operating it by the command.

### Corrective Action

- It is necessary to add the message for the target of monitoring, when monitoring the messages (numbers or message text) for Resource Orchestrator using other vendors' products.
- It is necessary to add or revise messages after modification, when the messages before modification are described in the operation guide created by users.

## 2.3.9.2 Output Results of the rcxadm lserver show Command

### Details of Modification

- The lines for VMHostPool and StoragePool[num] are added to the information output using the rcxadm lserver show command. Depending on the status of resource allocation, the information may not be displayed.
- The following tags are added to the information using the rcxadm lserver show -format xml command. Depending on the status of resource allocation, the information may not be displayed.
  - Pool elements in Current elements
  - Current elements in Disk elements, and Pool elements under Current elements

- When disk space is unclear and the VM type is Solaris Containers, DiskSize is shown as "-" in the information output using the rcxadm lserver show command.

### **Effect**

When the command output results are analyzed by programs, the analysis may fail.

### **Corrective Action**

When the command output results are analyzed by programs, it is necessary to skip reading of added information.

When the output results are analyzed in the text format, it is necessary to extract the necessary items by lines, but this is only required for users analyzing the results in text format.

## **2.3.9.3 Date Format Displayed on the Dashboard (System Conditions)**

### **Details of Modification**

The Date format displayed on the Dashboard (System Conditions) has been modified.

In V3.0 the format was yyyy/mm/dd.

In V3.1, the format is yyyy-mm-dd.

Note that the date format output to CSV files has also been modified.

### **Effect**

When using the date output to the CSV file, processing may fail.

### **Corrective Actions**

When using the date output to the CSV file, modification is required.

## **2.3.9.4 Date Format Displayed on the Dashboard (Pool Conditions)**

### **Details of Modification**

The Date format displayed on the Dashboard (pool conditions) has been modified.

In V3.0 the format was mm/dd/yyyy.

In V3.1, the format is yyyy-mm-dd.

Note that the date format output to CSV files has also been modified.

### **Effect**

When using the date output to the CSV file, processing may fail.

### **Corrective Actions**

When using the date output to the CSV file, modification is required.

## **2.3.9.5 L-Server Template Setting Values that occur in L-Platform Reconfiguration**

### **Details of Modification**

The method of handling L-Server template setting values that occur in L-Platform reconfiguration has been modified.

In V3.0, when reconfiguring post deployment L-Platforms, even if the following setting values were modified to a different type (L-Server template), the changes were not reflected in the L-Server setting values:

- Alive Monitoring Settings

- Redundancy
- Repurpose

In V3.1, when reconfiguring post deployment L-Platforms, if the above setting values are modified to a different type (L-Server template), the changes are now reflected in the L-Server setting values.

### Corrective Actions

Reregister the L-Server template which has the same setting values as the following items:

Also, when modifying only the Server specs, select the type of Server that has the same setting values as the following items, and perform the L-Platform reconfiguration:

- Alive Monitoring Settings
- Redundancy
- Repurpose

## 2.3.9.6 Registering Image Information Specifying Cloning Images that include Data Disks

### Details of Modification

Previously, when registering L-Platform template image information which specified cloning images that included data disks, the image information from the system disk configuration only was registered in V3.0.

But in V3.1, image information with the data disks is now included in the configuration is registered.

### Corrective Actions

- Infrastructure administrators

After deleting the data disk from the L-Server which was the source of the cloning image collection, recollect the cloning image. Specify the recollected cloning image and reregister the image information.

- Tenant administrators

After deploying a configuration which includes the data disks, collect a cloning image in the L-Platform management window which specifies exclusion of the data disks. If this is done, image information configured only with system disks is automatically registered.

## 2.3.9.7 The Number of Disks That Can Be Attached Using the L-Platform API

### Details of Modification

AttachDisk or CreateDisk of the L-Platform API was able to attach one disk to a server even if the maximum number of extension disks of the server was set to zero.

It has been corrected, and now AttachDisk and CreateDisk cannot attach a disk if the maximum number of extension disks is zero.

### Corrective Actions

If it is expected that a disk will be attached to a server that is created using image information with the maximum number of extension disks set to zero, edit the image information and change the maximum number of extension disks to a value more than zero.

## 2.3.10 Information about Incompatibility between V3.0 (T006522LP-01/T006269WP-01) and V3.0

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This section explains information about incompatibility between V3.0 (T006521LP-01/T006268WP-01) and V3.0.

### 2.3.10.1 JavaVM memory (Java Heap) size expansion

## Details of Modification

The JavaVM memory (Java Heap) size of the work unit (RCXCT\_portala) is changed as follows.

- V3.0

The JavaVM memory (Java Heap) size is set to Xms16MB and Xmx64MB by default.

- For V3.0 (T006521LP-01/T006268WP-01)

The JavaVM memory (Java Heap) size is expanded to Xms256MB and Xmx256MB.

However, if the JavaVM memory (Java Heap) size has been modified manually, it will be set according to the following patterns.

- Xms: not set, Xmx: not set -> Both Xms and Xmx are expanded.
- Xms: set, Xmx: not set -> Only Xmx is expanded.
- Xms: not set, Xmx: set -> Neither is expanded.
- Xms: set, Xmx: set -> Neither is expanded.

## Corrective Actions

If the JavaVM memory size has not been modified manually, no action is necessary.

If it has been modified manually, modify it as needed after it is set as above.

## 2.3.11 Information about Incompatibility between V3.1.0 and V2.3

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This section explains information about incompatibility between V3.1.0 and V2.3.

### 2.3.11.1 Messages

#### Details of Modification

The messages displayed in the following cases have been changed:

- When creating a virtual L-Server
- When migrating a virtual L-Server between servers
- When starting a virtual L-Server

Among the 67154 messages, which are output on the ROR console when creating or starting a virtual L-Server or when migrating a virtual L-Server between servers, the following messages have been modified.

- For V2.3
  - FJSVrcx:ERROR:67154:Selectable vm\_host(condition):not found

- For V3.1.0

One of the following messages is displayed.

- FJSVrcx:ERROR:62514:Selectable VM host not found. (detail)
- FJSVrcx:ERROR:62517:Specified VM host is not available. (detail)

The message is displayed in the command prompt or the terminal where the command was executed when operating the virtual L-Server by the command.

## Corrective Action

- It is necessary to add the message for the target of monitoring, when monitoring the messages (numbers or message text) for Resource Orchestrator using other vendors' products.
- It is necessary to add or revise messages after modification, when the messages before modification are described in the operation guide created by users.

### 2.3.11.2 L-Server Information Output Format (XML)

#### Details of Modification

The Resources element is now added to the XML for the L-Server information output using the following command.

```
>rcxadm lserver show -name L-Server name -format xml <RETURN>
```

- For V2.3

```
<LServer name="ve_or_test01" id="rctest_1208" label="bbcc">  
<Comment></Comment>  
...  
</LServer>
```

- For V3.1.0

```
<Resources>  
<LServer name="ve_or_test01" id="rctest_1208" label="bbcc">  
<Comment></Comment>  
...  
</LServer>  
</Resources>
```

### 2.3.11.3 XML Format of NIC Definitions for Virtual L-Servers

#### Details of Modification

The NIC element which is output using the rcxadm lserver show command is displayed in the same format for physical L-Servers.

- For V2.3

```
<NIC>  
  <NetworkLink name="Network name" id="ROR-HS_559" />  
  <NICIndex>0</NICIndex>  
  <MacAddress></MacAddress>  
  <IpAddress auto="true">IP address</IpAddress>  
</NIC>
```

- For V3.1.0

```
<NIC>  
  <NICIndex>0</NICIndex>  
  <MacAddress auto="false"></MacAddress>  
  <NetworkLinks>  
    <NetworkLink name="Network name" index="0" id="ROR-HS_559">  
      <IpAddress auto="false" address="IP address" />
```



```
</NetworkLink>
</NetworkLinks>
</NIC>
```

## 2.3.11.4 XML Format of Physical L-Server Templates

### Details of Modification

As the specification error check function is now provided when importing physical L-Server templates, an error message is output when the XML definition being imported satisfies one of the following conditions:

- Both the NumOfNIC element and the NIC element are specified at the same time
- ""0"" is specified as the NumOfNIC value
- Neither the NumOfNIC element nor the NIC element is specified

### Corrective Action

Specify the correct value referring to "15.2.1 Physical L-Server Templates" in the "Reference Guide (Command/XML) CE".

## 2.3.11.5 Display Format of the Commands for Displaying Address Set Resources

### Details of Modification

The display format of the information output by the rxcadm addrset show command and the rxcadm addrset list command has been changed.

- For V2.3  
Output results are displayed in XML format.
- For V3.1.0  
Output results are displayed in text format.

## 2.3.11.6 Disk Sharing Method Used When Creating L-Servers and Attaching Disks

### Details of Modification

"Sharing Configuration" which was available when creating an L-Server and attaching disks was removed. It is now possible to share disks by simply selecting the disks allocated to the L-Server.

## 2.3.12 Information about Incompatibility between V3.0.0 and V2.3

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This section explains information about incompatibility between V3.0.0 and V2.3.

### 2.3.12.1 Role Names

#### Details of Modification

Role names have been changed as follows.

Previous Name	New Name
supervisor	(Removed)

Previous Name	New Name
service_admin	tenant_admin
lserver_operator	tenant_operator
lserver_monitor	tenant_monitor

For details on available operations for each role, refer to "5.1 Restricting Access Using Roles" in the "Design Guide CE".

## 2.3.12.2 The supervisor Role

### Details of Modification

The supervisor role is no longer available.

Users with the administrator role can perform the same operations that were available for the supervisor role.

Performing upgrade installation from the earlier version changes the supervisor role to the administrator role automatically.

The supervisor user group created during installation becomes a user group with the administrator role and unlimited access scope.

## 2.3.12.3 Privileged User Created During Installation

### Details of Modification

A role is assigned to the privileged user created during installation.

The user belongs to the supervisor user group and becomes a user with the administrator role and unlimited access scope.

Performing upgrade installation from the earlier version automatically registers the privileged user in the supervisor user group.

## Chapter 3 Restrictions

This chapter explains the usage restrictions of the functions described in the manuals.

### 3.1 Restrictions Common to All Editions

Restrictions common to all editions are as indicated below.

Table 3.1 Restrictions Common to All Editions

No.	Restriction	Corrective Action	Release Schedule
1	<p>If a PRIMERGY BX920 S3 or later/BX924 S3 or later/RX200 S7 or later/RX300 S7 or later is used as a managed server with local boot and SAN data, the following operations are not available.</p> <ul style="list-style-type: none"> <li>- Backup and restore</li> <li>- Collection and deployment of server cloning images</li> <li>- Server switchover and failback based on backup and restore</li> </ul>	None.	<p>[Linux Manager]</p> <p>2014/10 (Program patch T009379LP-04 has been applied)</p> <p>[Windows Manager]</p> <p>2014/10 (Program patch T009378WP-05 has been applied)</p>
2	<p>The server switchover function cannot be used when a managed server is OVM for SPARC.</p>	None.	<p>[Linux Manager]</p> <p>2014/6 (Program patch T009379LP-03 has been applied)</p> <p>[Windows Manager]</p> <p>2014/7 (Program patch T009378WP-04 has been applied)</p>
3	<p>Under the following conditions, the functions below are not available.</p> <ul style="list-style-type: none"> <li>- Conditions <ul style="list-style-type: none"> <li>1. A PRIMERGY RX300 S8 is used as a managed server.</li> <li>AND,</li> <li>2. Onboard NIC1 is used as the admin LAN, OR an L-Platform is being used.</li> </ul> </li> <li>- Functions that cannot be used <ul style="list-style-type: none"> <li>- Operations for physical servers and physical L-Servers</li> <li>- Virtualization using HBA address rename</li> </ul> </li> </ul>	None.	2014/1
4	<p>Use of Extended Partition is restricted on PRIMEQUEST 2000 series servers.</p>	None.	Not yet determined
5	<p>PRIMERGY RX4770 M1s cannot be used as physical servers.</p>	None.	Not yet determined
6	<p>When a VIOM server profile with a virtual address to be allocated only to the first on-board NIC performs switchover or switchback of the server allocated to a BX2560 M1, as the port of the second on-board NIC is closed, NICs without virtual addresses cannot be used. This behavior occurs when using version 3.4.6 of VIOM.</p>	<p>For VIOM server profiles allocated to BX2560 M1, allocate virtual addresses to all on-board NICs.</p>	Not yet determined

## 3.2 Restrictions in Virtual Edition

None.

## 3.3 Restrictions in Cloud Edition

Restrictions in the Cloud Edition are as indicated below.

Table 3.2 Restrictions in Cloud Edition

No.	Restriction	Corrective Action	Release Schedule
1	After an admin server is backed up, it is not possible to recover L-Platforms that have been created, modified, or deleted.	If L-Platforms have been created, modified, or deleted after backup of the admin server, perform backup again.	Next release
2	Basic mode cannot be used.	None.	Not yet determined
3	iSCSI boot is not possible for physical L-Servers under the following conditions: <ol style="list-style-type: none"> <li>1. A LUN of the NetApp storage of the iSCSI connection is used as a system disk. AND,</li> <li>2. The OS is Windows.</li> </ol>	None.	Not yet determined
4	It is not possible to change the admin IP address or port number. (This applies to admin servers and agents)	None.	Next release
5	Under the following conditions, even if stopping of the server is performed from the "Reconfiguration" page of L-Platform management, reconfiguration cannot be performed. <ol style="list-style-type: none"> <li>1. When an L-Platform with some servers running is selected and the "Details" button is pressed in L-Platform management, AND,</li> <li>2. The "Reconfiguration" button is pressed in the L-Platform details, AND,</li> <li>3. The "OFF" button for running servers is pressed on the Reconfiguration page.</li> </ol>	None.	Not yet determined
6	Under the following conditions, the values input in the "Reconfiguration" page of L-Platform management are displayed and become uneditable, but the reconfiguration is not performed. <ol style="list-style-type: none"> <li>1. An L-Platform with some servers stopped is selected and the "Details" button in L-Platform management is pressed. AND,</li> <li>2. The "Reconfiguration" button is pressed in the L-Platform details, AND,</li> <li>3. The "ON" button for the stopped servers is pressed on the "Specification Change" page.</li> </ol>	None.	Not yet determined
7	Under the following conditions, even though a request to cancel an application has been made, L-Platform operations are not restricted. <ol style="list-style-type: none"> <li>1. A tenant user has made an application to change the configuration of an L-Platform from L-Platform management. AND,</li> <li>2. A tenant user has made an application to cancel an L-Platform from L-Platform management. AND,</li> </ol>	None.	Not yet determined

No.	Restriction	Corrective Action	Release Schedule
	3. A tenant user has cancelled an application to change the configuration of an L-Platform during subscription.		
8	In L-Platform subscriptions after saving a configuration, items that have been modified, added, or deleted from the initial settings of the template are not displayed.  If an L-Platform subscription is submitted in this situation, these items are also not displayed in the "Details" area of the "Application" tab of the Request tab.	Submit a new L-Platform subscription request without saving the configuration.	Not yet determined
9	When the OS of a managed server is Oracle Solaris 11, the following operations cannot be performed for Solaris Zones:  - Registration and deletion of BMC BladeLogic Server Automation  - Creation, deletion, and modification of L-Servers  - Migration of L-Servers between servers	None.	Not yet determined
10	On the [L-Platforms] tab of the ROR console, cloning images cannot be collected from servers which use Citrix XenServer for virtualization software, if the VM guest customization function is enabled.	None.	Not yet determined
11	In the System Conditions window, not all the information is displayed if a managed VM host is OVM for x86 2.2 and OVM for x86 3.2.	None.	Not yet determined
12	In the System Conditions window, not all the information is displayed if a managed VM host is Citrix XenServer.	None.	Not yet determined
13	The disaster recovery function cannot be used when using a non-default VFAB (Virtual Fabric) for Fujitsu Converged Fabric Switch.	None.	Next release
14	When using Firefox, none of the functions of the [Request] tab on the ROR console can be used.	Please use Internet Explorer.	Next release
15	When using Firefox, the L-Servers console screen cannot be started from the [Resource] tab on the ROR console.	Please use Internet Explorer.	Not yet determined
16	[Linux Manager] The export function for virtual L-Servers cannot be used.	None.	Not yet determined
17	[Linux Manager] Capacity planning (function for forecasting demand of resource pools and simulating the relocation of VM guests) cannot be used.	None.	Not yet determined
18	When using RHEL-KVM as managed servers, the following configurations are restricted.  - File configurations of guest images  - Storage NAS environments	None.	Not yet determined
19	The VDI management software is not able to be registered, not to be changed, and to delete it.	Refer to "M.1.1 Installation" in the "Setup Guide CE".	[Windows Manager] 2015/2 (Program patch T009378WP-06 has been applied)
20	PRIMERGY RX4770 M1 cannot be used as resources of physical L-Servers.	None.	Not yet determined

No.	Restriction	Corrective Action	Release Schedule
21	When a single NIC is used, and a physical L-Server for which the physical server is a BX2560 M1 is deleted, as the port of the second on-board NIC is closed, the NIC cannot be used.	When creating a physical L-Server for which the physical server is a BX2560 M1, configure two NICs.	Not yet determined