FUJITSU Software
ServerView Resource Orchestrator V3.2.0

Release Notes

Windows/Linux

Preface

Purpose of This Document

This manual explains the outlines, information about compatibility, and restrictions regarding functions added from FUJITSU Software ServerView Resource Orchestrator V3.2.0.

Intended Readers

This manual is intended for users considering introducing or upgrading FUJITSU Software ServerView Resource Orchestrator.

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.

Chapter 4 Information Regarding Starting and Stopping

Explains information about starting and stopping.

Web Site URLs

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

Document Conventions

The notation in this manual conforms to the following conventions.

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

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

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

[Windows Manager]	Sections related to Windows manager
[Linux Manager]	Sections related to Linux manager
[Windows]	Sections related to Windows
[Linux]	Sections related to Linux
[Red Hat Enterprise Linux]	Sections related to Red Hat Enterprise Linux
[Solaris]	Sections related to Solaris
[VMware]	Sections related to VMware
[Horizon View]	Sections related to VMware Horizon View

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

- Unless specified otherwise, the blade servers mentioned in this manual refer to PRIMERGY BX servers.

- Oracle Solaris may also be indicated as Solaris, Solaris Operating System, or Solaris OS.

- Oracle Solaris Zones may also be indicated as Solaris Containers or Solaris Container.

- Oracle VM Server for x86 may also be indicated as Oracle VM.

- In Resource Orchestrator, the following servers are referred to as SPARC Enterprise.

    - SPARC Enterprise M3000/M4000/M5000/M8000/M9000

    - SPARC Enterprise T5120/T5140/T5220/T5240/T5440

- In Resource Orchestrator, the following servers are referred to as SPARC M10.

    - SPARC M10-1/M10-4/M10-4S

- Fujitsu M10 is the product name used for SPARC M10 when they are sold outside Japan.

- References and character strings or values requiring emphasis are indicated using double quotes (").

- GUI items are shown enclosed by brackets ([ ]).

- The order of selecting menus is indicated using [ ]-[ ].

- Text to be entered by the user is indicated using bold text.

- Variables are indicated using italic text and underscores.

- The ellipses ("...") in menu names, indicating settings and operation window startup, are not shown.

- The ">" used in Windows is included in usage examples. When using Linux, read ">" as meaning "#".

- When using Resource Orchestrator on Windows 8 and Windows Server 2012, please note the following.
  When OS operations are explained in this manual, the examples assume OSs up to Windows 7 and Windows Server 2008. When using Resource Orchestrator on Windows 8 or Windows Server 2012, take explanations regarding the [Start] menu as indicating the [Apps] screen.
  The [Apps] screen can be displayed by right-clicking on the [Start] screen and then right-clicking [All apps].

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

Menus in the ROR console

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

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

Regarding Installation Folder Paths

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

Replace it as shown below.

[Virtual Edition]

  - When using Windows 64-bit (x64)

    C:\Program Files (x86)\Resource Orchestrator

  - When using Windows 32-bit (x86)

    C:\Program Files\Resource Orchestrator

[Cloud Edition]

C:\Program Files (x86)\Resource Orchestrator

Command Examples

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

Abbreviations

The following abbreviations are used in this manual:

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

Abbreviation	Products
Windows Server 2003	Microsoft(R) Windows Server(R) 2003 R2, Standard Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition
Windows 2003 x64 Edition	Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition
Windows Server 2008	Microsoft(R) Windows Server(R) 2008 Standard Microsoft(R) Windows Server(R) 2008 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Datacenter
Windows 2008 x86 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x86) Microsoft(R) Windows Server(R) 2008 Enterprise (x86)
Windows 2008 x64 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x64) Microsoft(R) Windows Server(R) 2008 Enterprise (x64)
Windows Server 2012	Microsoft(R) Windows Server(R) 2012 Standard Microsoft(R) Windows Server(R) 2012 Datacenter Microsoft(R) Windows Server(R) 2012 R2 Essentials Microsoft(R) Windows Server(R) 2012 R2 Standard Microsoft(R) Windows Server(R) 2012 R2 Datacenter
Windows PE	Microsoft(R) Windows(R) Preinstallation Environment
Windows Vista	Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate
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
Windows 10	Windows(R) 10 Pro Windows(R) 10 Enterprise
Linux	Red Hat(R) Enterprise Linux(R) AS (v.4 for x86) Red Hat(R) Enterprise Linux(R) ES (v.4 for x86) Red Hat(R) Enterprise Linux(R) AS (v.4 for EM64T) Red Hat(R) Enterprise Linux(R) ES (v.4 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.5 for x86) Red Hat(R) Enterprise Linux(R) ES (4.5 for x86) Red Hat(R) Enterprise Linux(R) AS (4.5 for EM64T) Red Hat(R) Enterprise Linux(R) ES (4.5 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.6 for x86) Red Hat(R) Enterprise Linux(R) ES (4.6 for x86) Red Hat(R) Enterprise Linux(R) AS (4.6 for EM64T) Red Hat(R) Enterprise Linux(R) ES (4.6 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.7 for x86) Red Hat(R) Enterprise Linux(R) ES (4.7 for x86) Red Hat(R) Enterprise Linux(R) AS (4.7 for EM64T) Red Hat(R) Enterprise Linux(R) ES (4.7 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.8 for x86) Red Hat(R) Enterprise Linux(R) ES (4.8 for x86) Red Hat(R) Enterprise Linux(R) AS (4.8 for EM64T)

Abbreviation	Products
	Red Hat(R) Enterprise Linux(R) ES (4.8 for EM64T)
	Red Hat(R) Enterprise Linux(R) 5 (for x86)
	Red Hat(R) Enterprise Linux(R) 5 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 5.1 (for x86)
	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 (for x86)
	Red Hat(R) Enterprise Linux(R) 6 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.1 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.2 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.3 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.4 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.5 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.6 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.7 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 6.8 (for x86)
	Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64)
	Red Hat(R) Enterprise Linux(R) 7.0 (for Intel64)
	SUSE(R) Linux Enterprise Server 10 Service Pack 2 for x86
	SUSE(R) Linux Enterprise Server 10 Service Pack 2 for EM64T
	SUSE(R) Linux Enterprise Server 10 Service Pack 3 for x86
	SUSE(R) Linux Enterprise Server 10 Service Pack 3 for EM64T
	SUSE(R) Linux Enterprise Server 11 for x86
	SUSE(R) Linux Enterprise Server 11 for EM64T
	SUSE(R) Linux Enterprise Server 11 Service Pack 1 for x86
	SUSE(R) Linux Enterprise Server 11 Service Pack 1 for EM64T
	Oracle Enterprise Linux Release 6.7 for x86 (32bit)
	Oracle Enterprise Linux Release 6.7 for 86_64 (64bit)
	Oracle Enterprise Linux Release 7.2 for x86 (32bit)
	Oracle Enterprise Linux Release 7.2 for x86_64 (64bit)

Abbreviation	Products
Red Hat Enterprise Linux	Red Hat(R) Enterprise Linux(R) AS (v.4 for x86) Red Hat(R) Enterprise Linux(R) ES (v.4 for x86) Red Hat(R) Enterprise Linux(R) AS (v.4 for EM64T) Red Hat(R) Enterprise Linux(R) ES (v.4 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.5 for x86) Red Hat(R) Enterprise Linux(R) ES (4.5 for x86) Red Hat(R) Enterprise Linux(R) AS (4.5 for EM64T) Red Hat(R) Enterprise Linux(R) ES (4.5 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.6 for x86) Red Hat(R) Enterprise Linux(R) ES (4.6 for x86) Red Hat(R) Enterprise Linux(R) AS (4.6 for EM64T) Red Hat(R) Enterprise Linux(R) ES (4.6 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.7 for x86) Red Hat(R) Enterprise Linux(R) ES (4.7 for x86) Red Hat(R) Enterprise Linux(R) AS (4.7 for EM64T) Red Hat(R) Enterprise Linux(R) ES (4.7 for EM64T) Red Hat(R) Enterprise Linux(R) AS (4.8 for x86) Red Hat(R) Enterprise Linux(R) ES (4.8 for x86) Red Hat(R) Enterprise Linux(R) AS (4.8 for EM64T) Red Hat(R) Enterprise Linux(R) ES (4.8 for EM64T) Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.1 (for x86) 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 (for x86) Red Hat(R) Enterprise Linux(R) 6 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.1 (for x86) Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.5 (for x86) Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)

Abbreviation	Products
	Red Hat(R) Enterprise Linux(R) 6.6 (for x86) Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.7 (for x86) Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.8 (for x86) Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64) Red Hat(R) Enterprise Linux(R) 7.0 (for Intel64)
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) 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 (for x86) Red Hat(R) Enterprise Linux(R) 6 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.1 (for x86) Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.5 (for x86) Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.6 (for x86) Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.7 (for x86) Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.8 (for x86) Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64)
Red Hat Enterprise Linux 7	Red Hat(R) Enterprise Linux(R) 7.0 (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

Abbreviation	Products
RHEL-KVM	Red Hat(R) Enterprise Linux(R) 6.1 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Virtual Machine 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 Red Hat(R) Enterprise Linux(R) 6.6 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.7 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.8 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64) Virtual Machine Function
Xen	Citrix XenServer(R) 5.5 Citrix Essentials(TM) for XenServer 5.5, Enterprise Edition Citrix XenServer(R) 6.0 Citrix Essentials(TM) for XenServer 6.0, Enterprise Edition Red Hat(R) Enterprise Linux(R) 5.3 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) Linux Virtual Machine Function

Abbreviation		Products
		Red Hat(R) Enterprise Linux(R) 5.8 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.8 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.9 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.9 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.10 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.10 (for Intel64) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.11 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.11 (for Intel64) Linux Virtual Machine Function
XenServer 6		Citrix XenServer(R) 6.0 Citrix Essentials(TM) for XenServer 6.0, Enterprise Edition
DOS		Microsoft(R) MS-DOS(R) operating system, DR DOS(R)
SUSE Linux Enterprise Server		SUSE(R) Linux Enterprise Server 10 Service Pack 2 for x86 SUSE(R) Linux Enterprise Server 10 Service Pack 2 for EM64T SUSE(R) Linux Enterprise Server 10 Service Pack 3 for x86 SUSE(R) Linux Enterprise Server 10 Service Pack 3 for EM64T SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T SUSE(R) Linux Enterprise Server 11 Service Pack 1 for x86 SUSE(R) Linux Enterprise Server 11 Service Pack 1 for EM64T
Oracle Enterprise Linux		Oracle Enterprise Linux Release 6.7 for x86 (32bit) Oracle Enterprise Linux Release 6.7 for 86_64 (64bit) Oracle Enterprise Linux Release 7.2 for x86 (32bit) Oracle Enterprise Linux Release 7.2 for x86_64 (64bit)
Solaris		Oracle Solaris 10 05/09 (Update7) Oracle Solaris 11 11/11 Oracle Solaris 11.1 Oracle Solaris 11.2
OVM for x86 2.2		Oracle(R) VM Server for x86 2.2
OVM for x86 3.x	OVM for x86 3.2	Oracle VM Server for x86 v3.2.*x*
	OVM for x86 3.3	Oracle VM Server for x86 v3.3.*x*
OVM for SPARC		Oracle(R) VM Server for SPARC
Oracle VM Manager		Oracle(R) VM Manager
Citrix XenServer		Citrix XenServer(R) 6.0 Citrix XenServer(R) 6.0.2 Citrix XenServer(R) 6.1.0 Citrix XenServer(R) 6.2.0
ESC		ETERNUS SF Storage Cruiser
GLS		PRIMECLUSTER GLS
Navisphere		EMC Navisphere Manager
Solutions Enabler		EMC Solutions Enabler
MSFC		Microsoft Failover Cluster

Abbreviation	Products
Solaris	Oracle Solaris 10 05/09 (Update7) Oracle Solaris 11 11/11 Oracle Solaris 11.1 Oracle Solaris 11.2
SCVMM	System Center Virtual Machine Manager 2008 R2 System Center 2012 Virtual Machine Manager System Center 2012 R2 Virtual Machine Manager
VMware	VMware vSphere(R) 4 VMware vSphere(R) 4.1 VMware vSphere(R) 5 VMware vSphere(R) 5.1 VMware vSphere(R) 5.5 VMware vSphere(R) 6
VMware ESX	VMware(R) ESX(R)
VMware ESX 4	VMware(R) ESX(R) 4
VMware ESXi	VMware(R) ESXi(TM)
VMware ESXi 5.0	VMware(R) ESXi(TM) 5.0
VMware ESXi 5.1	VMware(R) ESXi(TM) 5.1
VMware ESXi 5.5	VMware(R) ESXi(TM) 5.5
VMware ESXi 6.0	VMware(R) ESXi(TM) 6.0
VMware Infrastructure Client	VMware(R) Infrastructure Client
VMware Tools	VMware(R) Tools
VMware vSphere 4.0	VMware vSphere(R) 4.0
VMware vSphere 4.1	VMware vSphere(R) 4.1
VMware vSphere 5	VMware vSphere(R) 5
VMware vSphere 5.1	VMware vSphere(R) 5.1
VMware vSphere 5.5	VMware vSphere(R) 5.5
VMware vSphere 6.0	VMware vSphere(R) 6.0
VMware vSphere Client	VMware vSphere(R) Client
VMware vCenter Server	VMware(R) vCenter(TM) Server
VMware vClient	VMware(R) vClient(TM)
VMware FT	VMware(R) Fault Tolerance
VMware DRS	VMware(R) Distributed Resource Scheduler
VMware DPM	VMware(R) Distributed Power Management
VMware Storage VMotion	VMware(R) Storage VMotion
VMware vDS	VMware(R) vNetwork Distributed Switch
VMware Horizon View	VMware Horizon View 5.2.x VMware Horizon View 5.3.x VMware Horizon 6.0 (with View)
VIOM	ServerView Virtual-IO Manager
SVOM	ServerView Operations Manager
BladeLogic	BMC BladeLogic Server Automation

Abbreviation	Products
Excel	Microsoft(R) Office Excel(R) 2003 Microsoft(R) Office Excel(R) 2007 Microsoft(R) Office Excel(R) 2010 Microsoft(R) Office Excel(R) 2013
Excel 2003	Microsoft(R) Office Excel(R) 2003
Excel 2007	Microsoft(R) Office Excel(R) 2007
Excel 2010	Microsoft(R) Office Excel(R) 2010
Excel 2013	Microsoft(R) Office Excel(R) 2013
Internet Explorer	Windows(R) Internet Explorer(R) 8 Windows(R) Internet Explorer(R) 9 Windows(R) Internet Explorer(R) 10 Internet Explorer(R) 11
Firefox	Firefox(R)
ServerView Agent	ServerView SNMP Agents for MS Windows (32bit-64bit) ServerView Agents Linux ServerView Agents VMware for VMware ESX Server
RCVE	ServerView Resource Coordinator VE
ROR	FUJITSU Software ServerView Resource Orchestrator
ROR VE	FUJITSU Software ServerView Resource Orchestrator Virtual Edition
ROR CE	FUJITSU Software ServerView Resource Orchestrator Cloud Edition
Resource Coordinator	Systemwalker Resource Coordinator Systemwalker Resource Coordinator Virtual server Edition
Resource Coordinator VE	ServerView Resource Coordinator VE Systemwalker Resource Coordinator Virtual server Edition
Resource Orchestrator	FUJITSU Software ServerView Resource Orchestrator
SVFAB	ServerView Fabric Manager

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September 2016, Edition 2.9	J2X1-7873-02ENZ0(09)
October 2016, Edition 2.10	J2X1-7873-02ENZ0(10)
November 2016, Edition 2.11	J2X1-7873-02ENZ0(11)

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Contents

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.

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 V3.2.0

1.1.1 Overview of Additional Functions in V3.2.0

This section explains the additional functions added in V3.2.0.

Table 1.1 Overview of Additional Functions in V3.2.0

No.	Function	Content	Reference Location	VE	CE
1	Support of role information switchover with Disaster Recovery	Role information is now included in the switchover target of Disaster Recovery.	- "DR Option Instruction" - "2.6.3 Items to be Different between the Switchover Source and Destination Sites" - "4.1 Normal Operation" - "4.2.10 Reflecting Customization of Roles [Switchover Destination Site]" - "4.4 Failback after Recovery of the Switchover Source Site"	-	Yes

No.	Function	Content	Reference Location	VE	CE

2	Support of automatic takeover of Disaster Recovery configuration files	ROR configuration files are now included in the switchover target of Disaster Recovery.	- "DR Option Instruction"
			
			  - "3.3 Manager Installation and Configuration"
			
			  - "4.1 Normal Operation"
			
			  - "B.2 rcxrecovery"
				-	Yes

3	RHEL 7 support	Supports RHEL 7 for managed servers.	- "Overview"
			
			  - "6.1.1.1 Required Basic Software"
			
			  - "6.1.1.3 Required Packages"
			
			  - "6.1.2.1 Required Basic Software"
			
			  - "6.1.2.3 Required Packages"
			
			- "Setup Guide VE"
			
			  - "2.2.1.1 Software Preparation and Checks"
			
			  - "9.2 Configuration"
			
			- "User's Guide VE"
			
			  - "16.2 Backup"
			
			  - "16.3 Restore"
			
			  - "17.1 Overview"
			
			  - "17.2 Collecting"
			
			  - "17.3 Deploying"
			
			  - "18.2 Settings for Server Switchover"
			
			- "Reference Guide (Command) VE"
			
			  - "3.4 rcxadm server"
			
			- "Setup Guide CE"
			
			  - "2.2.1.1 Software Preparation and Checks"
			
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"
			
			  - "12.1 Overview"
			
			  - "12.2 Collecting"
			
			  - "12.3 Deploying"
			
			- "Reference Guide (Command/ XML) CE"
			
			  - "3.11 rcxadm server"
			
			  - "Appendix C Registered Software IDs"
				Yes	Yes

No.	Function	Content	Reference Location	VE	CE

4	SELinux support	SELinux is supported.	- "Setup Guide VE"
			
			  - "2.1.2.6 Installation"
			
			  - "2.2.3 Installation [Linux] [VMware] [Xen] [KVM]"
			
			  - "11.1.3 Uninstallation [Linux Manager]"
			
			  - "11.2.2 Uninstallation [Linux] [VMware] [Xen] [KVM]"
			
			  - "Appendix H Configuring and Deleting SELinux [Linux]"
			
			- "Setup Guide CE"
			
			  - "2.1.2.6 Installation"
			
			  - "2.2.3 Installation [Linux] [VMware] [Xen] [KVM]"
			
			  - "11.1.3 Uninstallation [Linux Manager]"
			
			  - "11.2.2 Uninstallation [Linux] [VMware] [Xen] [KVM]"
			
			  - "Appendix J Configuring and Deleting SELinux [Linux]"
				Yes	Yes

5	Support of virtual L-Server deployment without coordination with BMC BladeLogic Server Automation	Supports virtual L-Server deployment without coordination with BMC BladeLogic Server Automation in Fujitsu M10 environments, when the OS of managed servers is Solaris 11.	- "Release Notes"
			
			  - Items 9 in "3.3 Restrictions in Cloud Edition"
			
			- "Design Guide CE"
			
			  - "E.6 Solaris Zones"
			
			- "Setup Guide CE"
			
			  - "8.7 Solaris Zones"
			
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"
			
			  - "14.5 Storage Resources"
			
			  - "16.3.2 [Server] Tab"
			
			  - "Chapter 17 L-Server Operations"
			
			  - "20.6 Viewing"
			
			- "User's Guide for Infrastructure Administrators CE"
			
			  - "8.4.2.2 Set Basic Info Page"
			
			- "User's Guide for Tenant Administrators CE"
			
			  - "7.4.2.2 Set Basic Info Page"
				-	Yes

No.	Function	Content	Reference Location	VE	CE
		- 4 -	- "8.3.2 L-Platform Detailed Information Display"		
			- "8.3.18 L-Platform Reconfiguration"		
			- "8.3.20.5 Edit a Virtual Server"		
			- "User's Guide for Tenant Users CE"		
			- "5.3.2 L-Platform Detailed Information Display"		
			- "5.3.16 L-Platform Reconfiguration"		
			- "5.3.18 Reconfiguration Page"		
			- "Reference Guide (Command/ XML) CE"		
			- "9.9 cfmg_listimageinfo (Displaying Image Information List)"		
			- "14.4.3 DestroyDisk (Deletes Additional Disks)"		
			- "15.20.2.2 File Information Details"		
			- "Reference Guide (API) CE"		
			- "2.1.5 ListDiskImage (Gets a List of Cloning Images)"		
			- "2.2.3 DestroyLPlatform (Returns an L-Platform)"		
			- "2.2.9 ListLPlatform (Gets a List of L-Platform)"		
			- "2.3.5 CreateLServer (Creates a New Server)"		
			- "2.3.6 CreateNic (Add NIC to Server)"		
			- "2.3.8 DestroyLServer (Deletes Server)"		
			- "2.3.9 DestroyNic (Delete Specified NIC from Server)"		
			- "2.3.12 ExpandSysvolSize (Increase the Size of System Volume)"		
			- "2.3.14 GetLServerConfiguration (Gets Configuration Information for a Server)"		

No.	Function	Content	Reference Location	VE	CE
			- "2.3.15 GetLServerInitialPassword (Gets the Password for the Initial Administrator for the Operating System of a Server)"		
			- "2.3.23 UpdateIPAddress (Updates a Server IP Address)"		
			- "2.3.24 UpdateLServerAttributes (Updates the Attributes of a Server)"		
			- "2.3.25 UpdateLServerConfiguration (Changes the Performance of a Server)"		
			- "2.4.1 AttachDisk (Attaches an Existing Disk)"		
			- "2.4.2 CreateDisk (Adds Additional Disks)"		
			- "2.4.3 DestroyDisk (Deletes Additional Disks)"		
			- "2.4.4 DetachDisk (Detaches an Existing Disk)"		
6	Support of import of virtual L-Servers	Supports the function to import VM guests as virtual L-Servers in order to migrate VM guests from external cloud services, etc.	- "User's Guide for Infrastructure Administrators (Resource Management) CE" 　- "17.10 Exporting and Importing Virtual L-Servers"	-	Yes
7	Support of NetworkViewer logical maps	Supports logical maps in NetworkViewer.	- "Overview" 　- "5.2.2.2 NetworkViewer (Cloud Edition)" - "Design Guide CE" 　- "2.2.7.6 Simple Network Monitoring" - "User's Guide for Infrastructure Administrators (Resource Management) CE" 　- "11.1 Overview" 　- "11.2.1 Layout" 　- "11.2.3 Network View (Logical Map)" 　- "11.2.5 Network View (Logical List)"	-	Yes

No.	Function	Content	Reference Location	VE	CE
			- "11.2.6 Utility Panel (Custom View)"		
			- "11.2.8.1 Resource Display"		
			- "11.2.9.2 Link Display (Logical Map)"		
			- "11.4 Advisory Notes"		
			- "Glossary"		
8	SBAX3 L2/EHM mode support	Supports SBAX L2/EHM mode.	- "Design Guide VE"	Yes	Yes
			- "7.1 Network Configuration"		
			- "7.5 Network Device Management Settings"		
			- "7.6 Configuring the Network Environment"		
			- "User's Guide VE"		
			- "7.3.3 Registering LAN Switch Blades"		
			- "8.1 Changing Admin IP Addresses"		
			- "9.4.1 Changing Basic Settings of LAN Switch Blades and LAN Switches"		
			- "A.6.4 LAN Switch Blade Attributes"		
			- "B.3 Resource Definitions"		
			- "Design Guide CE"		
			- "9.3.6 Pre-configuring LAN Switch Blades on Managed Blade Systems"		
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"		
			- "5.4.3 Registering LAN Switch Blades"		
			- "6.1 Changing Admin IP Addresses"		
			- "7.4.1 Changing Basic Settings of LAN Switch Blades and LAN Switches (L2 Switches)"		
			- "A.7.4 LAN Switch Blade Attributes"		
			- "B.3 Resource Definitions"		
9	CNA UMC (NIC) support	Supports CNA UMC (NIC).	- "Overview"	Yes	Yes
			- "6.2.1 All Editions"		

No.	Function	Content	Reference Location	VE	CE

			- "User's Guide VE"
			  - "17.1 Overview"
			  - "A.6.2 Server Attributes"
			- "Design Guide CE"
			  - "D.4 Network Preparations"
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"
			  - "12.1 Overview"
			  - "15.1.2 Creating"
			  - "16.1 Creation Using an L-Server Template"
			  - "16.2 Creation of Physical L-Servers Using Parameters"
			  - "17.2.5 Modifying Network Resource Settings"
			  - "17.9 Changing Physical Server Usage"
			  - "17.9.1 Configuring L-Servers for Usage Change"
			  - "18.1 Management Scope"
			  - "A.7.2 Server Attributes"
			  - "A.7.14 L-Server Attributes"
			- "Reference Guide (Command/XML) CE"
			  - "3.6 rcxadm lserver"
			  - "4.1 rcxadm image"
			- "NS Option Instruction"
			  - "1.4.1 Hardware Environment"		

10	Support of storage migration in Hyper-V environments	Supports migration of storage in Hyper-V environments.	- "Overview"
			  - "6.1.2.1 Required Basic Software"
			- "Design Guide CE"
			  - "11.1 Deciding Server Virtualization Software"
			- "Setup Guide CE"
			  - "8.3.10 Advisory Notes for Hyper-V Usage"
				-	Yes

11	Support of Thin Provisioning on Hyper-V	Supports Thin Provisioning in Hyper-V environments.	- "Design Guide CE" - "11.1 Deciding Server Virtualization Software"	-	Yes

No.	Function	Content	Reference Location	VE	CE
			- "Setup Guide CE"		
			- "8.1 Definition Files Commonly Shared when Creating Virtual L-Servers"		
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"		
			- "17.2.6 Increasing Disk Capacity"		
			- "19.3 Moving"		
			- "20.6 Viewing"		
			- "Reference Guide (Command/ XML) CE"		
			- "3.15 rcxadm vstorage"		
12	Support for OVM for x86 3.2 on the Dashboard (System Conditions)	Enables use of the Dashboard (System Conditions) when the server virtualization software is OVM for x86.	- "Release Notes"	-	Yes
			- Item 11 in "3.3 Restrictions in Cloud Edition"		
			- "Overview"		
			- "6.1.2.7 Dynamic Disk Space"		
			- "Design Guide CE"		
			- "11.1 Deciding Server Virtualization Software"		
			- "E.3.2 Preparations for Servers"		
			- "E.5.2 Preparations for Servers"		
			- "E.9.2 Preparations for Servers"		
			- "User's Guide for Infrastructure Administrators CE"		
			- "5.2.1 System Conditions Display"		
			- "5.3.1 System Conditions Display"		
			- "User's Guide for Tenant Administrators CE"		
			- "5.2.1 System Conditions Display"		
			- "User's Guide for Tenant Users CE"		
			- "4.2.1 System Conditions Display"		
13	Simplified configuration of Chinese display settings	Simplifies configuration of Chinese display settings.	- "Setup Guide CE"	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			- "2.1.1.3 Collecting and Checking Required Information"		
			- "2.1.2.3 Collecting and Checking Required Information"		
			- "Reference Guide (Command/ XML) CE"		
			- "15.20.1.2 File Information Details"		
			- "15.20.4.2 File Information Details"		
			- "Reference Guide (API) CE"		
			- "Chapter 2 L-Platform API Reference"		

14	Improved display of the installation selection window	The targets of installation displayed on the installation selection window displayed when the installer (RcSetup.exe) is started or the install command (RcSetup.sh) is executed are displayed based on the edition.	- "Setup Guide VE"
			  - "2.1 Manager Installation"
			  - "2.2 Agent Installation"
			  - "2.3 HBA address rename Setup Service Installation"
			- "Setup Guide CE"
			  - "2.1 Manager Installation"
			  - "2.2 Agent Installation"
			  - "2.3 Agent (Dashboard Function) Installation"
			  - "2.4 HBA address rename Setup Service Installation"
				Yes	Yes

15	Support of guest OS customization on OVM for x86	Supports the function for guest OS customization in OVM for x86 environments.	- "Design Guide CE"
			  - "11.1 Deciding Server Virtualization Software"
			  - "E.9.1 System Configuration"
			- "Setup Guide CE"
			  - "8.10.1 Creating Definition Files"
			  - "8.10.3 Registering Resources in Resource Pools"
			  - "8.10.7 Collecting and Registering Cloning Images"
			  - "8.10.8 [OS] Tab Configuration"
			  - "8.10.12 Customization Function of Guest OS"
			- "Operation Guide CE"
				-	Yes

No.	Function	Content	Reference Location	VE	CE
			- "7.2.4 Cases when Guest OS Information is not Set Automatically [RHEL-KVM] [Citrix Xen][OVM for x86 3.x]"		
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"		
			- "16.3.5 [OS] Tab"		
			- "17.5.1 Collecting and Registering"		
			- "A.7.24 Image Pool Attributes"		
			- "Reference Guide (Command/ XML) CE"		
			- "3.18 rcxadm vcdsrvctl"		
			- "4.1 rcxadm image"		
			- "15.20.1.2 File Information Details"		
			- "15.20.2.2 File Information Details"		

1.1.2 Overview of Additional Functions in V3.2.0 (T011583LP-01/ T011582WP-01)

This section explains the additional functions added in V3.2.0 (T011583LP-01/T011582WP-01).

In Cloud Edition, as well as the modifications of T011583LP-01/T011582WP-01, the additional functions of T011494LP-02/ T011495WP-02 are also included.

Table 1.2 Overview of Additional Functions in V3.2.0 (T011583LP-01/T011582WP-01)

No.	Function	Content	Reference Location	VE	CE
1	Hardware Support	Supports the following models of hardware: - PRIMERGY BX2580 M1	- "Overview" - "6.2.1 All Editions" - "User's Guide VE" - "17.6 Network Parameter Auto-Configuration for Cloning Images" - "Setup Guide CE" - "7.3.1 Automatic Network Configuration" - "8.2.4 Automatic Network Configuration" - "8.3.4 Automatic Network Configuration"	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"		
			- "14.2 Physical Server Resources"		
			- "15.1.2.1 Creating a Physical L-Server Template"		
2	Support for VMware vSphere 6	Supports VMware vSphere 6.	- "Overview"	Yes	Yes
			- "5.2.5 Centralized Management of System Images"		
			- "6.1.1.1 Required Basic Software"		
			- "6.1.1.4 Required Software"		
			- "6.1.2.1 Required Basic Software"		
			- "6.1.2.4 Required Software"		
			- "Messages"		
			- "4.6.3 673XX Series"		
			- "Release Notes"		
			- "3.2 Restrictions in Virtual Edition"		
			- "3.3 Restrictions in Cloud Edition"		
			- "Design Guide CE"		
			- "11.1 Deciding Server Virtualization Software"		
			- "Appendix A Port List"		
			- "E.1.2 Preparations for Servers"		
			- "E.1.4 Network Preparations"		
			- "Setup Guide CE"		
			- "8.1.7 OS Property Definition File"		
			- "8.2.1 Creating Definition Files"		
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"		
			- "16.1 Creation Using an L-Server Template"		
			- "17.3 Using the L-Server Console"		

No.	Function	Content	Reference Location	VE	CE
			- "A.2.1 List of Menus"		
			- "A.2.2 Popup Menus"		
			- "A.5 Console Screen"		
			- "Reference Guide (Command/ XML) CE"		
			- 15.3.2 Definition Information for Virtual L-Servers (XML)		
			- "Troubleshooting"		
			- "3.11 When Opening the Virtual L-Server Console Screen of VMware vSphere 5.1 or Later, Error 65311 is Output."		
			- "3.12 When Using the VMware vSphere 6 VM Host, Specific Operations Fail."		
			- "7.13 The Error Details are not Correctly Displayed in the Error Dialog even if the Operation in the Console Screen (VMware vSphere 5.1 or Later) has Failed."		

1.1.3 Overview of Additional Functions in V3.2.0 (T011583LP-02/ T011582WP-02)

This section explains the additional functions added in V3.2.0 (T011583LP-02/T011582WP-02).

In Cloud Edition, as well as the modifications of T011583LP-02/T011582WP-02, the additional functions of T011494LP-03/T011495WP-03 are also included.

Table 1.3 Overview of Additional Functions in V3.2.0 (T011583LP-02/T011582WP-02)

No.	Function	Content	Reference Location	VE	CE
1	Hardware Support	Supports the following models of hardware: - PRIMERGY RX2530 M1 - PRIMERGY RX2540 M1	- "Release Notes" - Items 27 in "3.3 Restrictions in Cloud Edition" - "Overview" - "6.1.1.2 Required Patches" - "6.1.2.2 Required Patches" - "6.2.1 All Editions" - "User's Guide VE" - "17.6 Network Parameter Auto-Configuration for Cloning Images" - "Design Guide CE" - "9.4.1.3 Network Configuration for Rack Mount	Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			or Tower Servers (Physical/ Virtual L-Servers)"		

2	Support for vSphere 6 VVOL	Supports vSphere 6 VVOL.	- "Release Notes"
			
			  - Item 1 in "3.2 Restrictions in Virtual Edition"
			
			  - Items 23 and 25 in "3.3 Restrictions in Cloud Edition"
			
			- "Design Guide CE"
			
			  - "E.1.3 Storage Preparations"
			
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"
			
			  - "17.10.1.1 Prerequisites for Export and Import"
				Yes	Yes

3	Red Hat(R) Enterprise Linux(R) 6.7 Support	Supports the following OSs: - Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) - Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) Virtual Machine Function	- "Overview" - "6.1.2.1 Required Basic Software"	-	Yes

1.1.4 Overview of Additional Functions in V3.2.0 (T011583LP-03/ T011582WP-03)

This section explains the additional functions added in V3.2.0 (T011583LP-03/T011582WP-03).

Table 1.4 Overview of Additional Functions in V3.2.0 (T011583LP-03/T011582WP-03)

No.	Function	Content	Reference Location	VE	CE

1	Support of network devices	A function for managing the following as network devices is now provided for the Virtual Edition.
		
		- Fujitsu SR-X 300/500 series
		
		- Cisco Catalyst 2900/2918/2928/2940/2950/ 2955/2960/2970/2975 series
		
		- Cisco Catalyst 3500/3550/3560/3750 series
		
		- Cisco Nexus
		
		- Cisco Nexus 5000 series
		
		- Brocade VDX 6710/6720/6730/6740/6740 T series
		
		- Fujitsu PRIMERGY Converged Fabric switch blades
			- "Overview"
			
			  - "5.1 Available Functions"
			
			  - "6.2.2 Virtual Edition"
			
			- "Design Guide VE"
			
			  - "7.7 When Managing Network Devices as Resources"
			
			  - "Appendix A Port List"
			
			  - "Appendix D Ethernet Fabric Devices"
			
			- "Operation Guide VE"
			
			  - "6.3.1 Reconfiguration of Hardware Properties"
			
			  - "6.4 Network Device Maintenance"
			
			- "User's Guide VE"
				Yes	- (*1)

No.	Function	Content	Reference Location	VE	CE
		- Fujitsu Converged Fabric switch blades - Fujitsu IPCOM EX IN/SC/LB series - Fujitsu IPCOM VA LS/SC/LB series - Cisco ASA 5500 series - F5 Networks BIG-IP Local Traffic Manager series - Fujitsu IPCOM VX series	- "7.5 Registering Network Devices" - "7.11 Registering LAN Switches" - "13.2.2 Network View (Physical Map)" - "13.2.5 Utility Panel (Property)" - "13.2.6.1 Resource Display" - "13.3.1 Starting NetworkViewer" - "13.3.6 Network View Information Output during Display" - "13.3.7 Point-to-Point Route Search" - "13.4 Advisory Notes" - "Chapter 20 Network Device Operations" - "A.2.1 List of Menus" - "A.2.2 Popup Menus" - "Reference Guide (Command) VE" - "3.2 rcxadm netconfig" - "3.3 rcxadm netdevice" - "Chapter 8 XML Files"		
2	Support of link display of rack servers on NetworkViewer.	Supports the link display function of rack servers on NetworkViewer.	- "Operation Guide VE" - "6.3.3 Replacing and Adding Server Components" - "9.3 Restoration" - "User's Guide VE" - "7.1.2 When Managing Rack Mount or Tower Servers Using VIOM" - "7.4.3 Registering the Public LAN (MAC Address) Information" - "9.1.14 Modifying the Public LAN (MAC Address) Information Settings" - "11.10 Deleting the Public LAN (MAC Address) Information" - "13.4 Advisory Notes"	Yes	-

No.	Function	Content	Reference Location	VE	CE
3	Red Hat(R) Enterprise Linux(R) 6.7 Support	Supports the following OSs: - Red Hat(R) Enterprise Linux(R) 6.7 (for x86) - Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) - Red Hat(R) Enterprise Linux(R) 6.7 (for x86) Virtual Machine Function - Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) Virtual Machine Function	- "Overview" - "6.1.1.1 Required Basic Software"	Yes	- (*2)

* 1: This function has been provided with the Cloud Edition since the first edition.
* 2: This function has been provided with the Cloud Edition since T011583LP-02/T011582WP-02.

1.1.5 Overview of Additional Functions in V3.2.0 (T011583LP-04/ T011582WP-04)

This section explains the additional functions added in V3.2.0 (T011583LP-04/T011582WP-04).

In Cloud Edition, as well as the modifications of T011583LP-04/T011582WP-04, the additional functions of T011494LP-05/ T011495WP-05 are also included.

Table 1.5 Overview of Additional Functions in V3.2.0 (T011583LP-04/T011582WP-04)

No.	Function	Content	Reference Location	VE	CE

1	Support of link display of rack servers on NetworkViewer.	Supports the link display function of rack servers on NetworkViewer.	- "Operation Guide CE"
			  - "9.3.3 Replacing and Adding Server Components"
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"
			  - "5.5.3 Registering the Public LAN (MAC Address) Information"
			  - "7.1.12 Modifying the Public LAN (MAC Address) Information Settings"
			  - "11.4 Advisory Notes"
				- (*)	Yes

2	Support of network devices	Supports monitoring of the following devices as Ethernet Fabrics:
		- Brocade VDX 6710 series
		- Brocade VDX 6720 series
		- Brocade VDX 6730 series
		- Brocade VDX 6740
		- Brocade VDX 6740T
		- Brocade VDX 6940 series
			- "Overview"
			  - "6.2.2 Virtual Edition"
			  - "6.2.3 Cloud Edition"
			- "Messages"
			  - "3.2.2 427XX Series"
			  - "4.2.2 627XX Series"
			- "Design Guide VE"
			  - "7.7.1 Settings for Managed Network Devices"
				Yes	Yes

No.	Function	Content	Reference Location	VE	CE
			- "7.7.3 Creating the Network Configuration Information (XML Definition)"		
			- "Appendix A Port List"		
			- "D.2 Brocade VCS Fabric"		
			- "Design Guide CE"		
			- "9.2.3.1 Settings for Management"		
			- "9.2.3.2 Settings for Pre-configuration"		
			- "9.3.3 Pre-configuring Managed Network Devices"		
			- "9.4.1 When Automatically Configuring the Network"		
			- "9.4.1.1 Automatic VLAN Configuration for LAN Switch Blades (Physical/Virtual L-Servers)"		
			- "9.4.1.9 Automatic Network Configuration for Ethernet Fabric Switches (Converged Fabric)"		
			- "9.4.8.1 When Creating Network Configuration Information (XML Definition)"		
			- "Appendix A Port List"		
			- "H.2 Brocade VCS Fabric"		
			- "User's Guide VE"		
			- "7.5 Registering Network Devices"		
			- "13.2.2 Network View (Physical Map)"		
			- "13.2.4 Utility Panel (Custom View)"		
			- "13.2.5 Utility Panel (Property)"		
			- "13.2.6.1 Resource Display"		
			- "A.6.5 Network Device Attributes"		
			- "User's Guide for Infrastructure Administrators (Resource Management) CE"		
			- "5.7 Registering Network Devices"		

No.	Function	Content	Reference Location	VE	CE
			- "11.2.2 Network View (Physical Map)"		
			- "11.2.7 Utility Panel (Property)"		
			- "11.3.6 Highlight Display of Resources"		
			- "A.7.5 Network Device Attributes"		
			- "Reference Guide (Command) VE"		
			- "3.3 rcxadm netdevice"		
			- "8.1.1 Creation"		
			- "8.1.2 Modification"		
			- "Reference Guide (Command/ XML) CE"		
			- "3.8 rcxadm netdevice"		
			- "15.7.1 Creation"		
			- "15.7.2 Modification"		

* Note: This function has been provided with the Virtual Edition since T011583LP-03/T011582WP-03

1.1.6 Overview of Additional Functions in V3.2.0 (T011582WP-06)

This section explains the additional functions added in V3.2.0 (T011582WP-06).

In Cloud Edition, as well as the modifications of T011582WP-06, the additional functions of T011497WP-07 are also included.

Table 1.6 Overview of Additional Functions in V3.2.0 (T011582WP-06)

No.	Function	Content	Reference Location	VE	CE

1	Hardware Support	Supports the following models of hardware:
		
		- PRIMERGY BX2560 M2
		- PRIMERGY BX2580 M2
		- PRIMERGY RX4770 M2
			- "Release Notes"
			
			  - Item 7 in "3.1 Restrictions Common to All Editions"
			
			  - Items 27 in "3.3 Restrictions in Cloud Edition"
			
			- "Overview"
			
			  - "6.2.1 All Editions"
			
			- "Design Guide CE"
			
			  - "9.4.1.3 Network Configuration for Rack Mount or Tower Servers (Physical/ Virtual L-Servers)"
			
			- "Setup Guide CE"
			
			  - "7.3.1 Automatic Network Configuration"
			
			  - "8.2.4 Automatic Network Configuration"
				Yes	Yes

No.	Function	Content	Reference Location	VE	CE

			- "8.3.4 Automatic Network Configuration"
			
			 - "User's Guide VE"
			
			  - "17.6 Network Parameter Auto-Configuration for Cloning Images"
			
			 - "User's Guide for Infrastructure Administrators (Resource Management) CE"
			
			  - "14.2 Physical Server Resources"
			
			  - "15.1.2.1 Creating a Physical L-Server Template"		

2	Improvement of virtual L-Servers	Supports functions for changing the IP addresses and connection destination networks of NICs of deployed virtual L-Servers.	- "Design Guide CE"
			
			  - "2.2.7.1 Timing of Automatic Network Settings"
			
			 - "User's Guide for Infrastructure Administrators (Resource Management) CE"
			
			  - "Chapter 17 L-Server Operations"
			
			  - "17.2.5 Modifying Network Resource Settings"
			
			 - "Reference Guide (Command/ XML) CE"
			
			  - "3.6 rcxadm lserver"
			
			  - 15.3.2 Definition Information for Virtual L-Servers (XML)
				-	Yes

3	Improved L-Platform function	The L-Platform function now supports the following operations:
		
		  - Increasing data disk capacity
		
		  - Registering templates which contain no defined servers or segments
		
		  - Attaching disks to a physical server that is operating and changing the server name
			- "Messages"
			
			  - "15.1 Messages PAPI00000 to PAPI06002"
			
			 - "Setup Guide CE"
			
			  - "9.5.2 Setting Form"
			
			 - "User's Guide for Infrastructure Administrators CE"
			
			  - "8.4.4.2 Reconfiguration Page"
			
			 - "User's Guide for Tenant Administrators CE"
			
			  - "7.4.4.2 Reconfiguration Page"
			
			  - "8.3.18 L-Platform Reconfiguration"
			
			  - "8.3.20.4 Edit a Segment"
				-	Yes

No.	Function	Content	Reference Location	VE	CE
			- "8.3.20.7 Edit a Disk (for a Virtual Server)"		
			- "8.3.20.8 Edit a Disk (for a Physical Server)"		
			- "User's Guide for Tenant Users CE"		
			- "5.3.16 L-Platform Reconfiguration"		
			- "5.3.18.4 Edit a Segment"		
			- "5.3.18.7 Edit a Disk (for a Virtual Server)"		
			- "5.3.18.8 Edit a Disk (for a Physical Server)"		
			- "Reference Guide (Command/ XML) CE"		
			- "1.2 Overview of Operation Management Commands"		
			- "14.2.1 CreateLPlatform (Creates an L-Platform)"		
			- "14.3.3 ChangeDiskSize (Increases Data Disk Capacity)"		
			- "15.20.4.2 File Information Details"		
			- "Reference Guide (API) CE"		
			- "1.7.1 Configuration of L-Platform APIs"		
			- "2.2.1 CreateLPlatform (Creates an L-Platform)"		
			- "2.3.3 ChangeDiskSize (Increases Data Disk Capacity)"		

1.1.7 Overview of Additional Functions in V3.2.0 (T011583LP-08/ T011582WP-07)

This section explains the additional functions added in V3.2.0 (T011583LP-08/T011582WP-07).

In Cloud Edition, as well as the modifications of T011583LP-08/T011582WP-07, the additional functions of T011496LP-07/ T011497WP-08 are also included.

Table 1.7 Overview of Additional Functions in V3.2.0 (T011583LP-08/T011582WP-07)

No.	Function	Content	Reference Location	VE	CE
1	Support for Oracle VM Server for x86 v3.3	Oracle VM Server for x86 v3.3 is now supported.	- "Overview"	Yes	Yes
			- "6.1.2.1 Required Basic Software"		
			- "6.1.2.4 Required Software"		

No.	Function	Content	Reference Location	VE	CE

			- "Design Guide CE"
			
			  - "Appendix A Port List"
			
			- "Setup Guide CE"
			
			  - "8.10.1 Creating Definition Files"
			
			  - "8.10.10 Advisory Notes for OVM for x86 3.x Usage"
			
			  - "8.10.12 Customization Function of Guest OS"		

2	Red Hat(R) Enterprise Linux(R) 6.8 Support	The following OSs are supported as managed servers.
		
		- Red Hat(R) Enterprise Linux(R) 6.8 (for x86)
		
		- Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64)
		
		- Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64) Virtual Machine Function
			- "Overview"
			
			  - "6.1.1.1 Required Basic Software"
			
			  - "6.1.2.1 Required Basic Software"
				Yes	Yes

3	Hardware Support	Supports the following models of hardware:
		
		- PRIMERGY RX2540 M2
			- "Release Notes"
			
			  - Item 7 in "3.1 Restrictions Common to All Editions"
			
			  - Items 27 in "3.3 Restrictions in Cloud Edition"
			
			- "Overview"
			
			  - "6.2.1 All Editions"
			
			- "User's Guide VE"
			
			  - "17.6 Network Parameter Auto-Configuration for Cloning Images"
			
			- "Design Guide CE"
			
			  - "9.4.1.3 Network Configuration for Rack Mount or Tower Servers (Physical/ Virtual L-Servers)"
				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.

V3.2.0 (T011583LP-08/T011582WP-06)

In this chapter, "V3.2.0 (T011583LP-08/T011582WP-06)" indicates the following state:

- Patch T011583LP-08 [Linux Manager] for managers has been applied to V3.2.0

- Patch T011582WP-06 [Windows Manager] for managers has been applied to V3.2.0

For Cloud Edition, this version indicates the state in which one of the following patches has been applied in addition to the above patch.

- Patch T011494LP-07 [Linux Manager] for managers has been applied to V3.2.0

- Patch T011495WP-07 [Windows Manager] for managers has been applied to V3.2.0

V3.2.0 (T011583LP-04/T011582WP-04)

In this chapter, "V3.2.0(T011583LP-04/T011582WP-04)" indicates the following state:

- Patch T011583LP-04 [Linux Manager] for managers has been applied to V3.2.0

- Patch T011582WP-04 [Windows Manager] for managers has been applied to V3.2.0

V3.2.0 (T011583LP-03/T011582WP-03)

In this chapter, "V3.2.0(T011583LP-03/T011582WP-03)" indicates the following state:

- Patch T011583LP-03 [Linux Manager] for managers has been applied to V3.2.0

- Patch T011582WP-03 [Windows Manager] for managers has been applied to V3.2.0

V3.2.0 (T011583LP-02/T011582WP-02)

In this chapter, "V3.2.0(T011583LP-02/T011582WP-02)" indicates the following state:

- Patch T011583LP-02 [Linux Manager] for managers has been applied to V3.2.0

- Patch T011582WP-02 [Windows Manager] for managers has been applied to V3.2.0

V3.2.0 (T011583LP-01/T011582WP-01)

In this chapter, "V3.2.0(T011583LP-01/T011582WP-01)" indicates the following state:

- Patch T011583LP-01 [Linux Manager] for managers has been applied to V3.2.0

- Patch T011582WP-01 [Windows Manager] for managers has been applied to V3.2.0

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

For Cloud Edition, this version indicates the state in which one of the following patches has been applied in addition to the above patch.

- Patch T009384LP-05 [Linux Manager] for managers has been applied to V3.1.2

- Patch T009383WP-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

For Cloud Edition, this version indicates the state in which one of the following patches has been applied in addition to the above patch.

- Patch T009384LP-03 [Linux Manager] for managers has been applied to V3.1.2

- Patch T009383WP-04 [Windows Manager] for managers has been applied to V3.1.2

V3.1.2 (T009379LP-02/T009378WP-02)

This chapter defines "V3.1.2 (T009379LP-02/T009378WP-02)" as described below.

- Patch T009379LP-02 [Linux Manager] for managers has been applied to V3.1.2

- Patch T009378WP-02 [Windows Manager] for managers has been applied to V3.1.2

For Cloud Edition, this version indicates the state in which one of the following patches has been applied in addition to the above patch.

- Patch T009384LP-02 [Linux Manager] for managers has been applied to V3.1.2

- Patch T009383WP-02 [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

For Cloud Edition, this version indicates the state in which one of the following patches has been applied in addition to the above patch.

- Patch T007687LP-03 [Linux Manager] for managers has been applied to V3.1.1

- Patch T007687LP-03 [Linux Manager] for managers has been applied to V3.1.1A

- Patch T007688WP-03 [Windows Manager] for managers has been applied to V3.1.1

- Patch T007688WP-03 [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

For Cloud Edition, this version indicates the state in which one of the following patches has been applied in addition to the above patch.

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

This chapter defines "V3.0 (T006521LP-01/T006268WP-01)" as described below.

  - 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 (T006521LP-01/ T006268WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664LP-05/ T007676WP-07)	V3.1.2	V3.1.2 (T009379LP-02/ T009378WP-02)	V3.1.2 (T009379LP-03/ T009378WP-04)	V3.1.2 (T009379LP-04/ T009378WP-05)	V3.1.2 (T009379LP-05/ T009378WP-06)	V3.2.0	V3.2.0 (T011583LP-01/ T011582WP-01)	V3.2.0 (T011583LP-02/ T011582WP-02)	V3.2.0 (T011583LP-03/ T011582WP-03)	V3.2.0 (T011583LP-08/ T011582WP-06)
Display of the Task Field in the Server List Window	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XML Definition for Network Configuration Information	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
"LAN Switch" Used during Operations Using the Network Device Tree	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	
LAN Switch Discovery Function	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	

Item	Version Before Migration																
	V2.3	V3.0.0	V3.0.0 (T006521LP-01/ T006268WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664LP-05/ T007676WP-07)	V3.1.2	V3.1.2 (T009379LP-02/ T009378WP-02)	V3.1.2 (T009379LP-03/ T009378WP-04)	V3.1.2 (T009379LP-04/ T009378WP-05)	V3.1.2 (T009379LP-05/ T009378WP-06)	V3.2.0	V3.2.0 (T011583LP-01/ T011582WP-01)	V3.2.0 (T011583LP-02/ T011582WP-02)	V3.2.0 (T011583LP-03/ T011582WP-03)	V3.2.0 (T011583LP-08/ T011582WP-06)
Increasing Memory Usage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	
"LAN Switch" Used during Operations Using the Network Device Tree	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	
Required Software	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	
Information about the Default Data Disk Name during Application to Use an L-Platform	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Removal of Setup and Unsetup of the Manager	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Modification of the Upgrade Installation Window [Windows Manager]	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Modification of the Dashboard Customization Method	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Modification of the Methods of Starting, Stopping, and	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	

Item	Version Before Migration																
	V2.3	V3.0.0	V3.0.0 (T006521LP-01/ T006268 WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664LP-05/ T007676WP-07)	V3.1.2	V3.1.2 (T009379LP-02/ T009378 WP-02)	V3.1.2 (T009379LP-03/ T009378 WP-04)	V3.1.2 (T009379LP-04/ T009378 WP-05)	V3.1.2 (T009379LP-05/ T009378 WP-06)	V3.2.0	V3.2.0 (T011583LP-01/ T011582 WP-01)	V3.2.0 (T011583LP-02/ T011582 WP-02)	V3.2.0 (T011583LP-03/ T011582 WP-03)	V3.2.0 (T011583LP-08/ T011582 WP-06)
Confirming the Agent (Cloud Edition Dashboard Function)																	
Messages Output when an Error Occurred during an Active Directory Query for VDI Coordination	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Route Search of the Network Viewer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
The Window during Route Searches Using the Network Viewer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
"Only error and the warning links are displayed." of the Network Viewer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
The Control Box of the Network Viewer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Changes in Paths	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Changes to Port Numbers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	

Item	V2.3	V3.0.0	V3.0.0 (T006521LP-01/ T006268WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664LP-05/ T007676WP-07)	V3.1.2	V3.1.2 (T009379LP-02/ T009378WP-02)	V3.1.2 (T009379LP-03/ T009378WP-04)	V3.1.2 (T009379LP-04/ T009378WP-05)	V3.1.2 (T009379LP-05/ T009378WP-06)	V3.2.0	V3.2.0 (T011583LP-01/ T011582WP-01)	V3.2.0 (T011583LP-02/ T011582WP-02)	V3.2.0 (T011583LP-03/ T011582WP-03)	V3.2.0 (T011583LP-08/ T011582WP-06)
Changes to Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Time Taken to Start and Stop the Manager	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
Regarding Memory Capacity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	
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	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	

Item	Version Before Migration																
	V2.3	V3.0.0	V3.0.0 (T006521 LP-01/ T006268 WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664 LP-05/ T007676 WP-07)	V3.1.2	V3.1.2 (T009379 LP-02/ T009378 WP-02)	V3.1.2 (T009379 LP-03/ T009378 WP-04)	V3.1.2 (T009379 LP-04/ T009378 WP-05)	V3.1.2 (T009379 LP-05/ T009378 WP-06)	V3.2.0	V3.2.0 (T011583 LP-01/ T011582 WP-01)	V3.2.0 (T011583 LP-02/ T011582 WP-02)	V3.2.0 (T011583 LP-03/ T011582 WP-03)	V3.2.0 (T011583 LP-08/ T011582 WP-06)
the Overcommit Function are Disabled																	
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	-	-	-	-	-	-	-	-	-	
Registration of Cloning Images in an Image Pool or Collection of Cloning	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	

Item	V2.3	V3.0.0	V3.0.0 (T006521LP-01/ T006268WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664LP-05/ T007676WP-07)	V3.1.2	V3.1.2 (T009379LP-02/ T009378WP-02)	V3.1.2 (T009379LP-03/ T009378WP-04)	V3.1.2 (T009379LP-04/ T009378WP-05)	V3.1.2 (T009379LP-05/ T009378WP-06)	V3.2.0	V3.2.0 (T011583LP-01/ T011582WP-01)	V3.2.0 (T011583LP-02/ T011582WP-02)	V3.2.0 (T011583LP-03/ T011582WP-03)	V3.2.0 (T011583LP-08/ T011582WP-06)
									Version Before Migration								
Images from L-Servers																	
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	-	-	-	-	-	-	-	-	-	-	

Item	Version Before Migration																
	V2.3	V3.0.0	V3.0.0 (T006521 LP-01/ T006268 WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664 LP-05/ T007676 WP-07)	V3.1.2	V3.1.2 (T009379 LP-02/ T009378 WP-02)	V3.1.2 (T009379 LP-03/ T009378 WP-04)	V3.1.2 (T009379 LP-04/ T009378 WP-05)	V3.1.2 (T009379 LP-05/ T009378 WP-06)	V3.2.0	V3.2.0 (T011583 LP-01/ T011582 WP-01)	V3.2.0 (T011583 LP-02/ T011582 WP-02)	V3.2.0 (T011583 LP-03/ T011582 WP-03)	V3.2.0 (T011583 LP-08/ T011582 WP-06)
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	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	

Item	Version Before Migration																
	V2.3	V3.0.0	V3.0.0 (T006521LP-01/ T006268WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664LP-05/ T007676WP-07)	V3.1.2	V3.1.2 (T009379LP-02/ T009378WP-02)	V3.1.2 (T009379LP-03/ T009378WP-04)	V3.1.2 (T009379LP-04/ T009378WP-05)	V3.1.2 (T009379LP-05/ T009378WP-06)	V3.2.0	V3.2.0 (T011583LP-01/ T011582WP-01)	V3.2.0 (T011583LP-02/ T011582WP-02)	V3.2.0 (T011583LP-03/ T011582WP-03)	V3.2.0 (T011583LP-08/ T011582WP-06)
Pools if their Resources are not Registered in the L-Platform Template																	
About Server Names when an L-Platform is Deployed Using the L-Platform API "CreateLPlatform"	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	

Item	V2.3	V3.0.0	V3.0.0 (T006521 LP-01/ T006268 WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664 LP-05/ T007676 WP-07)	V3.1.2	V3.1.2 (T009379 LP-02/ T009378 WP-02)	V3.1.2 (T009379 LP-03/ T009378 WP-04)	V3.1.2 (T009379 LP-04/ T009378 WP-05)	V3.1.2 (T009379 LP-05/ T009378 WP-06)	V3.2.0	V3.2.0 (T011583 LP-01/ T011582 WP-01)	V3.2.0 (T011583 LP-02/ T011582 WP-02)	V3.2.0 (T011583 LP-03/ T011582 WP-03)	V3.2.0 (T011583 LP-08/ T011582 WP-06)
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	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	

Item	Version Before Migration																
	V2.3	V3.0.0	V3.0.0 (T006521LP-01/T006268WP-01)	V3.1.0	V3.1.0A	V3.1.1/V3.1.1A	V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)	V3.1.2	V3.1.2 (T009379LP-02/T009378WP-02)	V3.1.2 (T009379LP-03/T009378WP-04)	V3.1.2 (T009379LP-04/T009378WP-05)	V3.1.2 (T009379LP-05/T009378WP-06)	V3.2.0	V3.2.0 (T011583LP-01/T011582WP-01)	V3.2.0 (T011583LP-02/T011582WP-02)	V3.2.0 (T011583LP-03/T011582WP-03)	V3.2.0 (T011583LP-08/T011582WP-06)
(System Conditions)																	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
XML Format of NIC Definitions	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	

Item	Version Before Migration																
	V2.3	V3.0.0	V3.0.0 (T006521 LP-01/ T006268 WP-01)	V3.1.0	V3.1.0A	V3.1.1/ V3.1.1A	V3.1.1/ V3.1.1A (T007664 LP-05/ T007676 WP-07)	V3.1.2	V3.1.2 (T009379 LP-02/ T009378 WP-02)	V3.1.2 (T009379 LP-03/ T009378 WP-04)	V3.1.2 (T009379 LP-04/ T009378 WP-05)	V3.1.2 (T009379 LP-05/ T009378 WP-06)	V3.2.0	V3.2.0 (T011583 LP-01/ T011582 WP-01)	V3.2.0 (T011583 LP-02/ T011582 WP-02)	V3.2.0 (T011583 LP-03/ T011582 WP-03)	V3.2.0 (T011583 LP-08/ T011582 WP-06)
for Virtual L-Servers																	
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/FJSVrcvmr/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:

Item_Name=*Values*

Definition File Items

Table 2.2 List of Items

Item Name	Description

product_report	When obtaining the operation results for each resource (including command executions), specify whether the information returned is to be backward compatible or not.
	
	- true
	  New format
	
	- false
	  Conventional format

Item Name	Description
	To configure the backward compatible mode, specify false.
	When omitted, true is configured and the information is returned in the new format.
	When an invalid value is specified, the information is returned in the new format.
product_report_for_cli	Specify whether to make command error output backward compatible.
	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.
	- true 　New format
	- false 　Conventional format
	To exclude the information on related products from command error output, specify false.
	When omitted, true is configured and the error is output in the new format.
	When an invalid value is specified, the error is output in the new format.

2.1.2 Information about Incompatibility between V3.2.0 (T011583LP-04/ T011582WP-04) and V3.2.0 (T011583LP-03/T011582WP-03)

2.1.2.1 XML Definition for Network Configuration Information

Details of Modification

The definition format of the monitoring method in the XML definition for network configuration information has been changed.

- V3.2.0 (T011583LP-03/T011582WP-03)

```
<Monitoring method="Monitoring method">
...
</Monitoring>
```

Element Name	Description	Acceptable Value or Example
Monitoring method (Monitoring method)	Monitoring method	Specify the monitoring method for network devices. Specify one of the following values: 　- 0: Do not perform monitoring 　- 1: SNMP monitoring 　- 2: Ping monitoring 　- 3: Ping and SNMP monitoring When omitted, "1" is specified.

- V3.2.0 (T011583LP-04/T011582WP-04)

```
<Monitoring>
<Methods>
<Method>Monitoring method</Method>
</Methods>
```

```
...
</Monitoring>
```

Element Name	Description	Acceptable Value or Example

Monitoring method information (Methods)	A set of information about the monitoring method	Specify one or more Method elements to specify the monitoring method.
		
		When omitted, one of the following values is specified:
		
		- NETCONF
		
		  For VCS
		
		- SNMP
		
		  For anything other than VCS

Monitoring method (Method)	Monitoring method	Specify the monitoring method for network devices.
		
		Specify one of the following values:
		
		- ping
		
		  For ping monitoring
		
		- SNMP
		
		  For SNMP monitoring
		  When *Fabric type*" is "VCS", this value cannot be specified.
		
		- NETCONF
		
		  This value can only be specified when *Fabric type*" is "VCS".
		  In addition, "netconf" must be specified for *protocol* (LoginInfo protocol).
		
		When omitted, network device monitoring is set to "Do not perform monitoring".
		
		To set multiple monitoring methods, specify multiple entries of this element.

Corrective Action

Import of Network Configuration Information

No action is required.

Import is still possible using the previous format of *Monitoring method* (Monitoring method).
When both the *Monitoring method* before change (Monitoring method) and the *Monitoring method information* (Methods) after change are specified, the value specified for *Monitoring method information* (Methods) is regarded as a valid value.

Export of Network Configuration Information

When importing network configuration information that was exported using the format after change into the manager in an environment existing since before occurrence of this incompatibility, modify the definition for monitoring method, from the format using *Monitoring method information* (Methods) to the format using *Monitoring method* (Monitoring method) in the network configuration information before importing it.

2.1.3 Information about Incompatibility between V3.2.0 (T011583LP-01/ T011582WP-01) and V3.2.0

This section explains information about incompatibility between V3.2.0 (T011583LP-01/T011582WP-01) and V3.2.0.

2.1.3.1 Required Software

Details of Modification

Microsoft Visual C++ 2008 Redistributable Package (x86) has been added to the required software of the Windows manager.

2.1.4 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).

2.1.4.1 Network Map and VLAN Trees

Details of Modification

The network map and VLAN tree cannot be used.

Corrective Action

Use NetworkViewer.

2.1.5 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.

2.1.5.1 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]

2.1.6 Information about Incompatibility between V3.0.0 and V2.3

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

2.1.6.1 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.

2.1.6.2 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 V3.2.0 (T011583LP-03/ T011582WP-03) and V3.2.0 (T011583LP-02/T011582WP-02)

This section explains information about incompatibility between V3.2.0 (T011583LP-03/T011582WP-03) and V3.2.0 (T011583LP-02/ T011582WP-02).

2.2.1.1 "LAN Switch" Used during Operations Using the Network Device Tree

Details of Modification

When enabling expansion of the support range of network devices, the term, "LAN switch", displayed in the ROR console network device tree during operations is replaced with the term, "Network device".

When the settings above are recovered, the term is returned to "LAN switch".

Corrective Action

No action is required.

Information

- For details on the procedure to enable expansion of the support range of network devices, refer to "7.5.1 Enabling the Network Device Management Function" in the "User's Guide VE".

- For details on the procedure to recover expansion of the support range of network devices, refer to "7.5.4 Disabling the Network Device Management Function" in the "User's Guide VE".

2.2.1.2 LAN Switch Discovery Function

Details of Modification

When enabling expansion of the support range of network devices, and creating network devices using the network configuration information, the LAN switch discovery function cannot be used.

Corrective Action

Delete LAN switches registered using the LAN switch discovery function from the network device tree.

Information

- For details on the procedure to enable expansion of the support range of network devices, refer to "7.5.1 Enabling the Network Device Management Function" in the "User's Guide VE".

- For details on the network configuration information, refer to "8.1 Network Configuration Information" in the "Reference Guide (Command) VE".

- For details on LAN switch discovery, refer to "7.11 Registering LAN Switches" in the "User's Guide VE".

2.2.1.3 Increasing Memory Usage

Details of Modification

When enabling expansion of the support range of network devices, additional 600 MB is required.

Corrective Action

When the memory is insufficient, add memory.

Information

For details on the procedure to enable expansion of the support range of network devices, refer to "7.5.1 Enabling the Network Device Management Function" in the "User's Guide VE".

2.2.2 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.

2.2.2.1 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.

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.

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\CloudEdtion

[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

Setting Item

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>".

Note

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\CloudEdtion

       [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

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" (lserverStatus)

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/FJSVrcvmr/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" (lserverStatus)

This section explains the server status of L-Platform API "GetLPlatformConfiguration".
The prorgam has been corrected so that the server status of L-Platform API "GetLPlatformConfiguration" (lserverStatus) is no longer returned.

Details of Modification

In the L-Platform API "GetLPlatformConfiguration" specifications, the server status (lserverStatus) 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 V3.2.0 (T011583LP-08/ T011582WP-06) and V3.2.0 (T011583LP-04/T011582WP-04)

2.3.2.1 Display of the Task Field in the Server List Window

Details of Modification

When performing collection of cloning images using the [L-Platform] tab in the ROR console, "cloning", displayed in the task field of the server list window, is deleted after the collection is completed.

Corrective Action

No action is required.

2.3.3 Information about Incompatibility between V3.2.0 (T011583LP-04/ T011582WP-04) and V3.2.0 (T011583LP-02/T011582WP-02)

2.3.3.1 "LAN Switch" Used during Operations Using the Network Device Tree

Details of Modification

The term "LAN switch", displayed in the ROR console network device tree during operations, is replaced with the term "Network device".

Corrective Action

No action is required.

2.3.4 Information about Incompatibility between V3.2.0 and V3.1.2 (T009379LP-05/T009378WP-06)

2.3.4.1 Information about the Default Data Disk Name during Application to Use an L-Platform

Details of Modification

The default value of the data disk name during application to use an L-Platform has been changed.

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

When making an application for L-Platform usage, the default values for disk names of data disks defined in L-Platform templates are automatically set as "DISK+serial number".
The serial number is a sequential number, starting from 0.

- For V3.2.0

The default values for disk names when making an application for L-Platform usage are the values (*) set in the L-Platform template.

* Note: In L-Platform templates, the setting is "DISK+serial number". The serial number is a sequential number, starting from 1.

Effect

The default value of the data disk name during application to use an L-Platform is changed.

Corrective Action

No action is required.

2.3.4.2 Removal of Setup and Unsetup of the Manager

Details of Modification

Setup and unsetup of the manager has been removed.

Setup of the manager is performed during installation. In addition, unsetup of the manager is performed during uninstallation.

Corrective Action

When there are descriptions of setup and unsetup in the setup guide of a system that has been created by a customer, it is necessary to revise the setup guide.

2.3.4.3 Modification of the Upgrade Installation Window [Windows Manager]

Details of Modification

The window displayed during upgrade installation from Cloud Edition manager has been changed to an interactive style that uses the command prompt.

Corrective Action

To perform upgrade installation, follow the instructions displayed by the installer. Do not exit the command prompt until installation is complete.

When there are descriptions of upgrade installation in the setup guide of a system that has been created by a customer, it is necessary to revise the setup guide.

2.3.4.4 Modification of the Dashboard Customization Method

Details of Modification

Installation of the dashboard development environment used for dashboard customization is no longer necessary. Dashboard customization is now available using the operation management console of Interstage Business Process Manager Analytics accessible via the network.

Effect

Use of the dashboard development environment is no longer possible.

Corrective Action

No action is required.

2.3.4.5 Modification of the Methods of Starting, Stopping, and Confirming the Agent (Cloud Edition Dashboard Function)

Details of Modification

The methods of starting, stopping, and confirming the agent (Cloud Edition Dashboard Function) have changed.

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

    - Windows

        - Starting the Agent (Cloud Edition Dashboard Function)

          Open [Services] from [Administrative Tools] on the Control Panel and then start the "Systemwalker SQC DCM" service.

        - Stopping the Agent (Cloud Edition Dashboard Function)

          Open [Services] from [Administrative Tools] on the Control Panel and then stop the "Systemwalker SQC DCM" service.

        - Confirming the Agent (Cloud Edition Dashboard Function)

          Open [Services] from [Administrative Tools] on the Control Panel and then check the status of the "Systemwalker SQC DCM" service.

    - Linux

        - Starting the Agent (Cloud Edition Dashboard Function)

          ```
          # /etc/rc2.d/S99ssqcdcm start <RETURN>
          ```

        - Stopping the Agent (Cloud Edition Dashboard Function)

          ```
          # /etc/rc2.d/K00ssqcdcm stop <RETURN>
          ```

        - Confirming the Agent (Cloud Edition Dashboard Function)

          ```
          # /etc/rc2.d/K00ssqcdcm <RETURN>
          ```

- For V3.2.0

    - Windows

        - Starting the Agent (Cloud Edition Dashboard Function)

          Open [Services] from [Administrative Tools] on the Control Panel and then start the "ServerView Resource Orchestrator SQC DCM" service.

        - Stopping the Agent (Cloud Edition Dashboard Function)

          Open [Services] from [Administrative Tools] on the Control Panel and then stop the "ServerView Resource Orchestrator SQC DCM" service.

        - Confirming the Agent (Cloud Edition Dashboard Function)

          Open [Services] from [Administrative Tools] on the Control Panel and then check the status of the "ServerView Resource Orchestrator SQC DCM" service.

- Linux

    - Starting the Agent (Cloud Edition Dashboard Function)

 # /etc/rc2.d/S99FJSVctdsb-sqcdcm start <RETURN>

    - Stopping the Agent (Cloud Edition Dashboard Function)

 # /etc/rc2.d/K00FJSVctdsb-sqcdcm stop <RETURN>

    - Confirming the Agent (Cloud Edition Dashboard Function)

 # /etc/rc2.d/ K00FJSVctdsb-sqcdcm <RETURN>

Corrective Action

No action is required.

2.3.4.6 Messages Output when an Error Occurred during an Active Directory Query for VDI Coordination

Details of Modification

The message contents and error numbers output when the following errors have occurred during VDI coordination have changed.

- When connection to the Active Directory failed

- When a user not existing in the Active Directory is specified as the VDI user

- When a group name not existing in the Active Directory is specified using the group qualification definition file

- When the NetBIOS domain of the VDI user is not valid

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

    When the above error conditions are met, the following messages and error numbers are output.

    - The dialog message displayed when subscribing to an L-Platform

    The specified VDI user is invalid.

    Check the VDI user setting.

    - Error message

    FJSVrcx:ERROR:67390:creating VM guest failed. detail=(validate_user:failed to query Active Directory,vmerrno=861,ip={*IP address*})

- For V3.2.0

    The following error message and error number is output for each cause of detected Active Directory errors.

    - When connection to the Active Directory failed

        - The dialog message displayed when subscribing to an L-Platform

        When registering the deployment, an error occurred.

        Tenant ID: [Tenant ID]

        Error code: VSYS10096

        Please contact your system administrator.

- Error message

    FJSVrcx:ERROR:67390:creating VM guest failed. detail=(validate_user:failed to query Active Directory,vmerrno=861,ip={*IP address*})

- When a user not existing in the Active Directory is specified as the VDI user

    - The dialog message displayed when subscribing to an L-Platform

        One or more specified VDI user name is not valid.

        Please check VDI user names.

    - Error message

        FJSVrcx:ERROR:67390:creating VM guest failed. detail=(validate_user:invalid user name,vmerrno=873,ip={*IP address*})

- When a group name not existing in the Active Directory is specified using the group qualification definition file

    - The dialog message displayed when subscribing to an L-Platform

        When registering the deployment, an error occurred.

        Tenant ID: [Tenant ID]

        Error code: VSYS10096

        Please contact your system administrator.

    - Error message

        FJSVrcx:ERROR:67390:creating VM guest failed. detail=(validate_user:invalid group name,vmerrno=874,ip={*IP address*})

- When the NetBIOS domain of the VDI user is not valid

    - The dialog message displayed when subscribing to an L-Platform

        The NetBIOS Domain of one or more VDI users is not valid.

        Please check the NetBIOS Domain.

    - Error message

        FJSVrcx:ERROR:67390:creating VM guest failed. detail=(validate_user:invalid domain name,vmerrno=875,ip={*IP address*})

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.

2.3.4.7 Route Search of the Network Viewer

Details of Modification

The display location of the Route Search box in the Utility Panel has been changed.

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

    The Route Search box is displayed in the route information box in the Utility Panel.

- For V3.2.0

    The Route Search box is displayed in the Filter box when the [Custom View] tab of the Utility Panel is selected.

    It is displayed only when "Route" is checked in the filter setting window.

Corrective Action

No action is required.

2.3.4.8 The Window during Route Searches Using the Network Viewer

Details of Modification

The window displayed during route searches has been changed.

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

During route search, "Route filter..." is displayed in the upper part of the network view.

In addition, the [Cancel] button is also displayed in the upper part of the network view. Clicking the [Cancel] button cancels the route search settings.

While the route search is being performed, the [Clear] button in the route search box is disabled and cannot be clicked.

- For V3.2.0

During route searches, neither "Route filter..." nor the [Cancel] button are displayed in the upper part of the network view.

Route search settings can be canceled by clicking the [Clear] button in the route search box or closing the route search box.

Corrective Action

No action is required.

2.3.4.9 "Only error and the warning links are displayed." of the Network Viewer

Details of Modification

The "Only error and the warning links are displayed." checkbox has been deleted.

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

The "Only error and the warning links are displayed." checkbox is displayed on the toolbar.

- For V3.2.0

The "Only error and the warning links are displayed." checkbox is not displayed on the toolbar.

The similar display is possible by selecting "error/warning" for the filter condition when "Link Status" (*1) is selected in the Filter box.

*1: This is displayed in the filter box when the [Custom View] tab is selected in the Utility Panel. This is displayed only when "Link Status" is checked when setting the filter items.

Corrective Action

No action is required.

2.3.4.10 The Control Box of the Network Viewer

Details of Modification

Functions operable from the control box and their display locations have been changed.

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

The control box is displayed in the Utility Panel. In the control box, the following items are displayed:

- The magnification slider

- The [Display initialization] button

- [Move] Button

- For V3.2.0

  The control box is no longer available. The functions that were displayed in the control box are now in the following locations:

    - The magnification slider and the [Display initialization] button

    They are now located at the bottom right of the network view window.

    - [Move] Button

    It has been deleted.

Corrective Action

No action is required.

2.3.4.11 Changes in Paths

Details of Modification

The following paths have been changed.

Table 2.3 Changes in Paths [Windows Manager]

V3.2.0	V3.1.2 (T009379LP-05/T009378WP-06)
`Installation_folder\CMDB`	`Installation_folder\SWRBAM\CMDB`
`Installation_folder\IAPS\ahs\servers\RCXCT-ext`	`Installation_folder\IAPS\F3FMihs\servers\FJapache`
`Installation_folder\IJEE\nodes\localhost-domain1\CTSV_IBPMMServer`	`Installation_folder\J2EE\ijserver\IBPMMServer\apps\ibpmm.war`
`Installation_folder\IJEE\domain1\applications\ibpmm`	

Table 2.4 Changes in Paths [Linux Manager]

V3.2.0	V3.1.2 (T009379LP-05/T009378WP-06)
`/opt/FJSVctdsb-cmdb/CMDB/FJSVcmdbm`	`/opt/FJSVcmdbm`
`/var/opt/FJSVCctmg-isas/ahs/servers/RCXCT-ext`	`/var/opt/FJSVihs/servers/FJapache`
`/opt/FJSVctmg-ibpm`	`/opt/FJSVibpm`
`/var/opt/FJSVctmg-isas/fjje6/nodes/localhost-domain1/CTSV_IBPMMServer/applications/ibpmm`	`/var/opt/FJSVj2ee/deployment/ijserver/IBPMMServer/apps/ibpmm.war`
`/var/opt/FJSVctmg-isas/fjje6/domains/domain1/applications/ibpmm`	

Corrective Action

Commands and file operations that use the paths to be changed should only be performed after the paths have been changed.

2.3.4.12 Changes to Port Numbers

Details of Modification

Due to changes in port numbers, the following ports are now also used.

- 2511

- 2512

- 13200

- 13201

- 41320

- 23851 - 23878

The following port number is now used for communication with the admin client when performing a fresh installation of Resource Orchestrator.

- 3502

The following port number is still used when performing an upgrade installation of Resource Orchestrator. A strengthened check is used to ensure that it is not allocated for use by another service in the "services" file.

- 80

Corrective Action

When performing a fresh installation, change the settings of your firewall to enable port number 3502 to be used for communication with the admin client.
Before installing Resource Orchestrator, check the other used port numbers using the configuration requirements check tool, and change any other port numbers if necessary.

When performing an upgrade installation, check that port number 80 is not listed in the "services" file. If it is listed, perform the following operation before starting the upgrade installation.

- Disable any services in the "services" file that use port 80.

2.3.4.13 Changes to Services

Details of Modification

To enable operation of other products that use the same functions of services on the same server, the following service names have been changed.

Table 2.5 Changes to Services [Windows Manager]

V3.2.0	V3.1.2 (T009379LP-05/T009378WP-06)
ServerView Resource Orchestrator Service Catalog Manager DB Service (IBPMF)	Systemwalker Runbook Automation DB Service
ServerView Resource Orchestrator BPM Analytics eRule Engine	Interstage BPM Analytics eRule Engine
ServerView Resource Orchestrator SQC DCM	Systemwalker SQC DCM
SVRORHTTPServer(RCXCF-API)	Interstage HTTP Server(RCXCF-API)
SVRORHTTPServer(RCXCF-VSYS)	Interstage HTTP Server(RCXCF-VSYS)
SVRORHTTPServer(RCXCT-acnt)	Interstage HTTP Server(RCXCT-acnt)
SVRORHTTPServer(RCXCT-ext)	Interstage HTTP Server(RCXCT-ext)
SVRORHTTPServer(RCXCT-ext2)	Interstage HTTP Server(RCXCT-ext2)
SVRORHTTPServer(RCXCT-int)	Interstage HTTP Server(RCXCT-int)

Table 2.6 Changes to Services [Linux Manager]

V3.2.0	V3.1.2 (T009379LP-05/T009378WP-06)
FJSVctdsb-sqcdcm	sqcdcm

Corrective Action

No action is required.

2.3.4.14 Time Taken to Start and Stop the Manager

In order to deal with a vulnerability of the manager, in comparison with V3.1.2, the time taken to start and stop the manager is longer. It is dependent on the CPU performance of the server used for the admin server, but compared to V3.1.2 the time taken can be from 50 - 100% longer.

Corrective Action

- When performing maintenance on the manager after it has been configured, confirm the time take to start and stop the manager, and then design the time to use for maintenance operations.

- The time taken to start and stop the manager is affected by the CPU performance. Therefore, you are advised to secure CPU performance for the admin server in line with the following formula.

> The value of *CP clock rate* * *Number of sockets* * *CPU core count* is over 8 GHz

2.3.4.15 Regarding Memory Capacity

Details of Modification

Due to addition of a function in V3.2.0, the memory capacity necessary for operation of the manager has changed.

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

[Windows Manager]
6656 MB

[Linux Manager]
10,752 MB

- For V3.2.0

[Windows Manager]
12,000 MB

[Linux Manager]
16,000 MB

Corrective Action

When the OS is Windows or Linux (for Intel64), add memory.
When the OS is Linux (for x86), as the maximum physical memory that the basic software can recognize is less than 16,000 MB, configure the system using Linux (for Intel64).

- Linux (for x86) indicates the following OSs.

  - Red Hat(R) Enterprise Linux(R) 5.3 (for x86)

  - Red Hat(R) Enterprise Linux(R) 5.4 (for x86)

  - Red Hat(R) Enterprise Linux(R) 5.5 (for x86)

  - Red Hat(R) Enterprise Linux(R) 5.6 (for x86)

  - Red Hat(R) Enterprise Linux(R) 5.7 (for x86)

  - Red Hat(R) Enterprise Linux(R) 5.8 (for x86)

  - Red Hat(R) Enterprise Linux(R) 5.9 (for x86)

  - Red Hat(R) Enterprise Linux(R) 5.10 (for x86)

- Red Hat(R) Enterprise Linux(R) 5.11 (for x86)

- Red Hat(R) Enterprise Linux(R) 6.2 (for x86)

- Red Hat(R) Enterprise Linux(R) 6.3 (for x86)

- Red Hat(R) Enterprise Linux(R) 6.4 (for x86)

- Red Hat(R) Enterprise Linux(R) 6.5 (for x86)

- Linux (for Intel64) indicates the following OSs.

- Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.8 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.9 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.10 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 5.11 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)

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

2.3.5.1 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:

Key = *Value*

Definition File Items

Specify the following items:

Key	Value
vdi_number.name	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.
vdi_number.type	Specify the VDI management server type. When using VMware Horizon View, specify "vmwareview".
vdi_number.ipaddr	Specify the IP address of the VDI management server name used for control from Resource Orchestrator.
vdi_number.user	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). For details, refer to "K.1.1 VDI Coordination Function" in the "Design Guide CE".
vdi_number.password	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).
vdi_number.vmmgr	Specify the name of the VM management software registered on the VDI management server that is used in Resource Orchestrator. When there are more than one VM management software, specify the VM management software names, separated by commas (",").
vdi_number.connect_info	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 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.

The information of the VDI management server definition file 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	*vdi_number*.name	Specify in [VM management software name].
VDI management server type	*vdi_number*.type	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.

VDI Management Server Definition File		Registering VDI Management Software
Item Name	Key	
IP address of the VDI management server	*vdi_number*.ipaddr	Specify in [IP address].
Administrator user name of the VDI management server	*vdi_number*.user	Specify in [User ID].
Administrator password of the VDI management server.	*vdi_number*.password	Specify in [Password].
VM management software name	*vdi_number*.vmmgr	Specify in [VM management software list].
Connection information of the VDI management server	*vdi_number*.connect_info	Specify in [Connection information].

📮 Note

・・・

Specify the same VDI management server name as defined in the VDI management software definition file for the [VM management server 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. Login to the management server as a system administrator (with OS administrative 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>
   ```

   The process may take a few minutes to complete.
   It takes approximately two minutes to migrate the definition information of a single VDI management server. When two or more VDI management servers are the target, the time to complete this process increases by 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 the migration of the VDI management server information has been completed

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

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

   ```
   Warning: Name of the VDI management server, 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 performed starting with the VDI management server defined at the beginning of the VDI management server definition file, in order.

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
```

∙∙∙

2.3.5.2 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.

2.3.6 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-02/ T009378WP-02).

2.3.6.1 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.

2.3.6.2 Accounting Information Settings for NICs

Details of Modification

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

- **For V3.1.2 (T009379LP-02/T009378WP-02)**

  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.

2.3.6.3 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 "9.5 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 "9.5 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 "9.4 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.

2.3.6.4 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-02/T009378WP-02)**

  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.

2.3.7 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-02/T009378WP-02) and V3.1.2.

2.3.7.1 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	Content
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: - up - down - unknown
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 that 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:
	
	 - EP
	
	 - CIR
	
	 - EP(dot1ad)
	    Displayed when using the EP port for sending and receiving of the IEEE802.1ad frame.
	
	 - CIR(dot1ad)
	    Displayed when using the CIR port for sending and receiving of the IEEE802.1ad frame.
	
	 This is only displayed when an Ethernet Fabric is selected.

Columns	Content
S-TAG	The S-TAG values used by the IPCOM VA virtual interface are displayed. This is only displayed when an IPCOM VA is selected.

- For V3.1.2 (T009379LP-02/T009378WP-02)

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

Columns	Content
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: - up - down - testing - unknown - dormant - notPresent - lowerLayerDown
Speed/DuplexMode	The speed and duplex mode of the operating port are displayed.
Link Aggregation Group	When the name of the port that comprises the link aggregation is displayed as the port name, the link aggregation name is displayed. When the name of the port that 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:
	
	- EP
	
	- CIR
	
	- EP(dot1ad)
	  Displayed when using the EP port for sending and receiving of the IEEE802.1ad frame.
	
	- CIR(dot1ad)
	  Displayed when using the CIR port for sending and receiving of the IEEE802.1ad frame.
	
	This is only displayed when an Ethernet Fabric is selected.

Distribution Mode	Displays packet distribution mode for ports. One of the following is displayed: - VLAN(S-TAG) - MAC - VLAN(C-TAG) - no-distribution - VLAN(other)

Columns	Content
	This is only displayed when an IPCOM VA is selected.
VLAN ID	The VLAN ID values used for distribution to an IPCOM VA virtual interface are displayed. This is only displayed when an IPCOM VA is selected.

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".

2.3.7.2 For Modification of Messages

Details of Modification

The message output when the state of the port of the network device changed has changed.

The message output 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-02/T009378WP-02)

    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.

2.3.7.3 Modification of Execution Results in the Command that Updates Information for Network Devices

Details of Modification

Descriptions of the cases where an error occurs and the command to update information for network devices (rcxadm netdevice refresh -recreate) is terminated have been added.

- For V3.1.2

    The command to update information for network devices (rcxadm netdevice refresh -recreate) is returned normally.

- For V3.1.2 (T009379LP-02/T009378WP-02)

    When SNMP communication with target network devices is not possible, an error occurs and the command to update information for network devices (rcxadm netdevice refresh -recreate) is terminated.

Corrective Action

When an error occurs and the command to update information for network devices (rcxadm netdevice refresh -recreate) is terminated, it is necessary to remove the cause of the error.

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

2.3.8 Compatibility Issues between V3.1.2 and V3.1.1/V3.1.1A (T007664LP-05/T007676WP-07)

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

2.3.8.1 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.
```

2.3.8.2 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.

2.3.8.3 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.x, 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.

2.3.8.4 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".

2.3.8.5 [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.

2.3.8.6 Keyword search function for L-Platform templates

Details of Modification

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

- 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.

2.3.9 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.

2.3.9.1 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.

2.3.9.2 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 notifying 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.]

2.3.9.3 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.

2.3.9.4 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.

2.3.9.5 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.

2.3.9.6 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".

2.3.9.7 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.

2.3.9.8 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.

2.3.9.9 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.

2.3.9.10 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 "C.2 Manager" in "Setup Guide CE".

2.3.10 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.

2.3.10.1 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.

2.3.10.2 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.

2.3.10.3 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.

2.3.10.4 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 "C.2 Manager" in "Setup Guide CE".

2.3.10.5 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 "C.2 Manager" in the "Setup Guide CE" for information on the upgrade Installation.

2.3.10.6 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 "C.2 Manager" in the "Setup Guide CE" for information on the upgrade Installation.

2.3.10.7 For Modification of 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.

2.3.11 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.

2.3.11.1 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.

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 and 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>
```

2.3.11.2 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.

2.3.11.3 For Modification of 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 that 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.

2.3.12 Information about Incompatibility between V3.1.0 and V3.0.0

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

2.3.12.1 For Modification of 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.

2.3.12.2 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.

2.3.12.3 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.

2.3.12.4 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.

2.3.12.5 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

2.3.12.6 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] tab of the ROR console which specifies exclusion of the data disks. If this is done, image information configured only with system disks is automatically registered.

2.3.12.7 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.

2.3.13 Information about Incompatibility between V3.0 (T006521LP-01/ T006268WP-01) and V3.0

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

2.3.13.1 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.

- 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.

2.3.14 Information about Incompatibility between V3.1.0 and V2.3

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

2.3.14.1 For Modification of 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.

2.3.14.2 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>
```

2.3.14.3 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>
```

2.3.14.4 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".

2.3.14.5 Display Format of the Commands for Displaying Address Set Resources

Details of Modification

The display format of the information output by the rcxadm addrset show command and the rcxadm 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.

2.3.14.6 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.

2.3.15 Information about Incompatibility between V3.0.0 and V2.3

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

2.3.15.1 Role Names

Details of Modification

Role names have been changed as follows.

Previous Name	New Name
supervisor	(Removed)
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".

2.3.15.2 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.

2.3.15.3 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

The restrictions common to all editions are as below.

Table 3.1 Restrictions Common to All Editions

No.	Restriction	Corrective Action	Release Schedule
1	Extended Partitioning cannot be used on PRIMEQUEST 2000 series servers.	None.	Not yet determined
2	PRIMERGY RX4770 M1 cannot be used as physical servers.	None.	Next release
3	If the VIOM server profile that configures a virtual address to be allocated to the first onboard NIC, is allocated to a BX2560 M1, when server switchover or failback is performed, the second onboard NIC with no virtual address allocated cannot be used due to port blockage. This problem occurs when the VIOM version is 3.4.6.	For this reason, ensure that the VIOM server profile to be allocated to a BX2560 M1 allocates virtual addresses to all of the onboard NICs.	V3.2.0 (T011583LP-01/ T011582WP-01)
4	When using a PRIMERGY BX2560 M1 as a physical server, the UMC function cannot be used.	None.	V3.2.0 (T011583LP-01/ T011582WP-01)
5	The following models of the PRIMEQUEST 2000 series cannot be used: - PRIMEQUEST 2400 S2 Lite - PRIMEQUEST 2400 S2 - PRIMEQUEST 2400 L2 - PRIMEQUEST 2400 E2 - PRIMEQUEST 2800 L2 - PRIMEQUEST 2800 E2	None.	V3.2.0 (T011583LP-02/ T011582WP-02)
6	VLANs configured using AMPP or VMware-aware Network Automation of Brocade VDX are not displayed on the Resource Details window or NetworkViewer.	None.	V3.2.0 (T011583LP-06/ T011582WP-05)
7	The following models cannot be used for Linux manager environments. - PRIMERGY RX2530 M2 - PRIMERGY RX2540 M2 - PRIMERGY BX2560 M2 - PRIMERGY BX2580 M2 - PRIMERGY RX4770 M2	None.	Next release
8	PRIMERGY RX2530 M2 cannot be used as physical servers.	None.	V3.2.0 (T011583LP-08/ T011582WP-07)

3.2 Restrictions in Virtual Edition

Restrictions in the Virtual Edition are as indicated below.

Table 3.2 Restrictions in Virtual Edition

No.	Restriction	Corrective Action	Release Schedule
1	When using VMware vSphere 6, the VVOL datastore cannot be used.	None.	V3.2.0 (T011583LP-02/ T011582WP-02) Refer to item 2 in "1.1.3 Overview of Additional Functions in V3.2.0 (T011583LP-02/ T011582WP-02)".
2	When the following patches have been applied to V3.2.0, it is not possible to upgrade from Virtual Edition to Cloud Edition. - T011583LP-03 - T011582WP-03	None.	V3.2.0 (T011583LP-04/ T011582WP-04)

3.3 Restrictions in Cloud Edition

Restrictions in the Cloud Edition are as indicated below.

Table 3.3 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: 1. A LUN of the NetApp storage of the iSCSI connection is used as a system disk. AND, 2. The OS is Windows.	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. 1. When an L-Platform with some servers running is selected and the "Details" button is pressed in L-Platform management, AND, 2. The "Reconfiguration" button is pressed in the L-Platform details, AND,	None.	Not yet determined

No.	Restriction	Corrective Action	Release Schedule
	3. The "OFF" button for running servers is pressed on the Reconfiguration page.		
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. 1. An L-Platform with some servers stopped is selected and the "Details" button in L-Platform management is pressed. AND, 2. The "Reconfiguration" button is pressed in the L-Platform details, AND, 3. The "ON" button for the stopped servers is pressed on the "Specification Change" page.	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. 1. A tenant user has made an application to change the configuration of an L-Platform from L-Platform management. AND, 2. A tenant user has made an application to cancel an L-Platform from L-Platform management. AND, 3. A tenant user has cancelled an application to change the configuration of an L-Platform during subscription.	None.	Not yet determined
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: - Creation, deletion, and modification of L-Servers	None.	V3.2.0 (April 2015) Refer to item 5 in "1.1.1 Overview of Additional Functions in V3.2.0".
10	On the [L-Platforms] tab of the ROR console, cloning images cannot be collected from servers that 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 3.2.	None.	V3.2.0 (April 2015) Refer to item 12 in "1.1.1 Overview of

No.	Restriction	Corrective Action	Release Schedule
			Additional Functions in V3.2.0".
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.	Use Internet Explorer.	V3.2.0 (April 2015)
15	When using Firefox, the L-Servers console screen cannot be started from the Resources Tab on the ROR console.	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	PRIMERGY RX4770 M1 cannot be used as resources for physical L-servers.	None.	Next release
20	When a PRIMERGY BX2560 M1 is deployed as a physical L-Server, the UMC function cannot be used.	None.	V3.2.0 (T011583LP-01/ T011582WP-01)
21	When a physical L-Server which uses a single NIC and a BX2560 M1 as the physical server is deleted, the second onboard NIC cannot be used due to port blockage.	When creating a physical L-Server for which a BX2560 M1 is used as the physical server, set two for the number of NICs to be used.	V3.2.0 (T011583LP-01/ T011582WP-01)
22	The function for guest OS customization cannot be used in OVM for x86 environments.	None.	V3.2.0 (June 2015) Refer to item 15 in "1.1.1 Overview of Additional Functions in V3.2.0".
23	When using VMware vSphere 6, the VVOL datastore cannot be used.	Do not register the VVOL datastore in the storage pool as virtual storage.	V3.2.0 (T011583LP-02/ T011582WP-02) Refer to item 2 in "1.1.3 Overview of Additional Functions in V3.2.0 (T011583LP-02/ T011582WP-02)".

No.	Restriction	Corrective Action	Release Schedule
24	When using VMware vSphere 6, the following information of the VM pool is not correctly displayed. - The available memory of the VM pool and the VM host - The creatable number of L-Servers	Check the available memory of the VMware vSphere 6 VM host on VMware vCenter Server.	Not yet determined
25	The functions for exporting and importing VMware vSphere 6 virtual L-Servers cannot be used.	None.	V3.2.0 (T011583LP-02/ T011582WP-02) Refer to item 2 in "1.1.3 Overview of Additional Functions in V3.2.0 (T011583LP-02/ T011582WP-02)".
26	When using VMware vSphere 6, the following resources are not restored by the DR Option. - VVOL datastores - L-Servers created using VVOL datastores - Cloning images stored in VVOL datastores	None.	Not yet determined
27	When using the servers below in configurations where port expansion options or CNA cards with Universal Multi-Channel (UMC) functions are mounted, it is not possible to create physical L-Servers (including physical L-Server creation in L-Platform deployment). - PRIMERGY RX2530 M1 - PRIMERGY RX2530 M2 - PRIMERGY RX2540 M1 - PRIMERGY RX2540 M2 - PRIMERGY RX4770 M2	None.	Not yet determined

Chapter 4 Information Regarding Starting and Stopping

This chapter explains information about starting and stopping.

The time taken to start and stop the manager is 50 - 100% longer when compared to V3.1.2 or earlier versions.
For details, refer to "2.3.4.14 Time Taken to Start and Stop the Manager".