ServerView Resource Orchestrator Cloud Edition V3.0.0

Reference Guide
for Infrastructure Administrators

Windows/Linux

Preface

Purpose of This Document

This manual provides details of the commands, file formats, API, and Troubleshooting provided by ServerView Resource Orchestrator (hereafter referred to as "this product").

Intended Readers

This document is intended for users wishing to know about the commands, file formats, API, and Troubleshooting provided by this product.

Organization

This manual is composed as follows:

Notational Conventions

The notation in this manual conforms to the following conventions.

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

[Windows]	Sections related to Windows
[Linux]	Sections related to Linux

- Reference destinations are shown enclosed by quotation marks (" ").

- Window, dialog, menu, tab, and button names are indicated using bold text.

Documentation Road Map

The following manuals are provided with Resource Orchestrator. Please refer to them when necessary:

Manual Name	Abbreviated Form	Purpose
ServerView Resource Orchestrator Cloud Edition V3.0.0 Setup Guide	Setup Guide CE	**Please read this first.** Read this when you want information about the purposes and uses of basic functions, and how to install Resource Orchestrator.
ServerView Resource Orchestrator Cloud Edition V3.0.0 Installation Guide	Installation Guide CE	Read this when you want information about how to install Resource Orchestrator.
ServerView Resource Orchestrator Cloud Edition V3.0.0 Operation Guide	Operation Guide CE	Read this when you want information about how to operate systems that you have configured.
ServerView Resource Orchestrator Cloud Edition V3.0.0 User's Guide for Infrastructure Administrators (Resource Management)	User's Guide for Infrastructure Administrators (Resource Management) CE	Read this when you want information about how to operate the GUI (resource management) used by infrastructure administrators and dual-role administrators.
ServerView Resource Orchestrator Cloud Edition V3.0.0 User's Guide for Infrastructure Administrators	User's Guide for Infrastructure Administrators CE	Read this when you want information about how to operate the GUI (for operations other than resource management) used by infrastructure administrators and dual-role administrators.
ServerView Resource Orchestrator Cloud Edition V3.0.0 User's Guide for Tenant Administrators	User's Guide for Tenant Administrators CE	Read this when you want information about how to operate the GUI used by tenant administrators.
ServerView Resource Orchestrator Cloud Edition V3.0.0 User's Guide for Tenant Users	User's Guide for Tenant Users CE	Read this when you want information about how to operate the GUI used by tenant users.
ServerView Resource Orchestrator Cloud Edition V3.0.0 Reference Guide for Infrastructure Administrators (Resource Management)	Reference Guide (Resource Management) CE	Read this when you want information about commands used by infrastructure administrators and dual-role administrators to manage resources, messages output by the system, and how to perform troubleshooting.
ServerView Resource Orchestrator Cloud Edition V3.0.0 Reference Guide for Infrastructure Administrators	Reference Guide CE	Read this when you want information about commands used by infrastructure administrators and dual-role administrators for purposes other than resource management.

Manual Name	Abbreviated Form	Purpose
ServerView Resource Orchestrator Cloud Edition V3.0.0 Messages	Messages CE	Read this when you want detailed information about the corrective actions for displayed messages.

In some cases, this document may also refer to the Virtual Edition manuals shown below. Please refer to them when necessary:

Manual Name	Abbreviated Form	Purpose
ServerView Resource Orchestrator Virtual Edition V3.0.0 Setup Guide	Setup Guide VE	Read this when you want information about the purposes and uses of basic functions, and how to install Resource Orchestrator.
ServerView Resource Orchestrator Virtual Edition V3.0.0 Installation Guide	Installation Guide VE	Read this when you want information about how to install Resource Orchestrator.
ServerView Resource Orchestrator Virtual Edition V3.0.0 Operation Guide	Operation Guide VE	Read this when you want information about how to operate systems that you have configured.
ServerView Resource Orchestrator Virtual Edition V3.0.0 User's Guide	User's Guide VE	Read this when you want information about how to operate the GUI.
ServerView Resource Orchestrator Virtual Edition V3.0.0 Command Reference	Command Reference	Read this when you want information about how to use commands.
ServerView Resource Orchestrator Virtual Edition V3.0.0 Messages	Messages VE	Read this when you want detailed information about the corrective actions for displayed messages.

Abbreviations

The following abbreviations are used in this manual:

Abbreviation	Products
Windows	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) 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(R) 7 Professional Windows(R) 7 Ultimate Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate Microsoft(R) Windows(R) XP Professional operating system
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
Linux	Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.1 (for x86) Red Hat(R) Enterprise Linux(R) 5.1 (for Intel64)

Abbreviation	Products
	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) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
VMware	VMware vSphere(R) 4 VMware vSphere(R) 4.1 VMware vSphere(R) 5
RHEL5-Xen	Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Linux Virtual Machine Function
RHEL-KVM	Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Virtual Machine Function

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January 2012, 1.2 Edition	J2X1-7617-01ENZ0(02)
February 2012, 1.3 Edition	J2X1-7617-01ENZ0(03)
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Editing Record

Additions and changes	Section	Edition
The format for explaining commands has changed.	Chapter 1, Chapter 2, Chapter 3, Chapter 4	1.1 Edition
Explanations of the RHEL-KVM tags have been added.	Chapter 4, Chapter 5, Chapter 7	
Revised content in accordance with modifications made to command reference chapters.	Chapter 1, Chapter 2, Chapter 3, Chapter 4, Chapter 5	1.2 Edition
Modified coding format for the commands.	Chapter 2, Chapter 3, Chapter 4, Chapter 5	
Added 4 commands relating to Disaster Recovery. Also added log output.	1.2,5.9,5.10,5.11,5.12	
Added tags relating to batch power supply operations.	2.13,6.4.2	
The command title has been changed.	3.1	
Added 3 command relating to charge estimate compatibility.	3.2,3.4,3.5	
Added 2 commands relating to Access Authority Customize Commands.	Chapter 4	
Revised content in accordance with cfmg_deletesysdata option changes.	5.4	
The options and the usage examples of "cfmg_deleteconfig" command have been changed.	5.11	
Added an L-Platform API.	7.3.2.9,7.3.2.10,7.3.2.11,7.3.2.12	
Added and amended L-Platform API tags.	7.3.1.4,7.3.2.2,7.3.2.8,7.3.3.1,7.3.3.8,7.3.3.11	
The sample response of L-Platform API was changed.	7.3.1.4,.3.2.2,7.3.2.6,7.3.3.8	
"VSYS10096 error when using L-Platform Management after Disaster Recovery" have been added.	9.3	
Red Hat(R) Enterprise Linux(R) 6.2 was added as product for the abbreviations Linux and RHEL-KVM.	Preface	1.3 Edition
The function explanation of the recoverService command has been changed.	5.5	
Some notes have been added for the ctmg_collectinfo command.	5.7	
Added a command(cfmg_syncdiskinfo) relating to switchover of operating or standby status of storage.	5.13	
Notes of the cfmg_addimageinfo command have been changed.	2.6	1.4 Edition
Added L-Platform API tags.	7.3.2.2, 7.3.2.6, 7.3.2.7	
Added the cfmg_deletelplatform command.	Chapter 1	1.5 Edition
Added messages starting with DELP.	1.1	
The usage examples and the notes of recoverAllService command have been changed.	5.6	

Additions and changes	Section	Edition
Added a command to delete L-Platform (cfmg_deletelplatform).	5.14	

Contents

Part 1   Command Reference

This section describes how to use the various commands provided by this product.

Chapter 1 Overview

This chapter provides an overview of the commands available in this product.

Four types of commands are available: the L-Platform Template Management Commands, the Accounting commands, the Access Authority Customize Commands and the Maintenance Commands.

- L-Platform Template Management Commands

  cfmg_listsoft

  cfmg_addsoft

  cfmg_deletesoft

  cfmg_listvmimage

  cfmg_listimageinfo

  cfmg_addimageinfo

  cfmg_updateimageinfo

  cfmg_deleteimageinfo

  cfmg_listvnet

  cfmg_listnetinfo

  cfmg_addnetinfo

  cfmg_deletenetinfo

  cfmg_listtemplate

  cfmg_addtemplate

  cfmg_showtemplate

  cfmg_deletetemplate

- Accounting commands

  ctchg_getmeterlog

  ctchg_deletemeterlog

  ctchg_chgschedule

  productmaintain

  currencyset

- Access Authority Customize Commands

  ctac_getauthority

  ctac_updauthority

- Maintenance Commands

  cfmg_listhostnamecounter

  cfmg_resethostnamecounter

  cfmg_importlserver

  cfmg_deletesysdata

  recoverService

  recoverAllService

  ctmg_collectinfo

  ctmg_resetbackuperror

cfmg_exportconfig

cfmg_importconfig

cfmg_deleteconfig

cmdbrefresh

cfmg_syncdiskinfo

cfmg_deletelplatform

The table below lists the permissions required to execute each command depending on the server on which they are executed.

Table 1.1 List of Commands

Command	Function	Required Privileges	Location
cfmg_listsoft	Displaying software information list	Infra administrator with OS administrator privilege	Admin Server
cfmg_addsoft	Registering software iformation	Infra administrator with OS administrator privilege	Admin Server
cfmg_deletesoft	Deleting software information	Infra administrator with OS administrator privilege	Admin Server
cfmg_listvmimage	Displaying a cloning image list	Infra administrator with OS administrator privilege	Admin Server
cfmg_listimageinfo	Displaying image information list	Infra administrator with OS administrator privilege	Admin Server
cfmg_addimageinfo	Registering image information	Infra administrator with OS administrator privilege	Admin Server
cfmg_updateimageinfo	Updating image information	Infra administrator with OS administrator privilege	Admin Server
cfmg_deleteimageinfo	Deleting image information	Infra administrator with OS administrator privilege	Admin Server
cfmg_listvnet	Displaying a virtual network list	Infra administrator with OS administrator privilege	Admin Server
cfmg_listnetinfo	Displaying segment information list	Infra administrator with OS administrator privilege	Admin Server
cfmg_addnetinfo	Registering segment information	Infra administrator with OS administrator privilege	Admin Server
cfmg_deletenetinfo	Deleting segment information	Infra administrator with OS administrator privilege	Admin Server
cfmg_listtemplate	Displaying template information list	Infra administrator with OS administrator privilege	Admin Server
cfmg_addtemplate	Registering template information	Infra administrator with OS administrator privilege	Admin Server
cfmg_showtemplate	Changing L-Platform access setting	Infra administrator with OS administrator privilege	Admin Server
cfmg_deletetemplate	Deleting template information	Infra administrator with OS administrator privilege	Admin Server
ctchg_getmeterlog	Output metering logs	Infra administrator with OS administrator privilege	Admin Server
ctchg_deletemeterlog	Delete metering logs	Infra administrator with OS administrator privilege	Admin Server

Command	Function	Required Privileges	Location
ctchg_chgschedule	Change periodic log schedule settings	Infra administrator with OS administrator privilege	Admin Server
productmaintain	Product Master Maintenance	Infra administrator with OS administrator privilege	Admin Server
currencyset	Change currency information setting	Infra administrator with OS administrator privilege	Admin Server
ctac_getauthority	Acquiring information about access authority	Infra administrator with OS administrator privilege	Admin Server
ctac_updauthority	Access authority modification	Infra administrator with OS administrator privilege	Admin Server
cfmg_listhostnamecounter	Display list of serial numbers for host name settings	Infra administrator with OS administrator privilege	Admin Server
cfmg_resethostnamecounter	Reset serial numbers for host name settings	Infra administrator with OS administrator privilege	Admin Server
cfmg_importlserver	Import L-Server	Infra administrator with OS administrator privilege	Admin Server
cfmg_deletesysdata	Unnecessary data deletion	Infra administrator with OS administrator privilege	Admin Server
recoverService	Disable L-Platform application	Infra administrator with OS administrator privilege	Admin Server
recoverAllService	Disable L-Platform application	Infra administrator with OS administrator privilege	Admin Server
ctmg_collectinfo	Collection of investigation data	System Administrator	Admin Server
ctmg_resetbackuperror	Recover base backup error	System Administrator	Admin Server
cfmg_exportconfig	Export configuration information	System Administrator	Admin Server
cfmg_importconfig	Import configuration information	System Administrator	Admin Server
cfmg_deleteconfig	Delete all configuration information	System Administrator	Admin Server
cmdbrefresh	Refresh configuration information of system condition	Infra administrator with OS administrator privilege	Admin Server
cfmg_syncdiskinfo	Synchronize disk information	Infra administrator with OS administrator privilege	Admin Server
cfmg_deletelplatform	Delete L-Platform	Infra administrator with OS administrator privilege	Admin Server

1.1 Exit Status and Messages

Check the Exit status for the results of Commands.

If the exit status is 0, the command terminated normally. If the exit status is not 0, the command ended abnormally and a message is displayed. Refer to the description of each command for details.

Refer to "Messages CE" for details.

Type	Type of Message
L-Platform Template Management Commands	Messages Starting with TPLC
Accounting Commands	Messages Starting with ctchg
	Messages Starting with meter

Type	Type of Message
Access Authority Customize Commands	Messages Starting with ctac
Maintenance Commands	Messages Starting with BKRS
	Messages Starting with BRPG
	Messages Starting with DELP
	Messages Starting with DRC
	Messages Starting with TPLC

1.1.1 How to Check Exit Status

Exit Status can be checked after the commands are executed.

Exit Status checking method examples are shown below.

[Windows]

```
C:\Users\Administrator> <Installation directory for this product>\RCXCFMG\bin
\cfmg_listhostnamecounter
C:\Users\Administrator> echo %errorlevel%
0
C:\Users\Administrator>
```

[Linux]

```
$ su -
Password: Super user's password
# /opt/FJSVcfmg/bin/cfmg_listhostnamecounter
# echo $?
0
#
```

Note

. . . .

If the admin server is Linux, ensure that the environment variable LANG is "en_US.UTF-8" when executing L-Platform Template Management Commands.

. . . .

1.2 Log Output of Disaster Recovery Commands

Relevant Commands

The following commands for Disaster Recovery output log messages of the beginning and the result of execution to a log file when the commands are executed:

- cfmg_exportconfig

- cfmg_importconfig

- cfmg_deleteconfig

Log Output Destination

[Windows]

Installation directory for this product\RCXCFMG\logs\vsys_dr_log

[Linux]

/var/opt/FJSVcfmg/logs/vsys_dr_log

Log Output Format

The contents are output in one of the following formats:

- Format 1: date error-level message

- Format 2: date error-level message-ID message

When an error has occurred, the log is output in the format 2 with the error level "ERROR".

L-Platforms that need actions after Disaster Recovery

If there are ongoing processes such as L-Platform deployments or reconfigurations when the L-Platforms are exported,

Disaster Recovery may recover some L-Platform information without resources.

Operating a server or a disk contained in such L-Platforms result in an error.

When cfmg_importconfig command is executed and import is performed,

The command extracts information of L-Platforms whose resources may not exist

and outputs logs in the format 1.

Output message details are shown below.

- Log output format

  Format 1

- Error level

  WARN

- Message

  Detailed information is output as the message.

```
item 1 = [content 1], item 2 = [content 2], ... item n = [content n]
```

The following items are output.

Item name	Content
Processing	The process being performed when the L-Platform is exported
L-Platform ID	The ID of the L-Platform that needs checking
System name	The L-Platform name
Tenant	The tenant of the L-Platform
User	The owner of the L-Platform
Template ID	The ID of the template the L-Platform uses
Server ID	The ID of the server being processed (It is output only when processing on a server.)
Server name	The name of the server being processed (It is output only when processing on a server.)
Date	The date and time of the processing

One of the following contents is output for the content of "Processing" item.

Content	Meaning
SUBSCRIBING	Deploying
RECONFIGURING	Reconfiguring
UNSUBSCRIBING	Unsubscribing
TAKING SNAPSHOT	Taking a snapshot (virtual server)
	Backing up (physical server)
RESTORING	Restoring
CLONING	Collecting an image
APPLYING UNSUBSCRIPTION	Applying an unsubscription
APPLYING SUBSCRIPTION	Applying a subscription
SAVING NEW CONFIGURATION	Saving a configuration of a new system
APPLYING RECONFIGURE	Applying a reconfiguration
SAVING RECONFIGURATION	Saving a configuration of a reconfiguration

Actions after performing Disaster Recovery

After performing Disaster Recovery, check vsys_dr_log to see if the logs shown in " L-Platforms that need actions after Disaster Recovery" are output.

If the logs shown in"L-Platforms that need actions after Disaster Recovery " are output, take the following actions according to the unfinished process

indicated by the "Processing" item even if it is displayed on the L-Platform management window.

a. SUBSCRIBING

The L-Platform was being deployed when it was exported.

What to check	Check if the L-Platform is displayed on the resource management window.	
Pattern 1	Condition	It is displayed on the resource management window.
	Action	It was successfully deployed after the export. Use the deployed L-Platform as it is.
Pattern 2	Condition	It is not displayed on the resource management window.
	Action	The deployment process was not completed successfully after the export. Perform the following procedure: Using the 5.4 cfmg_deletesysdata (Unnecessary Data Deletion) command, delete the L-Platform. Deploy an L-Platform again.

b. RECONFIGURING

The L-Platform was during a reconfiguration such as adding or deleting servers or disks, or changing server details when it was exported.

When its servers or disks have been added or deleted.

What to check	On the resource management window, check if the configuration of the servers and their disks agrees with the L-Platform management window.	
Pattern 1	Condition	The configuration of servers or disks agrees, and servers or disks have been added.
	Action	Adding servers or disks succeeded after the export. Use the L-Platform as it is.
Pattern 2	Condition	The configuration of servers or disks agrees, and servers or disks have been deleted.

	Action	Deleting servers or disks was not completed successfully after the export. Delete servers or disks again by a reconfiguration.
Pattern 3	Condition	The configuration of servers or disks does not agree, and servers or disks have been added.
	Action	Adding servers or disks was not completed successfully after the export. Perform the following procedure: Using the cfmg_deletesysdata command, delete the servers or disks that have been added. Add servers or disks again.
Pattern 4	Condition	The configuration of servers or disks does not agree, and servers or disks have been deleted.
	Action	Deleting servers or disks succeeded after the export. Perform the following procedure: 1) Using the cfmg_deletesysdata command, delete the servers or disks that have been deleted.

When server details, the L-Platform name, server names, or boot priorities have been changed.

What to check		Compare the resource management window and the L-Platform management window to check if the management information of the L-Platform agrees. On the resource management window, the L-Platform name is displayed in the L-Platform comment field and server names are in the L-Server comment fields.
Pattern 1	Condition	The management information agrees.
	Action	The reconfiguration such as changing server details succeeded after the export. Use the L-Platform as it is.
Pattern 2	Condition	The management information does not agree.
	Action	The reconfiguration such as changing server details was not completed successfully after the export. Reconfigure it again.

c. UNSUBSCRIBING

The L-Platform was being unsubscribed when it was exported.

What to check		Check if the L-Platform is displayed on the resource management window.
Pattern 1	Condition	It is displayed on the resource management window.
	Action	The unsubscription was not completed successfully after the export. Unsubscribe it again.
Pattern 2	Condition	It is not displayed on the resource management window.
	Action	The unsubscription succeeded after the export. Perform the following procedure: 1) Using the cfmg_deletesysdata command, delete the L-Platform.

d. AKING SNAPSHOT

The L-Platform contains virtual servers that were being taken snapshots or physical servers that were being backed up when it was exported.

Redo the operation as needed.

In the history of snapshots or backups, the ending date is displayed as a blank and the status as an error.

e. RESTORING

The L-Platform contains servers that were being restored when it was exported.

Redo the operation as needed.

In the history of snapshots or backups, the ending date is displayed as a blank and the status as an error.

f. CLONING

The L-Platform contains servers that were being collected images of when it was exported.

What to check	Check if the collected cloning images are displayed on the resource management window.	
Pattern 1	Condition	They are displayed on the resource management window.
	Action	Collecting images succeeded after the export. Register the image information of the cloning images.
Pattern 2	Condition	They are not displayed on the resource management window.
	Action	Collecting images was not completed successfully after the export. Collect images again.

g. APPLYING UNSUBSCRIPTION

The L-Platform was in an application process of an unsubscription when it was exported.

What to check	Check if the L-Platform is displayed on the resource management window.	
Pattern 1	Condition	It is displayed on the resource management window.
	Action	The request was not approved or the unsubscription was not completed successfully after the export. Apply an unsubscription again.
Pattern 2	Condition	It is not displayed on the resource management window.
	Action	The request was approved and the unsubscription was succeeded after the export. Perform the following procedure: 1) Using the cfmg_deletesysdata command, delete the L-Platform.

h. APPLYING SUBSCRIPTION

The L-Platform was in an application process of a subscription when it was exported.

What to check	Check if the L-Platform is displayed on the resource management window.	
Pattern 1	Condition	It is displayed on the resource management window.
	Action	The request was approved and the L-Platform was deployed successfully after the export. Use the deployed L-Platform as it is.
Pattern 2	Condition	It is not displayed on the resource management window.
	Action	The request was not approved or the deployment was not completed successfully after the export. Apply a subscription again.

i. SAVING NEW CONFIGURATION

The configuration of the L-Platform was saved when it was exported.

What to check	Check if the L-Platform is displayed on the resource management window.	
Pattern 1	Condition	It is displayed on the resource management window.

	Action	It was deployed after the export. Use the deployed L-Platform as it is.
Pattern 2	Condition	It is not displayed on the resource management window.
	Action	It was not deployed or the deployment was not completed successfully after the export.
		If it has been deployed, create an L-Platform again.

j. PPLYING RECONFIGURE

The configuration of a reconfiguration request of the L-Platform was saved when it was exported.

What to check	Check if the L-Platform is in the applied state.	
Pattern 1	Condition	It is in an applied state.
	Action	The reconfiguration succeeded after the export. Use the L-Platform as it is.
Pattern 2	Condition	It is not in an applied state.
	Action	The request was not approved or the reconfiguration was not completed successfully after the export.
		If the request has been approved, request a reconfiguration again.

k. SAVING RECONFIGURATION

The configuration of a reconfiguration of the L-Platform was saved when it was exported.

What to check	Check if the L-Platform is in a state with its configuration saved.	
Pattern 1	Condition	It is in a state with its configuration saved.
	Action	The reconfiguration was completed successfully after the export. Use the L-Platform as it is.
Pattern 2	Condition	It is not in a state with its configuration saved.
	Action	It was not reconfigured or the reconfiguration was not completed successfully after the export.
		If it has been reconfigured, reconfigure it again.

Chapter 2 L-Platform Template Management Commands

This chapter explains L-Platform Template Management Commands.

2.1 cfmg_listsoft (Displaying Software Information List)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_listsoft -Displaying Software Information List

[Linux]

/opt/FJSVcfmg/bin/cfmg_listsoft -Displaying Software Information List

Synopsis

cfmg_listsoft [-v] [-utf8]

Functional Description

This command lists registered software information in XML format.

This command outputs all of the registered software information in the following format:

Detailed format	Simple format	Output format
Yes	Yes	`<?xml version="1.0" encoding="UTF-8"?>`
Yes	Yes	`<softwares>`
Yes	Yes	`    <software>`
Yes	Yes	`        <id>[Software ID]</id>`
Yes	Yes	`        <name>[Software name]</name>`
Yes	Yes	`        <ownerOrg>[Owner (tenant)]</ownerOrg>`
Yes	Yes	`        <ownerUser>[Owner (user)]</ownerUser>`
Yes	Yes	`        <useFlag>[Use flag]</useFlag>`
Yes	Yes	`        <publicFlag>[Public flag]</publicFlag>`
Yes	Yes	`        <category>[Software category]</category>`
Yes	No	`        <osCategory>[Operating system category]</osCategory>`
Yes	No	`        <version>[Version]</version>`
Yes	No	`        <officialVersion>[Official version]</officialVersion>`
Yes	No	`        <patch>[Patch version number]</patch>`
Yes	No	`        <license>[License]</license>`
Yes	No	`        <support>[Support]</support>`
Yes	No	`        <productId>[Model number]</productId>`
Yes	No	`        <productName>[Product name]</productName>`
Yes	No	`        <price>[Unit price]</price>`
Yes	No	`        <chargeType>[Billing method]</chargeType>`
Yes	No	`        <expectedUsage>[Expected monthly usage]</expectedUsage>`
Yes	Yes	`    </software>`
Yes	No	`    ...`
Yes	Yes	`</softwares>`

Yes: Indicates that the information is output.

No: Indicates that the information is not output.

- If registered software information does not exist, information will be output in the following format.

```
<?xml version="1.0" encoding="UTF-8"?>
<softwares />
```

Options

-v (optional)

This option outputs the list in detailed format.
If this option is omitted, the list is output in the simple format.

-utf8 (optional)

This option outputs the list in UTF-8 format.
This option is only enabled for Windows versions.
If this option is omitted, the list is output in ISO-8859-1 format.
For Linux versions, the list is output in UTF-8 irrespective of this option.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_listsoft
<?xml version="1.0" encoding="Windows-31J"?>
<softwares>
    <software>
        <id>SW00000112</id>
        <category>OS</category>
        <name>Red Hat Enterprise Linux 5 (for Intel64)</name>
        <ownerOrg>Unyou_Org</ownerOrg>
        <ownerUser>UO_User01</ownerUser>
    </software>
</softwares>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_listsoft
<?xml version="1.0" encoding="UTF-8"?>
<softwares>
    <software>
        <id>SW00000112</id>
        <category>OS</category>
        <name>Red Hat Enterprise Linux 5 (for Intel64)</name>
        <ownerOrg>Unyou_Org</ownerOrg>
        <ownerUser>UO_User01</ownerUser>
```

```
        </software>
</softwares>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.2 cfmg_addsoft (Registering Software Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_addsoft -Registering Software Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_addsoft -Registering Software Information

Synopsis

cfmg_addsoft [-name <*software name*>] -xml <*software information file path*>

Functional Description

This command registers software information.

The software ID that has been allocated is output using the following XML format.

```
<?xml version="1.0" encoding="UTF-8"?>
<result>
    <id>[software ID]</id>
</result>
```

Options

-name (optional)

This option specifies the name of the software to be registered in the software information file, using a string of up to 85 printable ASCII characters.
If the software name includes spaces, enclose the name in double quotes.
If this option is specified, it takes priority over information in the software information file.

If this option is omitted, the software name in the software information is enabled.

If this option is omitted and there is no software name written in the software information, an error will occur.

-xml

This option specifies the absolute or relative path to the software information file, using a string of printable ASCII characters.
If the path includes spaces, enclose the path in double quotes.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_addsoft -xml c:\tmp\template_test\software
\software.xml
<?xml version="1.0" encoding="Windows-31J"?>
<result>
    <id>SW00000112</id>
</result>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_addsoft -xml /tmp/template_test/software/software.xml
<?xml version="1.0" encoding="UTF-8"?>
<result>
    <id>SW00000112</id>
</result>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.3 cfmg_deletesoft (Deleting Software Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_deletesoft -Deleting Software Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_deletesoft -Deleting Software Information

Synopsis

cfmg_deletesoft [-f] -id *<software ID>*

Functional Description

This command deletes software information.

Options

-f (optional)

This option executes the deletion without confirmation.
If this option is omitted, a confirmation prompt will be output before the deletion takes place.

-id

This option specifies the software ID for the software information file to be deleted.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_deletesoft -id SW00000112
Do you want to delete the software information? (Y/N) y
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_deletesoft -id SW00000112
Do you want to delete the software information? (Y/N) y
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.4 cfmg_listvmimage (Displaying a Cloning Image List)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_listvmimage -Displaying a Cloning Image List

[Linux]

/opt/FJSVcfmg/bin/cfmg_listvmimage -Displaying a Cloning Image List

Synopsis

cfmg_listvmimage [-utf8]

Functional Description

This command outputs an XML list of the cloning images that have been registered with Resource Management.

All cloning images that have been registered with Resource Management will be output in the following format:

```
<?xml version="1.0" encoding="UTF-8"?>
<images>
    <image>
        <id>[Resource ID]</id>
        <name>[Cloning image name]</name>
        <comment>[Comment]</comment>
        <type>[Cloning image type]</type>
        <version>[Cloning image version]</version>
        <time>[Date and time when the cloning image was created]</time>
        <serverType>[Server type]</serverType>
    </image>
    ...
</images>
```

Note

If image information registered with Resource Management does not exist, information will be output in the following format:

```
<?xml version="1.0" encoding="UTF-8"?>
<images />
```

Options

-utf8 (optional)

This option outputs the list in UTF-8 format.
This option is only enabled for Windows versions.
If this option is omitted, the list is output in ISO-8859-1 format.
For Linux versions, the list is output in UTF-8 irrespective of this option.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_listvmimage
<?xml version="1.0" encoding="Windows-31J"?>
<images>
    <image>
        <id>ST01-M_896</id>
        <name>RHELx64_IMG</name>
        <comment />
```

```
            <type>cloning</type>
            <version>1</version>
            <time>2010-11-17-15:20:17+09:00</time>
            <serverType>extra_small</serverType>
        </image>
</images>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_listvmimage
<?xml version="1.0" encoding="UTF-8"?>
<images>
    <image>
        <id>ST01-M_896</id>
        <name>RHELx64_IMG</name>
        <comment />
        <type>cloning</type>
        <version>1</version>
        <time>2010-11-17-15:20:17+09:00</time>
        <serverType>extra_small</serverType>
    </image>
</images>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.5 cfmg_listimageinfo (Displaying Image Information List)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_listimageinfo -Displaying Image Information List

[Linux]

/opt/FJSVcfmg/bin/cfmg_listimageinfo -Displaying Image Information List

Synopsis

Cfmg_listimageinfo [-v] [-utf8] [-a]

Functional Description

This command outputs an XML list of registered image information.

All of the image information that has been registered is output in the following format:

Detailed format	Simple format	Output format
Yes	Yes	`<?xml version="1.0" encoding="UTF-8"?>`
Yes	Yes	`<images>`
Yes	Yes	`    <image>`
Yes	Yes	`        <id>[Cloning image ID]</id>`

Detailed format	Simple format	Output format
Yes	Yes	`<name>[image information name]</name>`
Yes	Yes	`<resourceId>[Resource ID]</resourceId>`
Yes	Yes	`<imageName>[Cloning image name]</imageName>`
Yes	No	`<ownerOrg>[Owner (tenant)]</ownerOrg>`
Yes	No	`<ownerUser>[Owner (user)]</ownerUser>`
Yes	No	`<useFlag>[Use flag]</useFlag>`
Yes	No	`<publicFlag>[Public flag]</publicFlag>`
Yes	No	`<publicCategory>[Public category]</publicCategory>`
Yes	Yes	`<serverCategory>[Sever category]</serverCategory>`
Yes	No	`<serverApplication>[Server application]</serverApplication>`
Yes	No	`<serverType>[Default server type]</serverType>`
Yes	No	`<cpuBit>[CPU bit number]</cpuBit>`
Yes	No	`<sysvolSize>[System disk size]</sysvolSize>`
Yes	No	`<maxCpuPerf>[Maximum CPU performance]</maxCpuPerf>`
Yes	No	`<numOfMaxCpu>[Maximum number of CPUs]</numOfMaxCpu>`
Yes	No	`<maxMemorySize>[Maximum memory size]</maxMemorySize>`
Yes	No	`<numOfMaxDisk>[Maximum number of disks]</numOfMaxDisk>`
Yes	No	`<maxDiskSize>[Maximum disk sizey]</maxDiskSize>`
Yes	No	`<numOfMaxNic>[Maximum number of NICs]</numOfMaxNic>`
Yes	No	`<initialPassword>[Initial password]</initialPassword>`
Yes	No	`<icon>[Icon type]</icon>`
Yes	No	`<virtualization>[Virtualization method]</virtualization>`
Yes	Yes	`<filterPool>[Filter string]</filterPool>`
Yes	No	`<showFlag>[Show flag]</showFlag>`
Yes	No	`<productName>[Product name]</productName>`
Yes	No	`<price>[Unit price]</price>`
Yes	No	`<chargeType>[Billing method]<chargeType>`
Yes	No	`<unitName>[Charge unit]<unitName>`
Yes	No	`<currencyUnit>[Currency code]<currencyUnit>`
Yes	No	`<currencySign>[Currency symbol]<currencySign>`
Yes	No	`<numOfDecimals>[Number of decimal places]<numOfDecimals>`
Yes	No	`<softwares>`
Yes	No	`...`
Yes	No	`</softwares>`
Yes	No	`<patches>`
Yes	No	`<patch>`
Yes	No	`<softwareid>[Software ID]</softwareid>`
Yes	No	`<patchid>[Patch ID]</patchid>`
Yes	No	`<componentName>[Component name]</componentName>`
Yes	No	`<description>[Description]</description>`
Yes	No	`</patch>`
Yes	No	`...`
Yes	No	`</patches>`
Yes	Yes	`</image>`
Yes	Yes	`</images>`

Yes: Indicates that the information is output.

No: Indicates that the information is not output.

🖝 **Note**
....

If registered image information does not exist, information will be output in the following format:

```
<?xml version="1.0" encoding="UTF-8"?>
<images />
```

....

Options

-v (optional)

This option outputs the list in detailed format.
If this option is omitted, the list is output in the simple format.

-utf8 (optional)

This option outputs the list in UTF-8 format.
This option is only enabled for Windows versions.
If this option is omitted, the list is output in ISO-8859-1 format.
For Linux versions, the list is output in UTF-8 irrespective of this option.

-a (optional)

This option is only enabled for Windows versions.
This option displays a list of the image information as well as the image information that has been automatically generated by the 5.3 cfmg_importlserver (Import L-Server) command.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_listimageinfo -v
<?xml version="1.0" encoding="Windows-31J"?>
<images>
    <image>
        <id>ST01-M_896</id>
        <name>RHELx64_IMG</name>
        <resourceId>[Resource ID]</resourceId>
        <imageName>[Cloning image ID]</imageName>
        <ownerOrg>cfmgadm</ownerOrg>
        <ownerUser>cfmgadm</ownerUser>
        <publicCategory>PUBLIC</publicCategory>
        <serverCategory>GENERAL</serverCategory>
        <serverApplication>AP</serverApplication>
        <serverType>extra_small</serverType>
        <cpuBit>32</cpuBit>
        <sysvolSize>15.0</sysvolSize>
        <maxCpuPerf>10.0</maxCpuPerf>
        <numOfMaxCpu>1</numOfMaxCpu>
        <maxMemorySize>10.0</maxMemorySize>
        <numOfMaxDisk>10</numOfMaxDisk>
        <maxDiskSize>30.0</maxDiskSize>
        <numOfMaxNic>1</numOfMaxNic>
        <icon>unit_tag_web.png</icon>
        <virtualization>hvm</virtualization>
        <filterPool>web</filterPool>
        <showFlag>0</showFlag>
        <softwares>
            <software>
                <name>Red Hat Enterprise Linux 5 (for Intel64)</name>
                <id>SW00000011</id>
```

```
            <ownerOrg>Unyou_Org</ownerOrg>
            <ownerUser>UO_User01</ownerUser>
            <category>OS</category>
            <osCategory>linux64</osCategory>
            <version>5.5</version>
            <officialVersion />
            <patch />
            <license />
            <support />
            <productId />
            <productName />
            <price />
            <chargeType />
            <expectedUsage />
        </software>
    </softwares>
    </image>
</images>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_listimageinfo -v
<?xml version="1.0" encoding="UTF-8"?>
<images>
    <image>
        <id>ST01-M_896</id>
        <name>RHELx64_IMG</name>
        <resourceId>[Resource ID]</resourceId>
        <imageName>[Cloning image ID]</imageName>
        <ownerOrg>cfmgadm</ownerOrg>
        <ownerUser>cfmgadm</ownerUser>
        <publicCategory>PUBLIC</publicCategory>
        <serverCategory>GENERAL</serverCategory>
        <serverApplication>AP</serverApplication>
        <serverType>extra_small</serverType>
        <cpuBit>32</cpuBit>
        <sysvolSize>15.0</sysvolSize>
        <numOfNIC>2</numOfNIC>
        <maxCpuPerf>10.0</maxCpuPerf>
        <numOfMaxCpu>1</numOfMaxCpu>
        <maxMemorySize>10.0</maxMemorySize>
        <numOfMaxDisk>10</numOfMaxDisk>
        <maxDiskSize>30.0</maxDiskSize>
        <numOfMaxNic>1</numOfMaxNic>
        <icon>unit_tag_web.png</icon>
        <virtualization>hvm</virtualization>
        <filterPool>web</filterPool>
        <showFlag>0</showFlag>
        <softwares>
            <software>
                <name>Red Hat Enterprise Linux 5 (for Intel64)</name>
                <id>SW00000011</id>
                <ownerOrg>Unyou_Org</ownerOrg>
                <ownerUser>UO_User01</ownerUser>
                <category>OS</category>
                <osCategory>linux64</osCategory>
                <version>5.5</version>
                <officialVersion />
                <patch />
                <license />
                <support />
                <productId />
                <productName />
```

```
                <price />
                <chargeType />
                <expectedUsage />
            </software>
        </softwares>
    </image>
</images>
```

Exit Status

This command returns the following values:

0

> The command executed successfully.

non-zero

> An error has occurred.

2.6 cfmg_addimageinfo (Registering Image Information)

Name

[Windows]

> Installation directory for this product\RCXCFMG\bin\cfmg_addimageinfo -Registering Image Information

[Linux]

> /opt/FJSVcfmg/bin/cfmg_addimageinfo -Registering Image Information

Synopsis

cfmg_addimageinfo -xml <*image information file path*> [-n]

Functional Description

This command registers image information.
This command also registers image information if there is no cloning image for the L-Server to be imported.
To manage software and patches on the server that will be imported, use this command to register image information before importing the L-Server.
If a cloning image exists, either register it as per normal using the 2.6 cfmg_addimageinfo (Registering Image Information) command without specifying the "-n" option, or register it from the Manager View.

The image information registered by this command will not be displayed in the template manager View.

Options

-xml

> This option specifies the absolute or relative path to the image information file, using a string of printable ASCII characters.
> If the path includes spaces, enclose the path in double quotes.

-n (optional)

> This option is only enabled for Windows versions.
> Even if the target cloning image does not exist in Resource Management, this option registers the image information without an error.

> 📎 **Note**
>
> ....
>
> When specifying the -n option, specify arbitrary character strings in "resourceId" and "imageName".
>
> ....

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_addimageinfo
 -xml c:\tmp\template_test\images\sample.xml
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_addimageinfo -xml /tmp/template_test/images/sample.xml
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.7 cfmg_updateimageinfo (Updating Image Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_updateimageinfo -Updating Image Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_updateimageinfo -Updating Image Information

Synopsis

cfmg_updateimageinfo -xml <*image information file path*>

Functional Description

This command updates image information.

> 📝 **Note**
>
> ....
>
> To update image information, first use the 2.15 cfmg_showtemplate (Changing L-Platform Access Setting)command to set any system templates that are using that image information to "Private" and then update the image information.
>
> ....

Options

-xml

This option specifies the absolute or relative path to the image information file, using a string of printable ASCII characters.

If the path includes spaces, enclose the path in double quotes.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_updateimageinfo
 -xml c:\tmp\template_test\images\sample.xml
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_updateimageinfo -xml /tmp/template_test/images/sample.xml
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.8 cfmg_deleteimageinfo (Deleting Image Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_deleteimageinfo -Deleting Image Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_deleteimageinfo -Deleting Image Information

Synopsis

cfmg_deleteimageinfo [-f] -id <*cloning Image id*>

Functional Description

This command deletes image information.

Options

-f (optional)

This option executes the deletion without confirmation.
If this option is omitted, a confirmation prompt will be output before the deletion takes place.

-id

This option specifies the cloning image id of the image information file to be deleted.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_deleteimageinfo -id image-1372772cae66
Do you want to delete the image information? (Y/N) y
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_deleteimageinfo -id image-1372772cae66
Do you want to delete the image information? (Y/N) y
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.9 cfmg_listvnet (Displaying a Virtual Network List)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_listvnet -Displaying a Virtual Network List

[Linux]

/opt/FJSVcfmg/bin/cfmg_listvnet -Displaying a Virtual Network List

Synopsis

cfmg_listvnet [-utf8]

Functional Description

This command outputs in XML format a list of the network resources that have been registered with Resource Management.

All of the network resources that have been registered with Resource Management are output in the following format:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<networks>
    <network>
        <id>[Resouce ID]</id>
        <name>[Resource name]</name>
        <tenantName>[Tenant name]</tenantName>
        <category>[Network category]</category>
        <extid>[VLAN ID]</extid>
        <type>[Network type]</type>
        <segmentType>[Segment type information]</segmentType>
        <comment>[Comment]</comment>
        <addrset>
            <name>[Address set name]</name>
            <subnet>[Subnet address]</subnet>
            <mask>[Subnet mask]</mask>
            <start>[Start address]</start>
            <end>[End address]</end>
        </addrset>
        <exclude>
            <range>
                <start>[Start addrtess]</start>
                <end>[End address]</end>
            </range>
            <range>
                <start>[Start address]</start>
                <end>[End address]</end>
            </range>
        </exclude>
        <status>
            <num>[Total number of addresses]</num>
            <used>[Number of used addresses]</used>
            <avail>[Number of available addresses]</avail>
        </status>
    </network>
</networks>
```

🅖 Note

....

If network resources registered with Resource Management do not exist, information is output in the following format:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<networks />
```

....

Options

-utf8 (optional)

This option outputs the list in UTF-8 format.
This option is only enabled for Windows versions.

If this option is omitted, the list is output in ISO-8859-1 format.

For Linux versions, the list is output in UTF-8 irrespective of this option.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_listvnet
<?xml version="1.0" encoding="Windows-31J"?>
<networks>
    <network>
        <id>ST01-M_1446</id>
        <name>gyomu-3</name>
        <tenantName>tenant1</tenantName>
        <category>BUSINESS</category>
        <extid>10</extid>
        <type />
        <segmentType>DMZ</segmentType>
        <comment>DMZ LAN</comment>
        <addrset>
            <name>192.168.xxx.xxx</name>
            <subnet>192.168.xxx.xxx</subnet>
            <mask>255.255.xxx.xxx</mask>
            <start>192.168.xxx.xxx</start>
            <end>192.168.xxx.xxx</end>
        </addrset>
        <exclude>
            <range>
                <start>192.168.xxx.xxx</start>
                <end>192.168.xxx.xxx</end>
            </range>
            <range>
                <start>192.168.xxx.xxx</start>
                <end>192.168.xxx.xxx</end>
            </range>
        </exclude>
        <status>
            <num>20</num>
            <used>3</used>
            <avail>17</avail>
        </status>
    /network>
</networks>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_listvnet
<?xml version="1.0" encoding="UTF-8"?>
<networks>
    <network>
        <id>ST01-M_1446</id>
        <name>gyomu-3</name>
        <tenantName>tenant1</tenantName>
```

```
            <category>BUSINESS</category>
            <extid>10</extid>
            <type />
            <segmentType>DMZ</segmentType>
            <comment>DMZ LAN</comment>
            <addrset>
                <name>192.168.xxx.xxx</name>
                <subnet>192.168.xxx.xxx</subnet>
                <mask>255.255.xxx.xxx</mask>
                <start>192.168.xxx.xxx</start>
                <end>192.168.xxx.xxx</end>
            </addrset>
            <exclude>
                <range>
                    <start>192.168.xxx.xxx</start>
                    <end>192.168.xxx.xxx</end>
                </range>
                <range>
                    <start>192.168.xxx.xxx</start>
                    <end>192.168.xxx.xxx</end>
                </range>
            </exclude>
            <status>
                <num>20</num>
                <used>3</used>
                <avail>17</avail>
            </status>
        </network>
</networks>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.10 cfmg_listnetinfo (Displaying Segment Information List)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_listnetinfo -Displaying Segment Information List

[Linux]

/opt/FJSVcfmg/bin/cfmg_listnetinfo -Displaying Segment Information List

Synopsis

fmg_listnetinfo [-utf8]

Functional Description

This command outputs an XML list of registered segment information.

This command outputs all of the registered segment information in the following format:

```
<?xml version="1.0" encoding="UTF-8"?>
<networkCategories>
    <category>
        <ownerOrg>[Owner (tenant)]</ownerOrg>
        <ownerUser>[Owner (user)]</ownerUser>
        <resourceId>[Resource ID]</resourceId>
        <type>[Network type]</type>
        <segmentType>[Segment type information]</segmentType>
    </category>
    ...
</networkCategories>
```

Note

If registered segments do not exist, information will be output in the following format:

```
<?xml version="1.0" encoding="UTF-8"?>
<networkCategories />
```

Options

-utf8 (optional)

> This option outputs the list in UTF-8 format.
> This option is only enabled for Windows versions.
> If this option is omitted, the list is output in ISO-8859-1 format.
> For Linux versions, the list is output in UTF-8 irrespective of this option.

Requirements

Permissions

> Infra administrator with OS administrator privilege

Location

> Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_listnetinfo -v
<?xml version="1.0" encoding="Windows-31J"?>
<networkCategories>
    <category>
        <resourceId>ST01-M_1446</resourceId>
        <type>BUSINESS</type>
        <segmentType>DMZ</segmentType>
        <ownerOrg>cfmgadm</ownerOrg>
        <ownerUser>cfmgadm</ownerUser>
    </category>
</networkCategories>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_listnetinfo -v
<?xml version="1.0" encoding="UTF-8"?>
```

```
<networkCategories>
    <category>
        <resourceId>ST01-M_1446</resourceId>
        <type>BUSINESS</type>
        <segmentType>DMZ</segmentType>
        <ownerOrg>cfmgadm</ownerOrg>
        <ownerUser>cfmgadm</ownerUser>
    </category>
</networkCategories>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.11 cfmg_addnetinfo (Registering Segment Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_addnetinfo -Registering Segment Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_addnetinfo -Registering Segment Information

Synopsis

cfmg_addnetinfo -xml <*segment information file path*>

Functional Description

This command registers segment information.

Options

-xml

This option specifies the absolute or relative path to the segment information file, using a string of printable ASCII characters.
If the path includes spaces, enclose the path in double quotes.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_addnetinfo
 -xml c:\tmp\template_test\networks\sample.xml
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_addnetinfo -xml /tmp/template_test/networks/sample.xml
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.12 cfmg_deletenetinfo (Deleting Segment Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_deletenetinfo -Deleting Segment Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_deletenetinfo -Deleting Segment Information

Synopsis

cfmg_deletenetinfo [-f] -id <*Resource ID*>

Functional Description

This command deletes segment information.

Options

-f (optional)

This option executes the deletion without confirmation.
If this option is omitted, a confirmation message will be output before the deletion takes place.

-id

This option specifies the resource ID to be deleted.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_deletenetinfo -id ST01-M_1446
Do you want to delete the segment? (Y/N) y
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_deletenetinfo -id ST01-M_1446
Do you want to delete the segment? (Y/N) y
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.13 cfmg_listtemplate (Displaying Template Information List)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_listtemplate -Displaying Template Information List

[Linux]

/opt/FJSVcfmg/bin/cfmg_listtemplate -Displaying Template Information List

Synopsis

cfmg_listtemplate [-v] [-utf8] [-a]

Functional Description

This command outputs an XML list of registered template information.

All of the template information that has been registered is output in the following format:

Detailed format	Simple format	Output format
Yes	Yes	`<?xml version="1.0" encoding="UTF-8"?>`
Yes	Yes	`<templates>`
Yes	Yes	`    <template>`
Yes	Yes	`        <id>[Template ID]</id>`
Yes	Yes	`        <name>[Template name]</name>`
Yes	No	`        <baseTemplateId>[Base template ID]</baseTemplateId>`
Yes	No	`        <baseTemplateName>[Base template name]</baseTemplateName>`
Yes	Yes	`        <ownerOrg>[Owner (tenant)]</ownerOrg>`
Yes	Yes	`        <ownerUser>[Owner (user)]</ownerUser>`
Yes	Yes	`        <useFlag>[Use flag]</useFlag>`
Yes	Yes	`        <publicCategory>[Public category]</publicCategory>`
Yes	No	`        <designSheetPath>[Path to the design sheet]</designSheetPath>`
Yes	No	`        <releaseDate>[Release date]</releaseDate>`

Detailed format	Simple format	Output format
Yes	No	`<numOfMaxVnet>[Maximum number of VNETs]</numOfMaxVnet>`
Yes	No	`<numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>`
Yes	Yes	`<description>[Description]</description>`
Yes	No	`<keyword>[Search keyword]</keyword>`
Yes	Yes	`<estimate>[Rough cost estimate]</estimate>`
Yes	Yes	`<license>[License]</license>`
Yes	Yes	`<support>[Support]</support>`
Yes	Yes	`<productId>[Model number]</productId>`
Yes	Yes	`<productName>[Product name]</productName>`
Yes	Yes	`<price>[Unit price]</price>`
Yes	Yes	`<chargeType>[Billing method]</chargeType>`
Yes	Yes	`<expectedUsage>[Expected monthly usage]</expectedUsage>`
Yes	Yes	`<showFlag>[Show flag]</showFlag>`
Yes	Yes	`<productName>[Product name]</productName>`
Yes	Yes	`<price>[Unit price]</price>`
Yes	Yes	`<chargeType>[Billing method]<chargeType>`
Yes	Yes	`<unitName>[Charge unit]<unitName>`
Yes	Yes	`<currencyUnit>[Currency code]<currencyUnit>`
Yes	Yes	`<currencySign>[Currency symbol]<currencySign>`
Yes	No	`<numOfDecimals>[Number of decimal places]<numOfDecimals>`
Yes	No	`<vnets>`
Yes	No	`    <vnet>`
Yes	No	`        <id>[Network ID]</id>`
Yes	No	`        <name>[Name]</name>`
Yes	No	`        <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>`
Yes	No	`        <resourceId>[Resource ID]</resourceId>`
Yes	No	`        <category>[Network category]</category>`
Yes	No	`        <segmentType>[Segment type information]</segmentType>`
Yes	No	`    </vnet>`
Yes	No	`    ...`
Yes	No	`</vnets>`
Yes	No	`<lnetdevs>`
Yes	No	`    <lnetdev>`
Yes	No	`        <name>[LNetDev name]</name>`
Yes	No	`        <type>[LNetDev type]</type>`
Yes	No	`        <lnetdevIfs>`
Yes	No	`            <lnetdevIf>`
Yes	No	`                <name>[Interface name]</name>`
Yes	No	`                <networkId>[Network ID]</networkId>`
Yes	No	`            </lnetdevIf>`
Yes	No	`            ...`
Yes	No	`        <lnetdevIfs>`
Yes	No	`        <ruleset>`
Yes	No	`            <name>[Rule set name]</name>`
Yes	No	`            <description>[Rule set description]</description>`
Yes	No	`            <parameters>`
Yes	No	`                <parameter>`
Yes	No	`                    <name>[Parameter name]</name>`
Yes	No	`                    <label>[Tenant Display Name]</label>`
Yes	No	`                  <segmentlabel>[Segment Display Name]</segmentlabel>`
Yes	No	`                    <serverlabel>[Server Display Name]</serverlabel>`
Yes	No	`                    <view>[Display flag]</view>`
Yes	No	`                    <value>[Parameter value]</value>`
Yes	No	`                    <summary>[Parameter Overview]</summary>`
Yes	No	`                  <description>[Parameter description]</description>`
Yes	No	`                </parameter>`
Yes	No	`                ...`
Yes	No	`            </parameters>`
Yes	No	`        </ruleset>`
Yes	No	`    </lnetdev>`
Yes	No	`</lnetdevs>`

Detailed format	Simple format	Output format
Yes	No	<pre> <servers>
<server></pre>
Yes	No	<pre> <no>[Server serial number]</no></pre>
Yes	No	<pre> <imageId>[Cloning image ID]</imageId></pre>
Yes	No	<pre> <name>[Server name]</name></pre>
Yes	No	<pre> <serverType>[Server type]</serverType></pre>
Yes	No	<pre> <pool>[Deployment destination pool resource name]</pool></pre>
Yes	No	<pre> <sparePool>[Spare pool resource name]</sparePool></pre>
Yes	No	<pre> <storagePool>[Storage pool resource name]</storagePool></pre>
Yes	No	<pre> <powerPriority>[Startup priority level]</powerPriority></pre>
Yes	No	<pre> <nicgroups></pre>
Yes	No	<pre> <nicgroup></pre>
Yes	No	<pre> <index>[NIC group index]</index></pre>
Yes	No	<pre> <networkId>[IP Address network ID]</networkId></pre>
Yes	No	<pre> <management>[Management NIC]</management></pre>
Yes	No	<pre> </nicgroup></pre>
Yes	No	<pre> ...</pre>
Yes	No	<pre> </nicgroups></pre>
Yes	No	<pre> <vnics></pre>
Yes	No	<pre> <vnic></pre>
Yes	No	<pre> <no>[NIC serial number]</no></pre>
Yes	No	<pre> <networkId>[IP address network ID]</networkId></pre>
Yes	No	<pre> <management>[Control NIC]</management></pre>
Yes	No	<pre> <group>[NIC group index]</group></pre>
Yes	No	<pre> </vnic></pre>
Yes	No	<pre> ...</pre>
Yes	No	<pre> </vnics></pre>
Yes	No	<pre> <vdisks></pre>
Yes	No	<pre> <vdisk></pre>
Yes	No	<pre> <no>[Disk serial number]</no></pre>
Yes	No	<pre> <diskSize>[Disk capacity]</diskSize></pre>
Yes	No	<pre> <resourceId>[Resource ID]</resourceId></pre>
Yes	No	<pre> <resourceName>[Disc Resource Name]<resourceName></pre>
Yes	No	<pre> <storagePool>[Storage pool resource name]</storagePool></pre>
Yes	No	<pre> </vdisk></pre>
Yes	No	<pre> ...</pre>
Yes	No	<pre> </vdisks></pre>
Yes	No	<pre> <image></pre>
Yes	No	<pre> [Image Information]</pre>
Yes	No	<pre> </image></pre>
Yes	No	<pre> </server></pre>
Yes	No	<pre> ...</pre>
Yes	Yes	<pre> </servers></pre>
Yes	Yes	<pre> </template></pre>
Yes	Yes	<pre> ...</pre>
Yes		<pre></templates></pre>

Yes: Indicates that the information is output.

No: Indicates that the information is not output.

Note

If template information does not exist, information will be output in the following format.

```
<?xml version="1.0" encoding="UTF-8"?>
<templates />
```

Options

-v (optional)

This option outputs the list in detailed format.
If this option is omitted, the list is output in the simple format.

-utf8 (optional)

This option outputs the list in UTF-8 format.
This option is only enabled for Windows versions.
If this option is omitted, the list is output in ISO-8859-1 format.
For Linux versions, the list is output in UTF-8 irrespective of this option.

-a (optional)

This option is only enabled for Windows versions.
This option displays a list of the templates that have been generated automatically by the 5.3 cfmg_importlserver (Import L-Server) command.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_listtemplate
<?xml version="1.0" encoding="Windows-31J"?>
<templates>
    <template>
        <id>template-12c95768de8</id>
        <name>TEMPLATE_SAMPLE1</name>
        <ownerOrg>cfmgadm</ownerOrg>
        <ownerUser>cfmgadm</ownerUser>
        <useFlag>true</useFlag>
        <publicCategory>PUBLIC</publicCategory>
        <description>Web/AP/DB 1 Server model</description>
        <estimate>0.0000</estimate>
        <license>0</license>
        <support>0</support>
        <productId />
        <productName />
        <price />
        <chargeType />
        <expectedUsage />
        <showFlag>1</showFlag>
    </template>
</templates>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_listtemplate
<?xml version="1.0" encoding="UTF-8"?>
<templates>
    <template>
```

```
            <id>template-12c95768de8</id>
            <name>TEMPLATE_SAMPLE1</name>
            <ownerOrg>cfmgadm</ownerOrg>
            <ownerUser>cfmgadm</ownerUser>
            <useFlag>true</useFlag>
            <publicCategory>PUBLIC</publicCategory>
            <description>Web/AP/DB 1 Server model</description>
            <estimate>0.0000</estimate>
            <license>0</license>
            <support>0</support>
            <productId />
            <productName />
            <price />
            <chargeType />
            <expectedUsage />
            <showFlag>1</showFlag>
        </template>
</templates>
```

Exit Status

This command returns the following values:

0

>   The command executed successfully.

non-zero

>   An error has occurred.

2.14 cfmg_addtemplate (Registering Template Information)

Name

[Windows]

>   Installation directory for this product\RCXCFMG\bin\cfmg_addtemplate -Registering Template Information

[Linux]

>   /opt/FJSVcfmg/bin/cfmg_addtemplate -Registering Template Information

Synopsis

cfmg_addtemplate [-id <*Template ID*>] [-name <*Template name*>] -xml <*Template information file path*>

Functional Description

This command registers template information.

The template ID that has been allocated is output using the following XML format:

```
<?xml version="1.0" encoding="UTF-8"?>
<result>
    <id>[Template ID]</id>
</result>
```

Options

-id (optional)

This option specifies the template ID using a string of up to 32 printable ASCII.

A registration error will occur if the template ID is already being used.
If this option is specified, it takes priority over information in the template information file.

If this option is omitted, an ID will be automatically created.

-name (optional)

This option specifies the name of the template using a string of up to 85 printable ASCII characters.
If the software name includes spaces, enclose the name in double quotes.
If this option is specified, it takes priority over information in the template information file.

If this option is omitted, the template name in the template information is enabled.

If this option is omitted and there is no template name written in the template information, an error will occur.

-xml

This option specifies the absolute or relative path to the template information file, using a string of printable ASCII characters.
If the path includes spaces, enclose the path in double quotes.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_addtemplate -xml c:\tmp\template_test
\sample1.xml
<?xml version="1.0" encoding="Windows-31J"?>
<result>
    <id>template-12c95768de8</id>
</result>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_addtemplate -xml /tmp/template_test/sample1.xml
<?xml version="1.0" encoding="UTF-8"?>
<result>
    <id>template-12c95768de8</id>
</result>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.15 cfmg_showtemplate (Changing L-Platform Access Setting)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_showtemplate - Changing L-Platform Access Setting

[Linux]

/opt/FJSVcfmg/bin/cfmg_showtemplate - Changing L-Platform Access Setting

Synopsis

cfmg_showtemplate -id <*Template ID*> -on | off

Functional Description

This command makes L-Platform template public or private.

Options

-id

This option specifies the template ID that makes the L-Platform template public or private.

-on

This option makes the L-Platform template public.

-off

This option makes the L-Platform template private.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_showtemplate -id template-12c95768de8 -on
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_showtemplate -id template-12c95768de8 -on
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

2.16 cfmg_deletetemplate (Deleting Template Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_deletetemplate -Deleting Template Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_deletetemplate -Deleting Template Information

Synopsis

cfmg_deletetemplate [-f] -id <*Template ID*>

Functional Description

This command deletes template information.

Options

-f (optional)

This option executes the deletion without confirmation.
If this option is omitted, a confirmation prompt will be output before the deletion takes place.

-id

This option specifies the template ID of the template information to be deleted.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_deletetemplate -id template-12c95768de8
Do you want to delete the template? (Y/N) y
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_deletetemplate -id template-12c95768de8
Do you want to delete the template? (Y/N) y
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

Chapter 3 Accounting Commands

This chapter explains the commands related to accounting.

3.1 ctchg_getmeterlog (Output Metering Logs)

Name

[Windows]

Installation directory for this product\RCXCTMG\Charging\bin\ctchg_getmeterlog -Output Metering Logs

[Linux]

/opt/FJSVctchg/bin/ctchg_getmeterlog.sh -Output Metering Logs

Synopsis

[Windows]

ctchg_getmeterlog [-start <*YYYY-MM-DD*> -end <*YYYY-MM-DD*>] [-event | -period] -outputfile <*metering log file*> [-overwrite] [-format <*format*>]

[Linux]

ctchg_getmeterlog.sh [-start <*YYYY-MM-DD*> -end <*YYYY-MM-DD*>] [-event | -period] -outputfile <*metering log file*> [-overwrite] [-format <*format*>]

Function description

- This command outputs metering logs as CSV files or XML files.

- It is recommended to backup the metering log regularly. Backup to other locations regularly using the task scheduler (Windows) or cron (Linux), etc.

- Determining the metering log may take some time, so execute the metering log output command at 01:00 or later on the day after the end day of the obtaining period.

Options

-start (optional)

Specifies the start day of the obtaining period

If the two parameters -start and -end are omitted, the metering log of the previous day will be output.

-end (optional)

Specifies the end day of the obtaining period

-event (optional)

Obtains the event log only

If -event and -period are omitted, both logs will be output.

-period (optional)

Obtains the periodic log only

-outputfile

Specifies the output file name

If a directory path is not included, the file will be created in the current directory.

-overwrite (optional)

If an output file with the same name already exists, it will be overwritten.

When this parameter is omitted, an error will be output if a file with the same name already exists.

-format (optional)

Specify csv or xml.

When this parameter is omitted, the metering log will be output as a csv file.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

📖 **Note**

. . . .

- To execute the command by the user other than the Infra administrator with OS administrator privilege, change the OS file system permissions manually.
  The required permissions are shown below.

[Windows]

No	Target file/directory	Required permissions
1	<Installation directory for this product>\RCXCTMG\Charging\bin	Read and execute
2	< Installation directory for this product>\RCXCTMG\Charging\bin\ctchg_getmeterlog.bat	Read and execute
3	<Installation directory for this product>\RCXCTMG\Charging\bin\meterlog.jar	Read
4	<Installation directory for this product>\RCXCTMG\Charging\conf	Read and execute
5	<Installation directory for this product>\RCXCTMG\Charging\conf\metering.properties	Read
6	<Installation directory for this product>\RCXCTMG\Charging\lib	Read and execute
7	<Installation directory for this product>\RCXCTMG\Charging\lib\log4j-1.2.15.jar	Read
8	< Installation directory for this product>\RCXCTMG\Charging\log	Read and execute
9	< Installation directory for this product>\RCXCTMG\Charging\log\ctchg_command.log	Read and write
10	< Installation directory for this product>\RCXCTMG\Charging\log \ctchg_command_debug.log	Read and write

[Linux]

No	Target file/directory	Required permissions
1	/opt/FJSVctchg/bin	Read and execute
2	/opt/FJSVctchg/bin/ctchg_getmeterlog.sh	Read and execute
3	/opt/FJSVctchg/bin/meterlog.jar	Read
4	/opt/FJSVctchg/lib	Read and execute
5	/opt/FJSVctchg/lib/log4j-1.2.15.jar	Read
6	/etc/opt/FJSVctchg/conf	Read and execute
7	/etc/opt/FJSVctchg/conf/metering.properties	Read

No	Target file/directory	Required permissions
8	/var/opt/FJSVctchg/log	Read and execute
9	/var/opt/FJSVctchg/log/ctchg_command.log	Read and write
10	/var/opt/FJSVctchg/log/ctchg_command_debug.log	Read and write

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\ctchg_getmeterlog
 -outputfile workfile
      (Output the metaring log of the previous day)
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\ctchg_getmeterlog
 -start 2010-04-01 -end 2010-04-01 -period -outputfile periodfile
      (Output the periodic log for April 1, 2010)
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\ctchg_getmeterlog
 -start 2010-04-01 -end 2011-03-31 -event -outputfile eventfile
      (Output the event log for the financial year 2011)
```

[Linux]

```
# /opt/FJSVctchg/bin/ctchg_getmeterlog.sh -outputfile workfile
      (Output the metaring log of the previous day)
# /opt/FJSVctchg/bin/ctchg_getmeterlog.sh -start 2011-04-01 -end 2011-04-01 -period -outputfile
periodfile
        (Output the periodic log for April 1, 2011)
# /opt/FJSVctchg/bin/ctchg_getmeterlog.sh -start 2011-04-01 -end 2012-03-31 -event -outputfile
eventfile
        (Output the event log for the financial year 2011)
```

Exit Status

This command returns the following values:

0

The command executed successfully.

1

An error has occurred.

2

A warning error has occurred.

3.2 ctchg_deletemeterlog (Delete Metering Logs)

Name

[Windows]

Installation directory for this product\RCXCTMG\Charging\bin\ctchg_deletemeterlog -Delete Metering Logs

[Linux]

/opt/FJSVctchg/bin/ctchg_deletemeterlog.sh -Delete Metering Logs

Synopsis

[Windows]

ctchg_deletemeterlog

[Linux]

ctchg_deletemeterlog.sh

Function description

This command deletes metering logs that were output before log entry retention period. The log entry retention period is set in the metering operational setting file.

![Note icon] **Note**

- - This command is used only in the disaster recovery operation.

- - Usually, it is not necessary to execute this command because metering logs, output before log entry retention period, are periodically deleted from the database.

- - Refer to "Deleting Metering Logs" in the "Operation Guide CE" for details.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\ctchg_deletemeterlog
```

[Linux]

```
# /opt/FJSVctchg/bin/ctchg_deletemeterlog.sh
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

3.3 ctchg_chgschedule (Change Periodic Log Schedule Settings)

Name

[Windows]

Installation directory for this product\RCXCTMG\Charging\bin\ctchg_chgschedule - Change Periodic Log Schedule Settings

[Linux]

/opt/FJSVctchg/bin/ctchg_chgschedule.sh - Change Periodic Log Schedule Settings

Synopsis

[Windows]

ctchg_chgschedule [-l]

[Linux]

ctchg_chgschedule.sh [-l]

Function description

This command changes the time and the frequency at which the periodic log is obtained.

Execute this command after setting the time and the frequency to be changed in the operational settings file for metering.

Refer to "Metering Settings" in the "Operation Guide CE" for details.

Options

-l (optional)

Specify this option to reference the current settings.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\ctchg_chgschedule
INFO: ctchg0102:Command succeeded.
```

[Linux]

```
# /opt/FJSVctchg/bin/ctchg_chgschedule.sh
INFO: ctchg0102:Command succeeded.
```

Exit Status

This command returns the following values:

0

The command executed successfully.

1

An error has occurred.

2

A warning error has occurred.

![Note icon] **Note**

. . . .

If the exit status is 0, the normal end message is as follows:

- When changing the schedule settings

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\ctchg_chgschedule
INFO: ctchg0102:Command succeeded.
```

- When referencing the schedule settings

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\ctchg_chgschedule -l
periodic_log_schesule_time=00:00
periodic_log_schedule_type=DAILY
INFO: ctchg0102:Command succeeded.
```

. . . .

3.4 productmaintain (Product Master Maintenance)

Name

[Windows]

Installation directory for this product\RCXCTMG\Charging\bin\productmaintain -Product Master Maintenance

[Linux]

/opt/FJSVctchg/bin/productmaintain.sh -Product Master Maintenance

Synopsis

[Windows]

productmaintain {import | export} <accounting information file name>

[Linux]

productmaintain.sh {import | export} <accounting information file name>

Function description

The following functions are provided for the management of product master accounting information.

- A function to register L-Platform template accounting information in the product master

- A function to output L-Platform template accounting information that has already been registered in the product master to the accounting information file

- [Product Master Registration]

    - The product master contents will be replaced with the contents of the accounting information file.

    - Specifying a size 0 file will delete the entire contents of the product master.

    - If an error occurs, all registration processes will be rendered invalid and the master will revert to its former state.

    - Any amounts for elements that make up the composition of an L-Platform that is not registered in the product master will be treated as \0.

- [Product Master Output]

    - If a file name that already exists is specified as the accounting information file name, it will be overwritten.

    - In the event that the product master contains no information, a file with size 0 will be output.

- [Information in common]

    - Refer to "Accounting Information File Format" in the "Operation Guide CE" for accounting information file.

- Manually set the OS file system authorizations in the event that a user other than a system administrator wishes to execute registration. The necessary authorizations are as listed below.

[Windows]

No	Target file/directory	Required permissions
1	<Installation directory for this product>\RCXCTMG\Charging\bin	Read and execute
2	<Installation directory for this product>\RCXCTMG\Charging\bin\productmaintain.bat	Read and execute
3	<Installation directory for this product>\RCXCTMG\Charging\bin\productmaintain.jar	Read
4	<Installation directory for this product>\RCXCTMG\Charging\lib	Read and execute
5	<Installation directory for this product>\RCXCTMG\Charging\lib\log4j-1.2.15.jar	Read
6	<Installation directory for this product>\RCXCTMG\Charging\conf	Read and execute
7	<Installation directory for this product>\RCXCTMG\Charging\conf\productmaintain.properties	Read
8	<Installation directory for this product>\RCXCTMG\Charging\log	Read and execute
9	<Installation directory for this product>\RCXCTMG\Charging\log\Productmaintain.log	Read and write
10	<Installation directory for this product>\RCXCTMG\Charging\log\Productmaintain_debug.log	Read and write

[Linux]

No	Target file/directory	Required permissions
1	/opt/FJSVctchg/bin	Read and execute
2	/opt/FJSVctchg/bin/productmaintain.sh	Read and execute
3	/opt/FJSVctchg/bin/productmaintain.jar	Read
4	/opt/FJSVctchg/lib	Read and execute
5	/opt/FJSVctchg/lib/log4j-1.2.15.jar	Read
6	/etc/opt/FJSVctchg/conf	Read and execute
7	/etc/opt/FJSVctchg/conf/productmaintain.properties	Read
8	/var/opt/FJSVctchg/log	Read and execute
9	/var/opt/FJSVctchg/log/Productmaintain.log	Read and write

No	Target file/directory	Required permissions
10	/var/opt/FJSVctchg/log/Productmaintain_debug.log	Read and write

....

Options

{import | export}

Specify the accounting information file name.

Accounting information file data is registered in the product master when import is specified.

Product master data is output to the accounting information file when export is specified.

The accounting information file name must be specified using the absolute path.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\productmaintain import C:\mmt.csv
    (Product Master Registration)
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\productmaintain export C:\mmt.csv
    (Product Master Output)
```

[Linux]

```
# /opt/FJSVctchg/bin/productmaintain.sh import ~/mmt.csv
    (Product Master Registration)
# /opt/FJSVctchg/bin/productmaintain.sh export ~/mmt.csv
    (Product Master Output)
```

Exit Status

This command returns the following values:

0

The command executed successfully.

1

An error has occurred.

2

A warning error has occurred.

3.5 currencyset (Change Currency Information Setting)

Name

[Windows]

Installation directory for this product\RCXCTMG\Charging\bin\currencyset -Change Currency Information Setting

[Linux]

/opt/FJSVctchg/bin/currencyset.sh -Change Currency Information Setting

Synopsis

[Windows]

currencyset { USD | JPY | EUR | SGD }

[Linux]

currencyset.sh { USD | JPY | EUR | SGD }

Function description

This command changes currency information. Default setting is USD ($).

🜲 **Note**
· ·

- Stop the manager software before executing this command.

- Do not change the currency information once you start the charging operation.

- For details on how to stop the manager, refer to "7.2 Starting and Stopping the Manager" of the "Setup Guide CE".

· ·

Options

{ USD | JPY | EUR | SGD }

Specify the three-letter currency code.

Currency code	Currency	Currency sign	Number of decimal places
USD	United States Dollar	$	2
JPY	Japanese Yen	¥	0
EUR	Euro	EUR	2
SGD	Singapore dollar	S$	2

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Charging\bin\currencyset EUR
```

[Linux]

```
# /opt/FJSVctchg/bin/currencyset.sh EUR
```

Exit Status

This command returns the following values:

0

    The command executed successfully.

1

    An error has occurred.

Chapter 4 Access Authority Customize Commands

This chapter explains about commands relating to the customization of access authority.

4.1 ctac_getauthority (Acquiring Information about Access Authority)

Name

[Windows]

Installation directory for this product\RCXCTMG\SecurityManagement\bin\ctac_getauthority -Acquiring Information about Access Authority

[Linux]

/opt/FJSVctsec/bin/ctac_getauthority.sh -Acquiring Information about Access Authority

Synopsis

[Windows]

ctac_getauthority -r <*role name*> -f <*output file name*> [-o]

[Linux]

ctac_getauthority.sh -r <*role name*> -f <*output file name*> [-o]

Function description

Information about L-Platform access authority for tenant users and tenant administrators is output as XML files.

The file format for access authority information is as indicated below.

- The character code is UTF-8.

- Files are output in XML format.

The output format for access authority information files is indicated below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<AccessAuthoritySet>
    <AccessAuthority>
        <RoleName>Rolll Name</RoleName>
        <ActionSet>
            <Allow>
                <Action>Action ID</Action>
                ...
            </Allow>
            <NotAllow>
                <Action>Action ID</Action>
                ...
            </NotAllow>
        </ActionSet>
    </AccessAuthority>
</AccessAuthoritySet>
```

A description of each tag is provided below.

Tag name	Description
RoleName	Outputs the role name of the acquisition target.
Allow	Outputs the allowed action ID to the lower tag.

Tag name	Description
NotAllow	Outputs the disallowed action ID to the lower tag.
Action	Outputs the action ID.

Refer to "Table 4.1 Default values of the Action IDs versus each Role" of the action IDs.

Options

-r

Specify one of the following two role names for the acquisition target:

- tenant_admin

- tenant_user

-f

Specify the output file name.

If the directory path is not included, this will be created in the current directory.

-o (optional)

If an output file with the same name already exists, it will be overwritten.

An error will be output if this parameter is omitted and a file with the same name already exists.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

This is the coding for acquiring access authority information for tenant users.

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\SecurityManagement\bin\ctac_getauthority
 -r tenant_user -f out.xml
```

[Linux]

```
# /opt/FJSVctsec/bin/ctac_getauthority.sh -r tenant_user -f out.xml
```

Exit Status

This command returns the following values:

0

The command executed successfully.

2

An error has occurred.

4.2 ctac_updauthority (Access Authority Modification)

Name

[Windows]

Installation directory for this product\RCXCTMG\SecurityManagement\bin\ctac_updauthority -Access Authority Modification

[Linux]

/opt/FJSVctsec/bin/ctac_updauthority.sh -Access Authority Modification

Synopsis

[Windows]

ctac_updauthority -f <access authority information file>

ctac_updauthority -r <*Role name*> -a <action ID of modification target> -p <Allow/deny status of specified operation>

[Linux]

ctac_updauthority.sh -f <access authority information file>

ctac_updauthority.sh -r <*Role name*> -a <action ID of modification target> -p <Allow/deny status of specified operation>

Function description

Modifies L-Platform access authority for tenant users and tenant administrators.

🇬 Note
. . . .

Before executing the command, perform one of following procedure to prevent operations be done from L-Platform Management page.

- Separate the admin server from the external networks.

- Stop following Web servers.

    - RCXCT-ext

    - RCXCT-ext2

If not, the authorities of the users will be updated immediately, and the behavior of some operations on the L-Platform Management page may change during its procedure.

. . . .

Options

-f

Specify the access authority information file. Customize the access authority for access authority information files acquired using the access authority information acquisition command and specify.

🇬 Note
. . . .

Action IDs in access authority information file cannot be omitted.

. . . .

-r

Specify target role from one of the following two roles:

- tenant_admin

- tenant_user

-a

Specify the action ID of the modification target.

Default values of the Action IDs versus each Role are defined in the "Table 4.1 Default values of the Action IDs versus each Role".

Table 4.1 Default values of the Action IDs versus each Role

Action ID	Details	Default Access Setting	
		Tenant administrator	Tenant user
SystemDesign	L-Platform subscription operation in L-Platform management. The L-Platform subscription menu will display if this operation is allowed.	Yes	Yes
ResourceDesign	Reconfiguration operation in L-Platform management. The Reconfiguration page can be displayed by clicking the Reconfiguration button on the L-Platform details page if this operation is allowed.	Yes	Yes
ResourceDelete	Cancel operation in L-Platform management. The Check L-Platform page can be displayed by clicking the Cancel L-Platform button on the L-Platform details page if this operation is allowed.	Yes	Yes
InstanceStart	Operation for single server startup and batch server power supply startup in L-Platform management. Single or batch startup of servers can be performed if this operation is allowed.	Yes	Yes
InstanceStop	Operation for single server shutdown or batch server power supply shutdown in L-Platform management. Single or batch shutdown of servers can be performed if this operation is allowed.	Yes	Yes
ImageExec	Operation to extract virtual server snapshot in L-Platform management. Virtual server snapshots can be extracted if this operation is allowed.	Yes	Yes
	Operation to backup physical servers in L-Platform management. Physical server backups can be extracted if this operation is allowed.	Yes	Yes
	Operation to extract server images in L-Platform management. Server images can be extracted if this operation is allowed.	Yes	No
ImageRestore	Operation to restore virtual server snapshot in L-Platform management.	Yes	Yes

Action ID	Details	Default Access Setting	
		Tenant administrator	Tenant user
	The virtual server snapshot can be restored if this operation is allowed.		
	Operation to restore physical server backup in L-Platform management. Physical server backup can be restored if this operation is allowed.	Yes	Yes
ImageDelete	Operation to delete virtual server snapshot in L-Platform management. The virtual server snapshot can be deleted if this operation is allowed.	Yes	Yes
	Operation to delete physical server backups in L-Platform management. Physical server backups can be deleted if this operation is allowed.	Yes	Yes
FirewallDesign	Operation to modify parameter values for the firewall rule set. Firewall settings can be performed if this operation is allowed.	Yes	Yes
TimeSeriesAnalysis_EventLogDisplay	Operation to refer event log in the L-Platform Management page. Event Log menu will be displayed if this operation is allowed.	Yes	Yes

Yes: Default authority "on" and can be updated by command.

No: Default authority "off" and cannot be updated.

-p

Specifies whether the specified operation is allowed or denied.

- on: Allowed

- off: Denied

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

- This is the coding to specify an access authority information file and modify the authority.

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\SecurityManagement\bin\ctac_updauthority
 -f in.xml
```

[Linux]

```
# /opt/FJSVctsec/bin/ctac_updauthority.sh -f in.xml
```

- This is the coding to invalidate L-Platform reconfiguration operations and event log reference operations for tenant users.

    [Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\SecurityManagement\bin\ctac_updauthority
 -r tenant_user -a ResourceDesign -p off
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\SecurityManagement\bin\ctac_updauthority
 -r tenant_user -a TimeSeriesAnalysis_EventLogDisplay -p off
```

    [Linux]

```
# /opt/FJSVctsec/bin/ctac_updauthority.sh -r tenant_user -a ResourceDesign -p off
# /opt/FJSVctsec/bin/ctac_updauthority.sh -r tenant_user -a TimeSeriesAnalysis_EventLogDisplay
-p off
```

Exit Status

This command returns the following values:

0

The command executed successfully.

2

An error has occurred.

Chapter 5 Maintenance Commands

This chapter describes the commands for maintenance.

5.1 cfmg_listhostnamecounter (Display List of Serial Numbers for Host Name Settings)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_listhostnamecounter -Display List of Serial Numbers for Host Name Settings

[Linux]

/opt/FJSVcfmg/bin/cfmg_listhostnamecounter -Display List of Serial Numbers for Host Name Settings

Synopsis

cfmg_listhostnamecounter

Functional Description

This command displays a list of serial numbers for the host names that are being managed.

The serial numbers that are displayed will be the next numbers to be added.

If the serial numbers exceed this, "---" will be displayed.

Refer to "Setting the Host Names for Virtual Servers" in the "Operation Guide CE" for details.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_listhostnamecounter
<?xml version="1.0" encoding="Windows-31J"?>
<result>
        <counter>
                <key>div01</key>
                <count>2</count>
        </counter>
</result>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_listhostnamecounter
<?xml version="1.0" encoding="UTF-8"?>
```

```
<result>
        <counter>
                <key>div01</key>
                <count>2</count>
        </counter>
</result>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.2 cfmg_resethostnamecounter (Reset Serial Numbers for Host Name Settings)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_resethostnamecounter -Reset Serial Numbers for Host Name Settings

[Linux]

/opt/FJSVcfmg/bin/cfmg_resethostnamecounter -Reset Serial Numbers for Host Name Settings

Synopsis

cfmg_resethostnamecounter -key <*key name*> | -all

Functional Description

This command resets the serial numbers for the host names that are being managed.

Refer to "Setting the Host Names for Virtual Servers" in the "Operation Guide CE" for details.

 Note

. . . .

- If a reset is executed, the serial numbers will return to 1.

- If the serial numbers have been reset, even if a serial number has already been used, server deployment will be performed using the
  same host name.

. . . .

Options

-key

Specifies the key name to be reset. The cfmg_listhostnamecounter (Display List of Serial Numbers for Host Name Settings) command
can be used to display the key names.

-all

Resets all of the serial numbers.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_resethostnamecounter
```

[Linux]

```
# opt/FJSVcfmg/bin/cfmg_resethostnamecounter
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.3 cfmg_importlserver (Import L-Server)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_importlserver -Import L-Server

[Linux]

/opt/FJSVcfmg/bin/cfmg_importlserver -Import L-Server

Synopsis

cfmg_importlserver -user <*user ID*> -org <*tenant name*> -lserver <*L-Server name*>
[-image <*cloning image ID*>] [-os <*software ID*>] [-vmpool <*VM pool name*>] [-storagepool <*storage pool name*>] [-host <*host name*>]

Functional Description

This command imports the L-Server with the specified L-Server name as an L-Platform.

📑 **Note**

. . . .

- Only one server can be imported for one L-Platform.

- An L-Platform template that has been generated by this command will not be displayed in the **Template Management** window.

- Specifying the -a option in the 2.13 cfmg_listtemplate (Displaying Template Information List) command or the 2.5 cfmg_listimageinfo (Displaying Image Information List) command will allow an L-Platform template that has been generated by this command to be displayed.

- Data disks with two disk indexes cannot be imported.

- L-Servers without network interface cards (NICs) cannot be imported.

- An L-Server that exists under a tenant cannot be imported to another tenant.

- If an L-Server exists in a location other than under a tenant folder is to be imported, the power of the L-Server to be imported must be switched off.

Options

-user

Specifies the user ID to be set in the L-Platform to be imported.

-org

Specifies the tenant ID to be set in the L-Platform to be imported.

-lserver

Specifies the L-Server name of the L-Server targeted to be imported.

If the L-Server exists under a folder, it must be specified using an absolute path.

Only L-Servers that are under folders up to the first level can be imported.

If an L-Server that is under a folder that is second level or higher is to be imported, use the ROR Console in Resource Management to move the L-Server to a position that is at first level or lower in advance.

If the L-Server is to exist directly under the root directory, the first "/" can be omitted.

-image (optional)

Specifies the image ID if image information is to be set in the L-Server to be imported.

If this option has not been specified, default image information will be used.

To manage software information or patch information, use the 2.6 cfmg_addimageinfo (Registering Image Information) command to register the image information in advance, and then specify it in this command.

If a cloning image does not exist, specify the -n option in the 2.6 cfmg_addimageinfo (Registering Image Information) command to register image information.
If ordinary image information has been specified, to delete it, the L-Platform that has been imported must be returned.

-os (optional)

Specifies the software ID of the software information of the operating system to be set in the L-Server to be imported.

If the -image option has been specified, this option will be ignored even if it is specified.

Software information other than that of the operating system cannot be specified.

If both this option and the -image option have been omitted, the software ID [SW00000001] information will be set.

The default will be the following operating system information:

[Windows Server 2008 Standard (32bit)]

The 2.1 cfmg_listsoft (Displaying Software Information List) command can be used to reference the software IDs.

-vmpool (optional)

Specifies the VM pool name to be set in the L-Server to be imported.

The VM pool name must be specified using an absolute path.

Example: /VMPool

If this option has not been specified, a VM pool name will not be set.

If the metering function is being used and this option has not been specified, metering calculations cannot be performed for CPU and memory in relation to the VM pool.

-storagepool (optional)

Specifies the storage pool name to be set in the L-Server to be imported.

The storage pool name must be specified using an absolute path.

Example: /StoragePool

If there are a number of disks, specify the storage pool names in order of disk number, with each delimited by a comma.

If the number of disks is larger than that of the specified storage pool names, the storage pool name specified at the end will be set for the excess disks.

If this option has not been specified, a storage pool name will not be set.

If the metering function is being used and this option has not been specified, metering calculations cannot be performed for disks in relation to the storage pool.

-host (optional)

Specifies the host name to be set in the L-Server to be imported.

If this option has not been specified, a host name will be generated automatically according to the host name generation method.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_importlserver -user user3 -org div3 -
lserver lsv3
<?xml version="1.0" encoding="Windows-31J"?>
<result>
        <templateId>template-12fe41c4b58</templateId>
        <vsysId>div3-WCJHJJO0R</vsysId>
</result>
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_importlserver -user user3 -org div3 -lserver lsv3
<?xml version="1.0" encoding="UTF-8"?>
<result>
        <templateId>template-12fe41c4b58</templateId>
        <vsysId>div3-WCJHJJO0R</vsysId>
</result>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.4 cfmg_deletesysdata (Unnecessary Data Deletion)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_deletesysdata -Unnecessary Data Deletion

[Linux]

/opt/FJSVcfmg/bin/cfmg_deletesysdata -Unnecessary Data Deletion

Synopsis

cfmg_deletesysdata [-f] [-n] -id *<L-Platform ID>*
cfmg_deletesysdata [-f] [-n] -id *< L-Platform ID >* -sid *<server ID>*

Functional Description

This command can delete unnecessary data of L-Platform or server remaining on the L-Platform management function in the event that an L-Platform or server(s) deployed on the L-Platform management window is erroneously deleted using the ROR console or virtualization software such as VMware.

Options

-f (optional)

No enquiry is performed.

-n (optional)

No existence check is performed.

-id

Specifies the L-Platform ID of the deletion target.

-sid

Specifies the server ID of the deletion target.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_deletesysdata -id div1-7NN3BLVA4 -sid WEB1
Do you want to delete the L-Platform ? (Y/N) y
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_deletesysdata -id div1-7NN3BLVA4 -sid WEB1
Do you want to delete the L-Platform ? (Y/N) y
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.5 recoverService (Disable L-Platform Application)

Name

[Windows]

Installation directory for this product\RCXCTMG\MyPortal\bin\recoverService -Disable L-Platform Application

[Linux]

/opt/FJSVctmyp/bin/recoverService.sh -Disable L-Platform Application

Synopsis

[Windows]

recoverService L-Platform ID

[Linux]

recoverService.sh L-Platform ID

Function explanation

This command allows the L-Platform specified using the L-Platform ID to be canceled again.

This command can only be executed for an L-Platform that resulted in an error while cancelling it or is currently undergoing an application to cancel it.

If the L-Platform ID of an L-Platform template undergoing a configuration saves has been specified, the relevant L-Platform template undergoing a configuration save will be deleted.

If other than the L-Platform ID of an L-Platform template undergoing a configuration save or of an L-Platform undergoing an application to cancel L-Platform has been specified, an L-Platform Management function error will be returned.

Options

L-Platform-ID

Specifies the L-Platform ID of the L-Platform that is to be allowed to be canceled again.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Myportal\bin\recoverService <L-Platform ID>
```

[Linux]

```
/opt/FJSVctmyp/bin/recoverService.sh <L-Platform ID>
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

🕮 **Note**

. . . .

- If <L-Platform ID> is not specified or if two or more are specified, the following error message will be displayed. The exit status will be 1:

[Windows]

```
[recoverService] ctmyp1005: Required parameter is missing.
Usage: recoverService.bat L-Platform-ID
```

[Linux]

```
[recoverService] ctmyp1005: Required parameter is missing.
Usage: recoverService.sh L-Platform-ID
```

- If the exit status is 0, a message notifying normal end is displayed.

```
Command succeeded.
```

- If the exit status is not 0, a message notifying abnormal end is displayed.

  - If connection with the L-Platform Management function failed

```
VSYS error:
VSYS connection failed.
```

- If an error was returned from the L-Platform Management function

```
VSYS error:
<Contents of L-Platform Management function error>
```

5.6 recoverAllService (Disable L-Platform Application)

Name

[Windows]

Installation directory for this product\RCXCTMG\MyPortal\bin\ recoverAllService -Disable L-Platform Application

[Linux]

/opt/FJSVctmyp/bin/recoverAllService.sh -Disable L-Platform Application

Synopsis

[Windows]

recoverAllService

[Linux]

recoverAllService.sh

Functional Description

When resources are restored from data created by online backup, some unneeded L-Platform applications may remain.
In that case, use this command to nullify these applications.
This command will nullify all the pending L-Platform applications.
Using such as Information in the Home window, notify the tenant administrator and tenant users to submit their pending L-Platform applications again because they have been nullified.
Refer to "Editing Information in the Home Window" in the "Operation Guide CE" for details.
This operation is not needed if only offline backup has been performed.
To use this command, the manager software must be running.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\Myportal\bin\recoverAllService
SUBSCRIPTION,SE0C92RW,admin01,SE0C92RW-R7CMAALFU,RHEL5_x86_SimpleType test01
SUBSCRIPTION,SE0C92RW,user01,SE0C92RW-Q6CVNE3XQ,user01 direct application
SUBSCRIPTION,RKUVRN9I,ctuser01,RKUVRN9I-4KOI076TF,st_recover5_forChangeSpec_2_10_dentest2
SUBSCRIPTION,TSM0X72G,user03,TSM0X72G-7NS07C0M5,windows2008
SUBSCRIPTION,0JFIHRXO,user04,0JFIHRXO-T9E4JHHXU,RHEL55x64_NIC4
SUBSCRIPTION,TSM0X72G,user03,TSM0X72G-VBG4XA7E2,service1
SUBSCRIPTION,TSM0X72G,user03,TSM0X72G-XDHP35MWX,service2
RECONFIGURATION,0JFIHRXO,admin01,0JFIHRXO-S8EA4MQU0,RHEL5_x86_SimpleType3
SUBSCRIPTION,0JFIHRXO,user02,0JFIHRXO-1HN6VXPEV,user02 application
UNSUBSCRIPTION,SE0C92RW,user04,SE0C92RW-Q6CVOYK9J,no specifications change
recovered service : 10
```

[Linux]

```
# /opt/FJSVctmyp/bin/recoverAllService.sh
SUBSCRIPTION,SE0C92RW,admin01,SE0C92RW-R7CMAALFU,RHEL5_x86_SimpleType test01
SUBSCRIPTION,SE0C92RW,user01,SE0C92RW-Q6CVNE3XQ,user01 direct application
SUBSCRIPTION,RKUVRN9I,ctuser01,RKUVRN9I-4KOI076TF,st_recover5_forChangeSpec_2_10_dentest2
SUBSCRIPTION,TSM0X72G,user03,TSM0X72G-7NS07C0M5,windows2008
SUBSCRIPTION,0JFIHRXO,user04,0JFIHRXO-T9E4JHHXU,RHEL55x64_NIC4
SUBSCRIPTION,TSM0X72G,user03,TSM0X72G-VBG4XA7E2,service1
SUBSCRIPTION,TSM0X72G,user03,TSM0X72G-XDHP35MWX,service2
RECONFIGURATION,0JFIHRXO,admin01,0JFIHRXO-S8EA4MQU0,RHEL5_x86_SimpleType3
SUBSCRIPTION,0JFIHRXO,user02,0JFIHRXO-1HN6VXPEV,user02 application
UNSUBSCRIPTION,SE0C92RW,user04,SE0C92RW-Q6CVOYK9J,no specifications change
recovered service : 10
```

Exit Status

This command returns the following values:

0

    The command executed successfully.

non-zero

    An error has occurred.

Note

. . . .

- If the exit status is 0, a message notifying normal end is displayed.

```
<Application type>, <tenant name>, <owner (user)>, <VSYS-ID>, <L-Platform name>
recovered service : <Number of restored L-Platforms>
```

The application types are as follows:

SUBSCRIPTION (Application to use)

RECONFIGURATION (Specification change)

UNSUBSCRIPTION (Cancellation)

- If the exit status is 1, a message notifying abnormal end is displayed.

    - If connection with the L-Platform Management function failed

    ```
    VSYS error:
    VSYS connection failed.
    ```

    - If an error was returned from the L-Platform Management function

    ```
    VSYS error:
    <Contents of L-Platform Management function error>
    ```

5.7 ctmg_collectinfo (Collection of Investigation Data)

Name

[Windows]

Installation directory for this product\RCXCTMG\bin\ctmg_collectinfo -Collection of Investigation Data

[Linux]

/opt/FJSVctmg/bin/ctmg_collectinfo.sh -Collection of Investigation Data

Synopsis

[Windows]

ctmg_collectinfo [-noperf] directory

[Linux]

ctmg_collectinfo.sh [-noperf] directory

Functional Description

ctmg_collectinfo collects investigation data for the management server of this product.

Before requesting a problem investigation, collect investigation data with this command.

Note

- When the settings have not changed from initial values, the disk space needed to collect data is about 300M bytes. Because changes in system configuration and settings may require more disk space, prepare enough space on the disk to store the data.

- When you specify a folder or a directory, keep the following point in mind.

    - Specify the name of the directory to store data in not more than 46 bytes. If a name more than 46 bytes was specified, some information could be inaccurate.

- When the file was changed during collection, collection may fail with the message "file changed as we read it". In that case, re-execute the command.

Options

-noperf (optional)

Specify when omitting investigation information of dashboard function and activity status function to decrease the total amount of the output.

directory

Specify the directory name to store investigation data of this product for directory.

A directory path that includes spaces cannot be specified.

If the specified directory does not exist, it will be created automatically.

If the specified directory contains a file or a subdirectory that has the same name with one of the investigation data files, it will be overwritten.

Requirements

Permissions

System administrator

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\bin\ctmg_collectinfo c:\info
```

[Linux]

```
# /opt/FJSVctmg/bin/ctmg_collectinfo.sh /tmp/info
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.8 ctmg_resetbackuperror (Recover Base Backup Error)

Name

[Windows]

Installation directory for this product\RCXCTMG\bin\ctmg_resetbackuperror -Recover Base Backup Error

[Linux]

/opt/FJSVctmg/bin/ctmg_resetbackuperror.sh -Recover Base Backup Error

Synopsis

[Windows]

ctmg_resetbackuperror

[Linux]

ctmg_resetbackuperror.sh

Functional Description

This command recovers base backup error, when following operation is done during taking base backup by online backup of the management server.

- Force-quit by Ctrl+C during backup command

- Shutdown of the manager during backup command

Requirements

Permissions

System administrator

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCTMG\bin\ctmg_resetbackuperror
Successfully reset the base-backup error.
```

[Linux]

```
# /opt/FJSVctmg/bin/ctmg_resetbackuperror.sh
Successfully reset the base-backup error.
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

🛐 Note

- This command will end successfully even if there is no error to recover.

- If the exit status is 0, a message notifying normal end is displayed.

```
Successfully reset the base-backup error.
```

- If the exit status is not 0, a message notifying abnormal end is displayed.

```
Failed to reset the base-backup error.
```

5.9 cfmg_exportconfig (Export Configuration Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_exportconfig -Export Configuration Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_exportconfig -Export Configuration Information

Synopsis

cfmg_exportconfig -dir <*output directory*>

Functional Description

Template information and L-Platform configuration information managed by the L-Platform management function are output to the specified output directory.

Multiple subdirectories are created within the output directory, and multiple files are output.

When importing configuration information using "cfmg_importconfig", the subdirectories and files below the specified output directory must be arranged in the specified input directory such that no modifications are made to the configuration of said subdirectories and files.

Messages of the beginning and the result of command execution are output to the log.

Note

Refer to "1.2 Log Output of Disaster Recovery Commands" for information on log output.

Options

-dir

Specifies the directory for configuration information output.

Please specify an existing empty directory.

Requirements

Permissions

System administrator

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_exportconfig -dir D:\dr_dir
Exported SOFTWARE.
Exported SOFTWARESETUP.
Exported PARAMETER.
Exported IMAGE.
Exported NETWORK.
Exported TEMPLATE.
Exported DEPLOY_MASTER.
Exported INSTANCE.
Exported EVENT.
Exported BACKUP_RESTORE.
Exported LOGIN_USER.
Exported other.
Completed export.
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_exportconfig -dir /var/dr_dir
Exported SOFTWARE.
Exported SOFTWARESETUP.
Exported PARAMETER.
Exported IMAGE.
Exported NETWORK.
Exported TEMPLATE.
Exported DEPLOY_MASTER.
Exported INSTANCE.
Exported EVENT.
Exported BACKUP_RESTORE.
Exported LOGIN_USER.
Exported other.
Completed export.
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.10 cfmg_importconfig (Import Configuration Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_importconfig -Import Configuration Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_importconfig -Import Configuration Information

Synopsis

cfmg_importconfig [-global | -tenant <*tenant name*>] -dir <*directory*>
cfmg_importconfig -sync

Functional Description

This command registers template information and L-Platform configuration information exported by cfmg_exportconfig in the database.

Simultaneously, this command updates resource IDs managed by L-Platform management function to the same value as resource IDs managed by Resource management function.

It is not possible to re-import configuration information that has already been imported, such as when importing global configuration information multiple times or when importing the same tenant's configuration information multiple times.

Messages of the beginning and the result of command execution are output to the log.

In the environment that has been recovered by Disaster Recovery,

this command also outputs information to the log about L-Platforms that may need some action.

For details about the action, Refer to "1.2 Log Output of Disaster Recovery Commands" for information on log output.

Options

-global (optional)

Extracts the global configuration information from the configuration information within the specified directory and registers it in the database.

When both '-global' and '-tenant' are omitted, all configuration information is registerd.

Cannot be specified at the same time as '-tenant' and/or '-sync'.

-tenant (optional)

Extracts the specified tenant's configuration information from the configuration information within the specified directory and registers it in the database.

When both '-global' and '-tenant' are omitted, all configuration information is registerd.

Cannot be specified at the same time as '-global' and/or '-sync'.

-dir

Specifies the storage directory for the configuration information.

-sync

This option is specified to do only updating resource IDs.

Requirements

Permissions

System administrator

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_importconfig -dir D:\dr_dir
Imported cfmgadm.
Imported tenant_a.
Completed import.
Completed synchronization.
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_importconfig -dir /var/dr_dir
Imported cfmgadm.
Imported tenant_a.
Completed import.
Completed synchronization.
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.11 cfmg_deleteconfig (Delete All Configuration Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_deleteconfig -Delete All Configuration Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_deleteconfig -Delete All Configuration Information

Synopsis

cfmg_deleteconfig [-f]

Functional Description

This command deletes all the template information and the L-Platform configuration information managed by the L-Platform management function.

Messages of the beginning and the result of command execution are output to the log.

 Note
. . . .

Refer to "1.2 Log Output of Disaster Recovery Commands" for information on log output.
. . . .

Options

-f (optional)

This option executes the deletion without confirmation.

If this option is omitted, a confirmation prompt will be output before the deletion takes place.

Requirements

Permissions

    System administrator

Location

    Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_deleteconfig
Do you want to delete all configuration information ? (Y/N) y
Deleted SOFTWARE.
Deleted SOFTWARESETUP.
Deleted PARAMETER.
Deleted IMAGE.
Deleted NETWORK.
Deleted TEMPLATE.
Deleted DEPLOY_MASTER.
Deleted INSTANCE.
Deleted EVENT.
Deleted BACKUP_RESTORE.
Deleted LOGIN_USER.
Deleted other.
Completed deletion.
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_deleteconfig
Do you want to delete all configuration information ? (Y/N) y
Deleted SOFTWARE.
Deleted SOFTWARESETUP.
Deleted PARAMETER.
Deleted IMAGE.
Deleted NETWORK.
Deleted TEMPLATE.
Deleted DEPLOY_MASTER.
Deleted INSTANCE.
Deleted EVENT.
Deleted BACKUP_RESTORE.
Deleted LOGIN_USER.
Deleted other.
Completed deletion.
```

Exit Status

This command returns the following values:

0

    The command executed successfully.

non-zero

    An error has occurred.

5.12 cmdbrefresh (Refresh Configuration Information of System Condition)

Name

[Windows]

Installation directory for this product\SWRBAM\CMDB\FJSVcmdbm\bin\cmdbrefresh -Refresh Configuration Information of System Condition

[Linux]

/opt/FJSVcmdbm/bin/cmdbrefresh.sh -Refresh Configuration Information of System Condition

Synopsis

[Windows]

cmdbrefresh -a -q

[Linux]

cmdbrefresh.sh -a -q

Functional Description

This command refreshes the configuration information displayed in system condition view.

This command is used for disaster recovery procedure or restoring of backup data.

The configuration information that was managed on the backup site before the recovery data is imported is kept.

Options

-a

Update all.

-q

Update configuration information.

📑 Note

. . . .

Specify both -a and -q.

. . . .

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\SWRBAM\CMDB\FJSVcmdbm\bin\cmdbrefresh -a -q
```

```
# /opt/FJSVcmdbm/bin/cmdbrefresh.sh -a -q
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

📙 **Note**

The command returns immediately when the update begins and does not wait for the asynchronous update to complete.

The end of update can be seen in event log or system log with the following six messages.

The time for the update depends on the number of VMs and it takes tens of minutes or less to complete the update.

[Windows]

event log

Level	Source	Event ID	Message
information	FCMDB	10004	Update check processing has started. 'MDR Service for Software Configuration Manager'
information	FCMDB	10004	Update check processing has started. 'MDR Service for SQC'
information	FCMDB	10004	Update check processing has started. 'MDR Service for ROR'
information	FCMDB	10005	Update check processing has completed. 'MDR Service for Software Configuration Manager'
information	FCMDB	10005	Update check processing has completed. 'MDR Service for SQC'
information	FCMDB	10005	Update check processing has completed. 'MDR Service for ROR'

[Linux]

system log

Message
Update check processing has started. 'MDR Service for Software Configuration Manager'
Update check processing has started. 'MDR Service for SQC'
Update check processing has started. 'MDR Service for ROR'
Update check processing has completed. 'MDR Service for Software Configuration Manager'
Update check processing has completed. 'MDR Service for SQC'
Update check processing has completed. 'MDR Service for ROR'

5.13 cfmg_syncdiskinfo (Synchronize Disk Information)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_syncdiskinfo -Synchronize Disk Information

[Linux]

/opt/FJSVcfmg/bin/cfmg_syncdiskinfo -Synchronize Disk Information

Synopsis

cfmg_syncdiskinfo

Functional Description

When a disk attached to a physical L-Server has been changed by a switchover of operating or standby status of storage, this command adjusts the L-Platform configuration information to the changed disk information.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_syncdiskinfo
Completed synchronization.
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_syncdiskinfo
Completed synchronization.
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

5.14 cfmg_deletelplatform(Delete L-Platform)

Name

[Windows]

Installation directory for this product\RCXCFMG\bin\cfmg_deletelplatform - Delete L-Platform

[Linux]

/opt/FJSVcfmg/bin/cfmg_deletelplatform - Delete L-Platform

Synopsis

cfmg_deletelplatform [-f] -id L-Platform ID

Functional Description

This command deletes an L-Platform whose cancellation has resulted in an error.

Because the operation is conducted without waiting for returns to be completed, errors that occur during the operation will not be output to the event log and the log file.

Check the **Resource** window to confirm if returns were completed normally.

Options

-f (optional)

Do not perform an inquiry.

-id

Specify the L-Platform ID for deletion.

Requirements

Permissions

Infra administrator with OS administrator privilege

Location

Admin server

Example

[Windows]

```
C:\Users\Administrator> C:\Fujitsu\ROR\RCXCFMG\bin\cfmg_deletelplatform -id div1-7NN3BLVA4
Are you sure to delete the L-Platform? (Y/N) y
```

[Linux]

```
# /opt/FJSVcfmg/bin/cfmg_deletelplatform -id div1-7NN3BLVA4
Are you sure to delete the L-Platform? (Y/N) y
```

Exit Status

This command returns the following values:

0

The command executed successfully.

non-zero

An error has occurred.

Part 2   File Reference

This section describes the files to be used for input when the various commands provided by this product are used.

Chapter 6 XML File

This chapter describes XML files.

6.1 Software Information

This section explains the software information manipulation commands.

You can use already registered software information.

Refer to "Appendix A Registered Software IDs" for details.

6.1.1 Overview of Software Information

Software information files are XML documents that list configuration information for the software (operating system) included in a cloning image.

Create and register one software information file for each item of software.

Software information for operating systems is included with the products, so infra administrators will not usually need to create software information.

Refer to "Appendix A Registered Software IDs" for information on the software information included with this product.

If information such as license information is required, the infra administrator must modify the file contents.

Refer to "6.1.2 File Information Details" for a description of items (tags).

New software information will need to be created when registering software such as OSS.

Infra administrators must take this model into account when performing creation.

The software information model is stored in the following directory:

[Windows]

```
Storage directory: <Installation directory for this product>\templates\softwares\
```

[Linux]

```
Storage directory: /opt/FJSVcfmg/templates/softwares/
```

6.1.2 File Information Details

Software information files use the following XML format:

```
<?xml version="1.0" encoding="UTF-8" ?>
<software version="2.0">
    <id>[Software ID]</id>
    <lcid>[Locale ID]</lcid>
    <name>[Software name]</name>
    <ownerOrg>[Owner (tenant)]</ownerOrg>
    <ownerUser>[Owner (user)]</ownerUser>
    <category>[Software category]</category>
    <osCategory>[Operating system category]</osCategory>
    <version>[Version]</version>
    <officialVersion>[Official version]</officialVersion>
    <patch>[Patch version number]</patch>
    <license>[License]</license>
    <support>[Support]</support>
    <productId>[Model number]</productId>
</software>
```

The following table shows descriptions of each of these items (tags), as well as their settings:

Modify software information files if necessary, by referring to the information in this table.

Tag names in square brackets [ ] can be omitted.

Tag name	Format	Setting range	Description	Mand atory	Settings
[id]	-	-	The ID allocated when the software information was registered.	No	No value is specified at new creation.
[lcid]	string ASCII	Fixed value	The locale for the software information.	Yes	The value is fixed as "en"
[name]	string UTF-8	Up to 85 characters	The name of the software. Specify this item when registering software information.	Opti onal	
ownerOrg	String ASCII	Fixed value	The tenant name to which the software belongs.	Yes	The value is fixed as "cfmgadm".
ownerUser	String ASCII	Fixed value	The user ID of the user registering the software.	Yes	The value is fixed as "cfmgadm".
category	string ASCII	Select an option	The category of the software.	Yes	Select one of the following options: - "OS": Operating system - "MIDDLE": Middleware - "APP": Application
osCategory	string ASCII	Select an option	The category of the software.	Yes	Select one of the following options: - "windows": Windows - "linux": Linux - "windows64": Windows (64 bit) - "linux64": Linux (64 bit)
version	string ASCII	1 to 10 Bytes	The software version.	Yes	Specify the version. (Example) 9.2.0
officialVersion	-	-	The official version.	No	
patch	-	-	Patch information.	No	Specify information about the patches that have been applied in the image information files.
license	string UTF-8	Up to 85 characters	License information for the software.	Opti onal	If "OS" was selected for the category item, specify the product key for the Windows operating system. Specification cannot be done if the OS is Linux. - When the virtualization software is VMware For Windows Server 2003, specify the product key for the Windows operating system. (Example) XXXXX-XXXXX-XXXXX-XXXXX-XXXXX If the operating system is one other than Windows Server 2003, specify an empty string. - When the virtualization software is Hyper-V Specify the product key for the Windows operating system.

Tag name	Format	Setting range	Description	Mand atory	Settings
					(Example) XXXXX-XXXXX-XXXXX-XXXXX-XXXXX When the virtualization software is RHEL-KVM, specification cannot be done.
support	string UTF-8	Up to 85 characters	Support information for the software.	Opti onal	
productId	-	-	The software product ID.	No	

The meanings of the symbols in the Mandatory column are as follows:

Yes: If a tag was specified, you must specify the value.

Optional: Value can be omitted.

No: A value setting is not required. Tag only specification.

6.2 Image Information

This section explains the image information in detail.

6.2.1 Overview of Image Information

Image information files are XML documents that list the configuration information for cloning images.

Create and register a separate image information file for each cloning image.

Infra administrators must take this model into account when performing creation.

A model image information file is stored in the following directory:

[Windows]

```
Storage directory: <Installation directory for this product>\templates\images\
```

[Linux]

```
Storage directory: /opt/FJSVcfmg/templates/images/
```

Refer to "6.2.2 File Information Details" for a description of cloning items (tags).

The software ID (which was assigned when the software information was registered) must be entered as the software ID in the image information.

6.2.2 File Information Details

Image information files use the following XML format:

```
<?xml version="1.0" encoding="UTF-8" ?>
<image version="2.0">
    <id>[Cloning image ID]</id>
    <name>[Cloning image name]</name>
    <resourceId>[Resource ID]</resourceId>
    <imageName>[Cloning image name]</imageName>
    <ownerOrg>[Owner (tenant)]</ownerOrg>
    <ownerUser>[Owner (user)]</ownerUser>
    <publicCategory>[Public category]</publicCategory>
    <serverCategory>[Sever category]</serverCategory>
    <serverApplication>[Server application]</serverApplication>
```

```
        <serverType>[Default server type]</serverType>
        <cpuBit>[CPU bit number]</cpuBit>
        <sysvolSize>[System disk size]</sysvolSize>
        <maxCpuPerf>[Maximum CPU performance]</maxCpuPerf>
        <numOfMaxCpu>[Maximum number of CPUs]</numOfMaxCpu>
        <maxMemorySize>[Maximum memory size]</maxMemorySize>
        <numOfMaxDisk>[Maximum number of disks]</numOfMaxDisk>
        <maxDiskSize>[Maximum disk size]</maxDiskSize>
        <numOfMaxNic>[Maximum number of NICs]</numOfMaxNic>
        <initialPassword>[Initial password]</initialPassword>
        <icon>[Icon type]</icon>
        <virtualization>[Virtualization method]</virtualization>
        <filterPool>[Filter string]</filterPool>
        <softwares>
            <software>
                <id>[Software ID]</id>
                <order>[Display order]</order>
                <patches>
                    <patch>
                        <id>[Patch ID]</id>
                        <locale>
                            <lcid>[Locale ID]</lcid>
                            <componentName>[Component name]</componentName>
                            <description>[Description]</description>
                        </locale>
                        ...
                    </patch>
                    ...
                </patches>
            </software>
            ...
        </softwares>
</image>
```

The following table shows descriptions of each of these items (tags), as well as their settings:

Modify image information files if necessary, by referring to the information in this table.

Tag cloning names in square brackets [ ] can be omitted.

Tag name	Format	Setting range	Description	Mandatory	Settings
id	string ASCII	1 to 32 Bytes	The cloning image ID.	Yes	When image information is updated, cloning image ID to be updated is specified. When newly making it, it doesn't specify it.
name	string ASCII	Up to 85 characters	The cloning image name.	Yes	The name of image information is specified.
resourceId	String ASCII	1 to 256Bytes	The resource ID.	Yes	Specify the resource ID that was confirmed using the "cfmg_listvimage" command.
imageName	String ASCII	1 to 32Bytes	The cloning image name.	Yes	Specify the cloning image ID that was confirmed using the "cfmg_listvmimage" command.
ownerOrg	string ASCII	Fixed value	The tenant name to which the cloning image belongs.	Yes	The value is fixed as "cfmgadm".

Tag name	Format	Setting range	Description	Mandatory	Settings
ownerUser	string ASCII	Fixed value	The user ID of the user registering the cloning image.	Yes	The value is fixed as "cfmgadm".
publicCategory	string ASCII	Select an option	This item selects the cloning image category.	Yes	Select one of the following options: "PUBLIC": Show the cloning image to all users. "PRIVATE": Show the cloning image to the owner (user) only. This can only be specified if the replication function is being used. It cannot be specified at template creation.
serverCategory	string ASCII	Fixed value	This item selects the category of the server included in the cloning image.	Yes	The value is fixed as "GENERAL". The server is a generic server.
serverApplication	string ASCII	Select an option	The usage of the server included in the cloning image.	Yes	One or more of the following options can be selected: - "WEB": Web server - "AP": Application server - "DB": DB server If multiple options are specified, separate each option with a forward slash ("/"). Options can be specified in any order. (Example) WEB/AP, AP/WEB/DB, etc.
serverType	string ASCII	0 to 32 Bytes	The server type.	Optional	If this cloning image has been used, specify the name of the L-Server template that is to be selected as the default from amongst the L-Server templates that have been set using Resource Management.
cpuBit	integer	Select an option	The CPU bit count of the server included in the cloning image.	Yes	Select one of the following options: - "32": 32 bit - "64": 64 bit
sysvolSize	decimal	In decimal notation, to one decimal place	The size of the system disk for a server included in the cloning image.	Yes	Specify this value in GB.
[maxCpuPerf]	decimal	In decimal notation, to one decimal place (0.1 to 99999.9)	The maximum specifiable CPU performance for the server.	Yes	Specify the maximum CPU performance in GHz that can be specified for the server in Manager View.
[numOfMaxCpu]	integer	1 to 99	The maximum specifiable number of CPUs for the server.	Yes	Specify a value up to the maximum number of CPUs that the user can specify in Manager View.
[maxMemorySize]	decimal	In decimal notation, to one decimal	The maximum specifiable memory size for the server.	Yes	Specify in GB the maximum memory size that can be specified for the server in Manager View.

Tag name	Format	Setting range	Description	Mandatory	Settings
		place (0.1 to 99999.9)			
numOfMaxDisk	integer	0 to 99	The maximum number of extension disks that can be added to the server.	Yes	Specify a value up to the maximum number of disks that can be specified.
[maxDiskSize]	decimal	In decimal notation, to one decimal place (0.1 to 99999.9)	The maximum specifiable disk size for extension disks.	Yes	Specify a value in GB, up to the maximum disk size that can be specified for extended disks.
numOfMaxNic	integer	1 to 99	The maximum number of network interface cards (NICs) that can be added to the server.	Yes	Specify a value up to the maximum number of NICs that can be specified.
initialPassword	string UTF-8	Up to 85 characters	The initial password for the operating system.	Yes	Specify the password for the following user. [Windows] - If the virtualization software is VMware, the password of 'Administrator' is set to the specified string. - If the virtualization software is Hyper-V, specify the password of the Administrator account of the locale used in the L-Server being created. - If the virtualization software is RHEL-KVM, specify the password of the 'Administrator'. The password specified here is not set to OS. Please specify the same password as the one that has been set in the cloning image. [Linux] Specify the super user password. The password specified here is not set to OS. Please specify the same password as the one that has been set in the cloning image.
icon	string UTF-8	Select an option	The icon of the server included in the cloning image.	Yes	Select an icon from the following list that corresponds to serverApplication: - unit_tag_web.png: WEB - unit_tag_ap.png: AP - unit_tag_db.png: DB - unit_tag_webap.png: WEB/AP - unit_tag_webdb.png: WEB/DB - unit_tag_apdb.png: AP/DB - unit_tag_webapdb.png: WEB/AP/DB - unit_tag_blank.png: Other

Tag name	Format	Setting range	Description	Mandatory	Settings
virtualization	string ASCII	Select an option	The virtual or physical cloning image type.	Yes	Select one of the following options: "hvm": Virtual "pv": Physical
[filterPool]	String UTF-8	1 to 85 Bytes	The string for filtering the VM pool choices for the cloning image.	Optional	
softwares	-	-	The software installed on the server.	No	This tag is required.
software	-	1 or more	Specify as many <software> tags as there are software programs installed on the server.	No	
id	string ASCII	1 to 32 Bytes	The software ID of the software.	Yes	Specify the software ID that was displayed in the registration results obtained using the "cfmg_addsoft" command or in the output results obtained using the "cfmg_listsoft" command.
order	integer	0 or more	The order in which software programs are displayed.	Yes	Specify the software in order, starting from "0". Make sure that the operating system is listed first.
patches	-	-	Patch information for the software.	No	
[patch]	-	0 or more	Specify as many <patch> tags as there are patches or updates that need to be applied.	No	These tags are required only when patch information exists.
id	string ASCII	1 to 32 Bytes	The patch ID for the patch.	Yes	Specify the update number, etc. The same patch ID cannot be specified multiple times for one software ID.
locale	-	1 or more	Patch information for each locale.	No	
lcid	string ASCII	Fixed value	The locale for patch information.	Yes	The value is fixed as "en"
componentName	string UTF-8	Up to 85 characters	The name of the component to which the patch is applied.	Optional	Specify an empty string if the patch specification does not include the concept of components. If patch information that matches all of the software ID, patch ID, and locale is already registered, it will be updated by information that is registered later.
description	string UTF-8	Up to 85 characters	A description for the patch.	Optional	If patch information that matches all of the software ID, patch ID, and locale is already registered, it will be updated by information that is registered later.

The meanings of the symbols in the Mandatory column are as follows:

Yes: If a tag was specified, you must specify the value.

Optional: Value can be omitted.

No: A value setting is not required. Tag only specification.

6.3 Segment Information

This section explains the segment information in detail.

6.3.1 Segment Information

Network resource information is an XML document listing the configuration information for networks.

Create and register a separate segment information file for each segment.

Refer to "6.3.2 Segment Information Details" for an explanation of items (tags).

Infra administrators must take this model into account when performing creation.

A model segment information file is stored in the following directory:

[Windows]

```
Storage directory: <Installation directory for this product>\templates\networks\
```

[Linux]

```
Storage directory: /opt/FJSVcfmg/templates/networks/
```

6.3.2 Segment Information Details

Segment information files use the following XML format:

```
<?xml version="1.0" encoding="UTF-8" ?>
<category version="1.0">
    <ownerOrg>[Owner (tenant)]</ownerOrg>
    <ownerUser>[Owner (user)]</ownerUser>
    <resourceId>[Resource ID]</resourceId>
    <type>[Network type]</type>
    <segmentType>[Segment type information]</segmentType>
</category>
```

The following table shows descriptions of each of these items (tags), as well as their settings:

Modify segment information files if necessary, by referring to the information in this table.

Tag name	Format	Setting range	Description	Mandatory	Settings
category	-	1 or more		No	
ownerOrg	String ASCII	Fixed value	The tenant name to which the network belongs.	Yes	The value is fixed as "cfmgadm".
ownerUser	String ASCII	Fixed value	The user ID of the user registering the network.	Yes	The value is fixed as "cfmgadm".
resourceId	String ASCII	1 to 32 Bytes	The resource ID.	Yes	Specify the resource ID of the ROR network resource that was obtained using the "cfmg_listvnet" command.
type	String ASCII	Select an option	The network type.	No	Select one of the following options:

Tag name	Format	Setting range	Description	Mandatory	Settings
					"MANAGEMENT": Management segment "BUSINESS": Business segment
segmentType	String ASCII	1 to 32 Bytes	The format identifying the segment.	No	Specify an arbitrary string for identifying the segment (maximum of 32 ASCII characters, excluding <, >, &, ", and `).

The meanings of the symbols in the Mandatory column are as follows:

Yes: If a tag was specified, you must specify the value.

No: A value setting is not required. Tag only specification.

6.4 Template Information

This section explains the template information in detail.

6.4.1 Template Information

Template information is defined in XML documents that list the configuration information for L-Platform templates.

Create and register one template information file for each L-Platform template.

Infra administrators must take this model into account when performing creation.

A model template information file is stored in the following directory:

[Windows]

```
Storage directory: <Installation directory for this product>\templates\templates\
The following models are stored:
    sample1.xml(Single server configuration)
    sample2.xml(Two-layer configuration)
    sample3.xml(Three-layer configuration)
```

[Linux]

```
Storage directory: /opt/FJSVcfmg/templates/templates/
The following models are stored:
    sample1.xml(Single server configuration)
    sample2.xml(Two-layer configuration)
    sample3.xml(Three-layer configuration)
```

Refer to "6.4.2 File Information Details" for a description of items (tags).

The cloning image ID of the cloning image registered with Resource Management is entered for the cloning image ID in the template information.

6.4.2 File Information Details

Template information files use the following XML format:

```
<?xml version="1.0" encoding="UTF-8" ?>
<template version="1.1">
    <id>[Template ID]</id>
    <lcid>[Locale ID]</lcid>
    <name>[Template name]</name>
    <baseTemplateId>[Base template ID]</baseTemplateId>
    <ownerOrg>[Owner (tenant)]</ownerOrg>
```

```xml
<ownerUser>[Owner (user)]</ownerUser>
<publicCategory>[Public category]</publicCategory>
<designSheetPath>[Path to the design sheet]</designSheetPath>
<releaseDate>[Release date]</releaseDate>
<numOfMaxVnet>[Maximum number of VNETs]</numOfMaxVnet>
<numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
<productId>[Model number]</productId>
<description>[Description]</description>
<keyword>[Search keyword]</keyword>
<estimate>[Rough cost estimate]</estimate>
<license>[License]</license>
<support>[Support]</support>
<vnets>
    <vnet>
        <id>[Network ID]</id>
        <name>[Name]</name>
        <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
        <resourceId>[Network resource ID]</resourceId>
        <category>[Network type]</category>
        <segmentType>[Segment type information]</segmentType>
    </vnet>
    ...
</vnets>
<lnetdevs>
    <lnetdev>
        <name>[LNetDev name]</name>
        <type>[LNetDev type]</type>
        <lnetdevIfs>
            <lnetdevIf>
                <name>[Interface name]</name>
                <networkId>[Network ID]</networkId>
            </lnetdevIf>
            ...
        </lnetdevIfs>
        <ruleset>
            <name>[Rule set name]</name>
            <description>[Rule set description]</description>
            <parameters>
                <parameter>
                    <name>[Parameter name]</name>
                    <label>[Tenant Display Name]</label>
                    <view>[Display flag]</view>
                    <value>[Parameter value]</value>
                    <description>[Parameter description]</description>
                </parameter>
                ...
            </parameters>
        </ruleset>
    </lnetdev>
</lnetdevs>
<servers>
    <server>
        <no>[Server serial number]</no>
        <imageId>[Cloning image ID]</imageId>
        <name>[Server name]</name>
        <serverType>[Server type]</serverType>
        <pool>[Deployment destination pool resource name]</pool>
        <sparePool>[Spare pool resource name]</sparePool>
        <storagePool>[Storage pool resource name]</storagePool>
        <powerPriority>[Startup priority level]</powerPriority>
        <nicgroups>
            <management>[Control NIC]</management>
            <nicgroup>
```

```
                    <index>[NIC group index]</index>
                    <networkId>[Connection destination network ID]</networkId>
                </nicgroup>
                ...
            </nicgroups>
            <vnics>
                <management>[Control NIC]</management>
                <vnic>
                    <no>[NIC serial number]</no>
                    <networkId>[Connection destination network ID]</networkId>
                    <group>[NIC group index]</group>
                </vnic>
                ...
            </vnics>
            <vdisks>
                <vdisk>
                    <no>[Disk serial number]</no>
                    <diskSize>[Disk capacity]</diskSize>
                    <resourceId>[Resource ID]</resourceId>
                    <resourceName>[Disk recource name]</resourceName>
                    <storagePool>[Storage pool resource name]</storagePool>
                </vdisk>
                ...
            </vdisks>
        </server>
        ...
    </servers>
</template>
```

The following table shows descriptions of each of these items (tags), as well as their settings:

Modify template information files if necessary, by referring to the information in this table.

Tag names in square brackets [ ] can be omitted.

Tag name	Format	Setting range	Description	Mandatory	Settings
[id]	string ASCII	0 to 32 Bytes	The ID assigned to the template.	Optional	If this template ID is omitted, one is automatically assigned.
[lcid]	string ASCII	Fixed value	The locale for template information.	Yes	The value is fixed as "en"
[name]	string UTF-8	Up to 85 characters	The template name. The template name specified here is used for the default system name for the L-Platform system. For the system name, the characters that can be used and the length of the name vary depending on the method for setting resource names. It is recommended that template names be specified within the following range, which is effective for any method for setting resource names: - Names containing no more than 23 alphanumeric characters, underscores ("_") and hyphens ("-") Refer to "Setting the Method for Setting Resource Names" in the	Optional	

Tag name	Format	Setting range	Description	Mand atory	Settings
			"Operation Guide CE" for information on the method for setting resource names.		
baseTemplatId	-	-	The name of the base template.	No	
ownerOrg	string ASCII	Fixed value	The tenant name to which the template belongs.	Yes	The value is fixed as "cfmgadm".
ownerUser	string ASCII	Fixed value	The user ID of the user registering the template.	Yes	The value is fixed as "cfmgadm".
publicCategory	string ASCII	Fixed value	The category of the template.	Yes	The value is fixed as"PUBLIC". The template is available to all users.
designSheetPath	-	-	The storage directory for the design sheet.	No	
releaseDate	string ASCII	0 to 10 Bytes	The date when the template is made available.	Opti onal	The format is "yyyy/mm/dd".
numOfMaxVnet	integer	1 to 99	The maximum number of segments that can be used by the system in the template.	Yes	
numOfMaxVm	integer	0 to 30	The maximum number of servers that can be used by the template's system.	Yes	
productId	-	-	The product ID of the template that will be used for billing purposes.	No	
description	string UTF-8	Up to 85 characters	A description of the template, explaining the system that the template produces, the content of the template, and so on.	Opti onal	
keyword	string UTF-8	Up to 85 characters	The search keyword for the template.	Opti onal	The template search function finds templates that use this keyword.
estimate	decimal	Fixed value	The price of the template.	Yes	The value is fixed as "0".
license	string ASCII	Select an option	Specifies whether a license has been assigned to the template.	Yes	Select one of the following options: - 0: No license assigned - 1: License assigned
support	string ASCII	Select an option	Specifies whether support has been assigned to the template.	Yes	Select one of the following options: - 0: No support assigned - 1: Support assigned
vnets	-	-	The details of the system segments.	No	
[vnet]	-	1 or more	As many segment information files as there are segments.	No	Not required if there is no segment information.
id	string ASCII	1 to 20 Bytes	The ID that identifies the segments within the template.	Yes	Specify any ID within the template. Specify the value specified in this designated value, in the vnic networkID.
name	string ASCII	0 to 20 Bytes	The segment name.	Opti onal	

Tag name	Format	Setting range	Description	Mand atory	Settings
numOfMaxVm	integer	0 to 30	The maximum number of servers that can be added to the segment and used.	Yes	
[resourceId]	string ASCII	1 to 256 Bytes	The resource ID of the virtual network assigned to the segment.	Yes	Confirm the resource ID using the "cfmg_listvnet " command.
[category]	String ASCII	1 to 10Bytes	The segment type for filtering the network resources that can be selected.	Opti onal	Select one of the following options: "BUSINESS": Business segment "MANAGEMENT": Management segment If this is omitted, "BUSINESS" will be used. To omit this, also omit the tag.
[segmentType]	String ASCII	1 to 32Bytes	The segment type information for filtering the network resources that can be selected.	Opti onal	If this is omitted, no filtering will be performed. To omit this, also omit the tag.
lnetdevs	-	-	The system LNetDevs.	No	
lnetdev	-	1 or more	Specify as many <lnetdev> tags as there are LNetDevs.	Yes	
name	String ASCII	1 to 32Bytes	The LNetDev name.	Yes	
type	String ASCII	Fixed value	The LNetDev type.	Yes	The value is fixed as "fw": Firewall".
lnetdevIfs	-	-	The LNetDev virtual interface definition.	Yes	
lnetdevIf	-	1 or more	Specify as many <lnetdevlf> tags as there are virtual interfaces.	Yes	
name	String ASCII	1 Byte or more	The name of the network ID parameter corresponding to the LNetDev virtual interface.	Yes	
networkId	String ASCII	1 to 20Bytes	The corresponding VNET segment ID.	Yes	
ruleset	-	-	The rule set.	Yes	
name	String ASCII	1 to 32Bytes	The rule set name.	Yes	
description	String UTF-8	1 to 256Bytes	The rule set description.	Yes	
parameters	-	-	The rule set parameters.	Yes	
parameter	-	1 or more	Specify as many <parameter> tags as there are parameters.	Yes	
name	String ASCII	1 Byte or more	The parameter name.	Yes	
label	String ASCII	1 to 32Bytes	The parameter name to be displayed on the GUI.	Yes	
view	String ASCII	Select an option	The parameter display flag.	Yes	Select one of the following options: "true": Display "false": No display

Tag name	Format	Setting range	Description	Mandatory	Settings
value	String ASCII	1 Byte or more	The parameter value.	Yes	
description	String UTF-8	0 to 256Bytes	The parameter description.	Yes	
servers	-	-	The number of servers in the system.	No	
server	-	1 or more	Server information for the number of servers that exist.	Yes	
no	integer	0 to 29	The server number.	Yes	This item specifies a serial number for the server that is unique within the template.
imageId	String ASCII	1 to 32 Bytes	The image ID of an image to be deployed on the server.	No	It is necessary to register the image information in advance and check the image ID.
name	string UTF-8	Up to 85 characters	The name of the server.	Yes	This is a name that is used to distinguish servers within the template, and is not the host name.
serverType	string ASCII	1 to 32 Bytes	The name of the L-Server template to be selected as the default template from amongst the L-Server templates that have been set up using Resource Management.	Yes	Specify the same value as was specified in the image information file.
[Pool]	string ASCII	1 Byte or more	The resource name (resource name in Resource Management) of the deployment destination pool of the server. Specify the resource name of the VM pool for virtual, and of the server pool for physical. Specify resource names starting with a forward slash "/". (Example) /vmPool_2	Optional	If this is omitted, the first pool registered with Resource Management will be selected. This can also be modified during deployment.
[sparePool]	String ASCII	1 Byte or more	The resource name (resource name in Resource Management) of the spare server pool for when a physical server fails.	No	
[storagePool]	string ASCII	1 Byte or more	The resource name (resource name in Resource Management) of the storage pool at the server deployment destination. Specify resource names starting with a forward slash "/". (Example) /StoragePool_2	Optional	If omitted, the first storage pool registered with Resource Management will be selected. This can also be modified during deployment.
[powerPriority]	integer	1 to 256	This setting indicates the priority level when performing batch power supply operations within either the L-Platform or within the tenant.	Optional	The smaller the value, the higher the priority level. When omitted, the value is set to 128.

Tag name	Format	Setting range	Description	Mand atory	Settings
nicgroups	-	-	The redundant network interface card (NIC) groups.	Yes	
management	integer	1 or more	The index of the NIC group to be specified in the control NIC.	Yes	This is mandatory if "management" under "vnics" has been omitted. "management" cannot be set in both "nicgroup" and "vnics".
nicgroup	-	-	Specify as many <nicgroup> tags as there are redundant network interface card (NIC) groups.	Yes	A nicgroup without an NIC cannot be defined.
index	integer	1 to 99	A number for the NIC group that is unique within the server.	Yes	
networkId	String ASCII	1 to 20Bytes	The network ID of the segment to which the NIC group is to connect.	Yes	
vnics	-	-	The network interface card (NIC).	No	
management	integer	1 or more	The NIC number specified in the control NIC.	Yes	Specify the value specified in <no> under <vnic>. When <nicgroups> is specified, this item is mandatory in the case of omitting <management> under <nicgroups>. One of the NIC/NIC Groups defined in either <nicgroup> or <vnic> must be specified. It is not possible to specify a NIC whose <group> is specified. It is not possible to assign management settings to both <nicgroup> and <vnics>.
[vnic]	-	1 or more	As many <vnic> tags as there are NICs.	No	
no	integer	1 to 99	The NIC number.	Yes	This item specifies a serial number for the NIC that is unique within the server.
networkId	string ASCII	1 to 20 Bytes	The segment ID for the segment that the NIC connects to.	Yes	Specify the value that was specified in the vnet id.
[group]	String ASCII	1 to 99	If grouping is performed for this NIC, the index number of the NIC group (value of "index" in "nicgroup").	Opti onal	If this is omitted, no grouping will be performed.
vdisks	-	-	The extension disk for the server.	No	
[vdisk]	-	0 or more	As many <vdisk> tags as there are disks.	No	These tags are required only when extension disks exist. When the virtualization software is RHEL-KVM, only existing disks can be specified. [Windows] - If the virtualization software is Hyper-V, specify up to three.

Tag name	Format	Setting range	Description	Mandatory	Settings
[no]	integer	1 or more	A serial number for the disk that is unique within the server.	Yes	For shared disks, the same value must be specified in all servers.
[diskSize]	decimal	In decimal notation, to one decimal place	The size of the disk.	Yes	Specify this value in GB. For shared disks, the same value must be specified in all servers.
[resourceId]	String ASCII	1 to 256Bytes	The resource ID of an existing disk if an existing disk is to be connected.	Yes	Make sure to specify it when the virtualization software is RHEL-KVM.
[resouceName]	String ASCII	1 to 32Bytes	The disk resource name of an existing disk if an existing disk is to be connected.	Yes	Make sure to specify it when the virtualization software is RHEL-KVM.
[storagePool]	string ASCII	1 Byte or more	The resource name (resource name in Resource Management) of the storage pool at the extension disk deployment destination. Specify resource names starting with a forward slash "/". (Example) /StoragePool_2	Optional	If omitted, the first storage pool registered with Resource Management will be selected. This can also be modified during deployment.

The meanings of the symbols in the Mandatory column are as follows:

Yes: If a tag was specified, you must specify the value.

Optional: Value can be omitted.

No: A value setting is not required. Tag only specification.

Part 3   API Reference

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Chapter 7 L-Platform APIs

This chapter describes L-Platform APIs.

7.1 Outline

This section describes L-Platform APIs.

7.1.1 Objective

L-Platform APIs are provided so that users of Resource Management can independently create user portals to invoke the L-Platform functions of this product.

7.1.2 Output Logs

Refer to "Investigation Logs on Admin Servers" in the "Operation Guide CE" for information on log output.

7.1.3 Configuration File

The L-Platform APIs obtain information about the LDAP server and the remote management function from a configuration file.

The configuration file is installed at the following location:

API

[Windows]

```
<Installation directory for this product>\ROR\RCXCFMG\config\api_config.xml
```

[Linux]

```
/etc/opt/FJSVcfmg/config/api_config.xml
```

The following definitions are read from the configuration file above so that they can be used:

Definition name	Meaning
vsys-host	The host name or IP address of the server where the management function API is running
vsys-port	The port number where the management function API is running
vsys-uri	The URI where the management function API is running

Command

[Windows]

```
<Installation directory for this product>\ROR\RCXCFMG\config\command_config.xml
```

[Linux]

```
/etc/opt/FJSVcfmg/config/command_config.xml
```

The following definitions are read from the configuration file above so that they can be used:

Definition name	Meaning
l_platform-api-protocol	The protocol for communicating with the L-Platform API (http or https). The default is https.
l_platform-api-host	The host name or IP address of the server where the L-Platform API is running.
l_platform-api-port	The port number where the L-Platform API is running.

Definition name	Meaning
l_platform-api-uri	The path where the L-Platform API is running.

7.1.4 L-Platform API Authentication

L-Platform API authentication is performed using basic authentication. When an L-Platform API is executed, the HTTP header must include basic authentication information for the executing user.

The tenant name and user ID are specified in arguments for each L-Platform API. Specify the same user ID that has been specified in the basic authentication.

7.2 Overview of L-Platform API Reference

This section describes the L-Platform API reference.

7.2.1 L-Platform API Format

The L-Platform APIs provide REST interfaces that are independent of programming languages.

The L-Platform APIs provided with this version return XML responses to HTTP GET request parameters.

7.2.2 HTTP Requests for L-Platform APIs

This section explains the configuration of the HTTP requests for L-Platform APIs.

URL

The URL format is shown below.

```
https://<Server where the L-Platform APIs are running>:<Port number>/cfmgapi/endpoint
```

The L-Platform APIs all use GET methods. To specify parameters, add a question mark ("?") to the end of the URL path, and then enter the parameters using the following format:

```
<Parameter name>=<Value>&<Parameter name>=<Value>&...
```

📗 Example
. . . .

```
https://<Server where the L-Platform APIs are running>:<Port number of L-Platform APIs is running>
/cfmgapi/endpoint?Version=2.0&Action=ListLPlatform&Locale=ja&userId=user1&orgId=div01
```
. . . .

HTTP header

Specify information for basic authentication in the HTTP header.

```
Authorization: Basic <String encoding "userId:password" in Base64>
```

Note: The userId and password are the ones belonging to the user for L-Platform API authentication. (Users registered on the LDAP directory)

The following example shows the basic authentication information where userId and password have been set to "cfmgapiuser/cfmgapiuser":

📗 Example
. . . .

Authorization:Basic Y2ZtZ2FwaXVzZXI6Y2ZtZ2FwaXVzZXI=
. . . .

Command interface

A command interface is also provided for each API.

The storage destination of the commands is as follows:

[Windows]

```
<Installation directory for this product>\ROR\RCXCFMG\bin(Stores batch commands and shell scripts)
\config(Stores setup files for commands)
```

[Linux]

```
/opt/FJSVcfmg/bin(Stores batch commands and shell scripts)
/etc/opt/FJSVcfmg/config(Stores setup files for commands)
```

7.2.3 Configuration of L-Platform APIs

The L-Platform APIs include the following APIs:

Category	L-Platform API name	Functional overview
Operations on L-Platform templates	ListLPlatformDescriptor	Gets a list of templates.
	ListDiskImage	Gets a list of master image.
	ListServerType	Gets a list of L-Server Templates.
	GetLPlatformDescriptorConfiguration	Gets template configuration information (such as the server configuration and network configuration).
	GetLPlatformDescriptorAttributes	Gets template attributes (such as the template name).
	GetPoolList	Gets a list of resource pools.
Operations on L-Platform	CreateLPlatform	Creates a L-Platform.
	ListLPlatform	Gets a list of L-Platform.
	MoveLPlatform	Changes the organization that owns an L-Platform.
	DestroyLPlatform	Returns a L-Platform.
	GetLPlatformStatus	Gets the status of a L-Platform.
	GetLPlatformConfiguration	Gets configuration information for a L-Platform.
	GetLPLatformAttributes	Gets the attributes of a L-Platform.
	ListNetworkInfo	Gets network information for a L-Platform.
	StartLPlatform	Batch power-on for the servers included in an L-Platform
	StopLPlatform	Batch power-off for the servers included in an L-Platform.
	StartTenantLServers	Batch power-on for the servers included in a tenant.
	StopTenantLServers	Batch power-off for the servers included in a tenant.
Operations on servers	CreateLServer	Creates a new server.
	ListLServer	Gets a list of servers in a L-Platform.
	DestroyLServer	Deletes servers.

Category	L-Platform API name	Functional overview
	RestoreLServer	Restores a server from a snapshot.
	StartLServer	Starts a server.
	StopLServer	Stops a server.
	GetLServerStatus	Gets the status of a server.
	GetLServerConfiguration	Gets configuration information for a server (such as software and patch information).
	GetLServerAttributes	Gets the attributes of a server.
	GetLServerinitialPassword	Gets the password for the initial administrator for the operating system of a server.
	UpdateLServerConfiguration	Changes the performance of a server.
	CreateImage	Collects the cloning image of a specified server.
	CreateSnapshot	Takes a snapshot.
	ListSnapshot	Gets a list of snapshots.
	DestroySnapshot	Deletes snapshots.
	GetSnapshotHistory	Gets a history of snapshots and restorations.
	AddPatch	Adds patch information.
	DestroyPatch	Deletes patch information.
	CancelError	Cancels the error status of a backup or restoration task.
Operations on additional disks	CreateDisk	Adds additional disks.
	DestroyDisk	Deletes additional disks.
	ListDisk	Gets a list of existing disks.
	AttachDisk	Attaches an extended disk.
	DetachDisk	Detaches an extended disk.

7.2.3.1 Explanatory Format for L-Platform APIs

This section describes the general format that is used to explain each L-Platform API in this document.

Request parameters

This section explains each L-Platform API request parameter in table format.

Parameter name	Item	Item description
Request parameter name (*1)	Description	This item explains each parameter.
	Type	This item indicates the parameter type.
	Value	This item indicates the value of each parameter. It also explains specific values when fixed values or actual setting ranges are given.

*1: Parameters enclosed in square brackets ("[ ]") are optional.

Command

This section explains the command format.

If a parameter name is enclosed in square brackets "[ ]", the parameter is omissible.

Refer to "Request parameters" for each API for parameter details.

Response

This section explains L-Platform API responses.

<Status code>

This section explains the status codes.

<XML>

This section explains responses in XML format.

<Elements>

This section explains each element in table format.

Element name	Item	Item description
Name of an element in the response	Description	This item explains each of the elements in the response.
	Type	This item indicates the type of each element in the response.
	Number of occurrences	This item indicates the number of occurrences of each element in the response. It also explains what happens if the number of occurrences varies depending on parent/child relationships for the element.

Sample response

This section presents a sample L-Platform API response. Responses are in XML format.

📖 **Note**

. . . .

In this manual, the order of tags that appear in the output results of L-Platform APIs may differ from the order of the elements listed in the response description table.

. . . .

7.3 L-Platform API Reference

This section describes L-Platform API information to provide an L-Platform API reference.

7.3.1 Operations on L-Platform Templates

This section explains the L-Platform APIs relating to operations on L-Platform templates.

7.3.1.1 ListLPlatformDescriptor (Gets a List of Templates)

This API gets a list of the templates in the virtual data center.

At the same time, the API also gets attribute information for templates.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.

Parameter name	Item	Item description
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListLPlatformDescriptor".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
[keyword]	Description	Keyword for filtering which templates to display in the list. If this parameter is specified, only those templates that include the specified keyword will be included in the response.
	Type	UTF-8 string.
	Value	No more than 85 characters.

Command

```
ListLPlatformDescriptor -version <version ID> -locale <language code> -userId <user ID>
 -password <password> -orgId <tenant name> [-keyword <keyword>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListLPlatformDescriptorResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatformdescriptors>
    <lplatformdescriptor>
      <creatorName>[tenant name of the person who created the L-Platform template]</creatorName>
      <description>[Description of the L-Platform template]</description>
      <registrant>[ID of the person who registered the L-Platform template]</registrant>
      <lplatformdescriptorId>[L-Platform template ID]</lplatformdescriptorId>
      <lplatformdescriptorName>[L-Platform template name]</lplatformdescriptorName>
    </lplatformdescriptor>
  </lplatformdescriptors>
</ListLPlatformDescriptorResponse>
```

<Elements>

Element name	Item	Item description
ListLPlatformDescriptorResponse	Description	Element holding the response information.

Element name	Item	Item description
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lplatformdescriptors	Description	Element holding the response information for the L-Platform template list.
	Type	None.
	Number of occurrences	0 or 1.
lplatformdescriptor	Description	Set of L-Platform template information.
	Type	None.
	Number of occurrences	0 or more.
creatorName	Description	The tenant name of the person who created the L-Platform template.
	Type	ASCII string.
	Number of occurrences	As many as there are lplatformdescriptor elements (0 or 1 element for each lplatformdescriptor element).
description	Description	Description of the L-Platform template.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lplatformdescriptor elements (0 or 1 element for each lplatformdescriptor element).
registrant	Description	The ID of the person who registered the L-Platform template.
	Type	ASCII string.
	Number of occurrences	As many as there are lplatformdescriptor elements (0 or 1 element for each lplatformdescriptor element).
lplatformdescriptorId	Description	L-Platform template ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lplatformdescriptor elements (0 or 1 element for each lplatformdescriptor element).
lplatformdescriptorName	Description	L-Platform template name.

Element name	Item	Item description
	Type	UTF-8 string.
	Number of occurrences	As many as there are lplatformdescriptor elements (0 or 1 element for each lplatformdescriptor element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ListLPlatformDescriptorResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatformdescriptors>
    <lplatformdescriptor>
      <creatorName>cfmgadm</creatorName>
      <description>desc</description>
      <registrant>cfmgadm</registrant>
      <lplatformdescriptorId>TMPL_Win2k8x86_0826_GL</lplatformdescriptorId>
      <lplatformdescriptorName>Win2k8x86_0826</lplatformdescriptorName>
    </lplatformdescriptor>
    <lplatformdescriptor>
      <creatorName>cfmgadm</creatorName>
      <description>desc</description>
      <registrant>cfmgadm</registrant>
      <lplatformdescriptorId>TMPL_Win2k8x86_0826_net</lplatformdescriptorId>
      <lplatformdescriptorName>Win2k8x86_0826_net</lplatformdescriptorName>
    </lplatformdescriptor>
  </lplatformdescriptors>
</ListLPlatformDescriptorResponse>
```

7.3.1.2 ListDiskImage (Gets a List of Cloning Images)

This API gets a list of the disk image IDs in the virtual data center. Specify the product ID corresponding to the content of the disk image when registering disk images.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListDiskImage".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.

Parameter name	Item	Item description
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
ListDiskImag- -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListDiskImageResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <diskimages>
    <diskimage>
      <creatorName>[Organization ID of the person who created the disk image]</creatorName>
      <diskimageId>[Disk image ID]</diskimageId>
      <diskimageName>[Disk image name]</diskimageName>
      <registrant>[ID of the person who registered the disk image]</registrant>
      <size>[Disk image size]</size>
      <maxCpuPerf>[Maximum CPU performance]</maxCpuPerf>
      <numOfMaxCpu>[Maximum number of CPUs]</numOfMaxCpu>
      <maxMemorySize>[Maximum amount of memory]</maxMemorySize>
      <numOfMaxDisk>[Maximum number of disks]</numOfMaxDisk>
      <maxDiskSize>[Maximum amount of disk space]</maxDiskSize>
      <numOfMaxNic>[Maximum number of NICs]</numOfMaxNic>
      <softwares>
        <software>
          <license>[License]</license>
          <name>[Software name]</name>
          <softwareId>[Software ID]</softwareId>
          <category>[Software category]</category>
          <osCategory>[Operating system category]</osCategory>
          <version>[Version]</version>
          <officialVersion>[Official version]</officialVersion>
          <patch>[Patch version number]</patch>
          <support>[Support]</support>
        </software>
      </softwares>
      <patches>
        <patch>
          <softwareId>[Software ID]</softwareId>
          <patchId>[Patch ID]</patchId>
          <componentName>[Component name]</componentName>
          <description>[Patch description]</description>
        </patch>
      </patches>
    </diskimage>
```

```
   </diskimages>
</ListDiskImageResponse>
```

<Elements>

Element name	Item	Item description
ListDiskImageResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
diskimages	Description	Element holding the response information for the disk image information.
	Type	None.
	Number of occurrences	0 or 1.
diskimage	Description	Set of disk image information.
	Type	None.
	Number of occurrences	0 or more.
creatorName	Description	The tenant name of the person who created the disk image.
	Type	ASCII string.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
name	Description	Disk image information name.
	Type	string ASCII
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
diskimageId	Description	Disk image ID.
	Type	ASCII string.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
diskimageName	Description	Disk image name.
	Type	string ASCII

Element name	Item	Item description
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
registrant	Description	The ID of the person who registered the disk image.
	Type	ASCII string.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
size	Description	Disk image size. The units are "GB".
	Type	decimal.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
maxCpuPerf	Description	Maximum CPU performance.
	Type	decimal.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
numOfMaxCpu	Description	Maximum number of CPUs.
	Type	int.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
maxMemorySize	Description	Maximum amount of memory.
	Type	decimal.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
numOfMaxDisk	Description	Maximum number of disks.
	Type	int.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
maxDiskSize	Description	Maximum amount of disk space.
	Type	decimal.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
numOfMaxNic	Description	Maximum number of NICs.
	Type	int.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
softwares	Description	Element holding the response information for the software information.
	Type	None.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
software	Description	Set of software information.
	Type	None.
	Number of occurrences	0 or more.
license	Description	License.

Element name	Item	Item description
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
name	Description	Software name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
softwareId	Description	Software ID.
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
category	Description	Software category.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element)
osCategory	Description	Operating system category
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
version	Description	Version number.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
officialVersion	Description	Official version.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patch	Description	Patch version.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
support	Description	Support.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patches	Description	Element holding the response information for the patch information.
	Type	None.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
patch	Description	Set of patch information.
	Type	None.
	Number of occurrences	0 or more.

Element name	Item	Item description
softwareId	Description	Software ID.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
patchId	Description	Patch ID.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
componentName	Description	Component name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
description	Description	Patch description.
	Type	UTF-8 string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<ListDiskImageResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
 <responseMessage>PAPI00000 Processing was completed.</responseMessage>
 <responseStatus>SUCCESS</responseStatus>
 <diskimages>
   <diskimage>
     <creatorName>cfmgadm</creatorName>
     <diskimageId>image_id_1</diskimageId>
     <diskimageName>image-1</diskimageName>
     <maxCpuPerf>3.0</maxCpuPerf>
     <maxDiskSize>500.0</maxDiskSize>
     <maxMemorySize>4.0</maxMemorySize>
     <numOfMaxCpu>4</numOfMaxCpu>
     <numOfMaxDisk>3</numOfMaxDisk>
     <numOfMaxNic>1</numOfMaxNic>
     <patches>
       <patch>
         <componentName>INSERVEE</componentName>
         <description>Urgent Jservlet update</description>
         <patchId>T000519WP-04</patchId>
         <softwareId>SW00000004</softwareId>
       </patch>
     </patches>
     <registrant>cfmgadm</registrant>
     <size>15.0</size>
     <softwares>
       <software>
         <category>APP</category>
         <license>Fujitsu</license>
         <name>Interstage Application Server (Global edition)</name>
         <officialVersion />
         <osCategory>windows</osCategory>
         <patch />
         <softwareId>SW00000004</softwareId>
```

```
          <support>SDK basics</support>
          <version>6.1</version>
        </software>
      </softwares>
    </diskimage>
  </diskimages>
</ListDiskImageResponse>
```

7.3.1.3 ListServerType (Gets a List of L-Server Templates)

This API gets a list of the server image types in the virtual data center.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select one of the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListServerType".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
ListServerTyp- -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListServerTypeResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
```

```
   <responseMessage>[Message]</responseMessage>
   <responseStatus>[Status]</responseStatus>
   <servertypes>
     <servertype>
       <comment>[Comment]</comment>
       <cpu>
         <cpuArch>[CPU architecture]</cpuArch>
         <cpuPerf>[CPU performance]</cpuPerf>
         <numOfCpu>[Number of CPUs]</numOfCpu>
         <cpuReserve>[CPU reserve performance]</cpuReserve>
         <cpuShare>[CPU allotment ratio]</cpuShare>
       </cpu>
       <disks>
         <disk>
           <diskSize>[Disk capacity]</diskSize>
           <diskIndex>[Disk index]</diskIndex>
         </disk>
       </disks>
       <id>[ID]</id>
       <label>[Label]</label>
       <memory>
         <memorySize>[Memory size]</memorySize>
         <memoryReserve>[Reserved memory capacity]</memoryReserve>
         <memoryShare>[Memory allotment ratio]</memoryShare>
       </memory>
       <name>[L-Server template name]</name>
       <nics>
         <numOfNIC>[Number of NICs]</numOfNIC>
       </nics>
       <serverPolicy>
         <positioning>[Operation positioning]</positioning>
         <redundancy>[Redundancy]</redundancy>
       </serverPolicy>
       <type>[Server type]</type>
       <vmType>[VM type]</vmType>
     </servertype>
   </servertypes>
</ListServerTypeResponse>
```

<Elements>

Element name	Item	Item description
ListServerTypeResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	1.
servertypes	Description	Element holding the response information for the server type information.
	Type	None.
	Number of occurrences	0 or 1.
servertype	Description	Set of server type information.
	Type	None.
	Number of occurrences	0 or more.
comment	Description	Comment.
	Type	UTF-8 string.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
cpu	Description	Set of CPU information.
	Type	None.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
cpuArch	Description	CPU architecture. One of the following values: "IA": IA. "SPARC": SPARC.
	Type	ASCII string.
	Number of occurrences	As many as there are cpu elements (0 or 1 element for each cpu element).
cpuPerf	Description	CPU performance.
	Type	decimal.
	Number of occurrences	As many as there are cpu elements (0 or 1 element for each cpu element).
numOfCpu	Description	Number of CPUs.
	Type	int.
	Number of occurrences	As many as there are cpu elements (0 or 1 element for each cpu element).
cpuReserve	Description	CPU reserve performance.
	Type	decimal
	Number of occurrences	As many as there are CPU elements (0 or 1 element for each CPU element).
cpuShare	Description	CPU allotment ratio.
	Type	int
	Number of occurrences	As many as there are CPU elements (0 or 1 element for each CPU element).
disks	Description	Element holding the response information for the disk information.
	Type	None.

Element name	Item	Item description
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
disk	Description	Set of disk information.
	Type	None.
	Number of occurrences	0 or more.
diskSize	Description	Disk capacity.
	Type	decimal.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskIndex	Description	Disk index.
	Type	int.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
id	Description	Server ID.
	Type	ASCII string.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
label	Description	Server label.
	Type	UTF-8 string.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
memory	Description	Set of memory information.
	Type	None.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
memorySize	Description	Memory size.
	Type	decimal.
	Number of occurrences	As many as there are memory elements (0 or 1 element for each memory element).
memoryReserve	Description	Reserved memory capacity.
	Type	decimal
	Number of occurrences	As many as there are memory elements (0 or 1 element for each memory element).
memoryShare	Description	Memory allotment ratio.
	Type	int
	Number of occurrences	As many as there are memory elements (0 or 1 element for each memory element).
name	Description	L-Server template name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
nics	Description	Set of NIC information.

Element name	Item	Item description
	Type	None.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
numOfNIC	Description	Number of NICs.
	Type	int.
	Number of occurrences	As many as there are nics elements (0 or 1 element for each nics element).
serverPolicy	Description	Set of server policy information.
	Type	None.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
positioning	Description	Operation positioning. One of the following values: "Fixed": The position is fixed. "AttachAtBoot": The position can be varied at boot time. "Flexible": The position can be varied during operations.
	Type	ASCII string.
	Number of occurrences	As many as there are serverPolicy elements (0 or 1 element for each serverPolicy element).
redundancy	Description	Redundancy.
	Type	UTF-8 string.
	Number of occurrences	As many as there are serverPolicy elements (0 or 1 element for each serverPolicy element).
lservertype	Description	Server type. One of the following values: "Physical": Physical server. "Virtual": Virtual server.
	Type	ASCII string.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
vmType	Description	Virtual machine type. One of the following values: "VMware": VMware "RHEL-Xen": RHEL5-Xen. "Hyper-V": Hyper-V "RHEL-KVM":RHEL-KVM
	Type	ASCII string.
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<ListServerTypeResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <servertypes>
    <servertype>
      <comment>Comment 1</comment>
      <cpu>
```

```xml
      <cpuArch>IA</cpuArch>
      <cpuPerf>2.6</cpuPerf>
      <numOfCpu>4</numOfCpu>
    </cpu>
    <disks>
      <disk>
        <diskIndex>0</diskIndex>
        <diskSize>100</diskSize>
      </disk>
    </disks>
    <id>1</id>
    <label>Label 1</label>
    <memory>
      <memorySize>8</memorySize>
    </memory>
    <name>High Performance</name>
    <nics>
      <numOfNIC>10</numOfNIC>
    </nics>
    <serverPolicy>
      <positioning>pos</positioning>
      <redundancy>red</redundancy>
    </serverPolicy>
    <type>server_type</type>
    <vmType>VMware</vmType>
  </servertype>
  <servertype>
    <comment>Comment 2</comment>
    <cpu>
      <cpuArch>IA</cpuArch>
      <cpuPerf>2.0</cpuPerf>
      <cpuReserve>0.5</cpuReserve>
      <cpuShare>10</cpuShare>
      <numOfCpu>2</numOfCpu>
    </cpu>
    <disks>
      <disk>
        <diskIndex>0</diskIndex>
        <diskSize>100</diskSize>
      </disk>
    </disks>
    <id>2</id>
    <label>Label 2</label>
    <memory>
      <memorySize>4</memorySize>
      <memoryReserve>0.5</memoryReserve>
      <memoryShare>1000</memoryShare>
    </memory>
    <name>Middle Spec</name>
    <nics>
      <numOfNIC>10</numOfNIC>
    </nics>
    <serverPolicy>
      <positioning>pos</positioning>
      <redundancy>red</redundancy>
    </serverPolicy>
    <type>server_type</type>
    <vmType>RHEL-Xen</vmType>
  </servertype>
  <servertype>
    <comment>Comment 3</comment>
    <cpu>
      <cpuArch>IA</cpuArch>
```

```
          <cpuPerf>1.4</cpuPerf>
          <cpuReserve>0.5</cpuReserve>
          <cpuShare>10</cpuShare>
          <numOfCpu>1</numOfCpu>
        </cpu>
        <disks>
          <disk>
            <diskIndex>0</diskIndex>
            <diskSize>100</diskSize>
          </disk>
        </disks>
        <id>3</id>
        <label>Label 3</label>
        <memory>
          <memorySize>2</memorySize>
        </memory>
        <name>Economy</name>
        <nics>
          <numOfNIC>10</numOfNIC>
        </nics>
        <serverPolicy>
          <positioning>pos</positioning>
          <redundancy>red</redundancy>
        </serverPolicy>
        <type>server_type</type>
        <vmType>VMware</vmType>
      </servertype>
    </servertypes>
</ListServerTypeResponse>
```

7.3.1.4 GetLPlatformDescriptorConfiguration (Gets Template Configuration Information)

This API gets configuration information for the template.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select one of the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLPlatformDescriptorConfiguration".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformDescriptorId	Description	L-Platform template ID.
	Type	ASCII string.
	Value	No more than 32 characters.

command

```
GetLPlatformDescriptorConfiguration -version <version ID> -locale <language code> -userId <user ID>
-password <password> -orgId <tenant name> -lplatformDescriptorId <L-Platform template ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformDescriptorConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatformdescriptor>
    <creatorName>[tenant name of the person who created the L-Platform template]</creatorName>
    <description>[Description of the L-Platform template]</description>
    <firewalls>
      <firewall>
        <interfaces>
          <interface>
            <name>[Interface name]</name>
            <networkId>[Network ID]</networkId>
          </interface>
        </interfaces>
        <name>[Firewall name]</name>
        <ruleset>
          <description>[Rule set description]</description>
          <name>[Rule set name]</name>
          <parameters>
            <parameter>
              <description>[Parameter information description]</description>
              <name>[Parameter information name]</name>
              <value>[Parameter value]</value>
              <view>[Parameter display flag]</view>
            </parameter>
          </parameters>
        </ruleset>
      </firewall>
    </firewalls>
    <registrant>[The person who registered the L-Platform  template]</registrant>
    <networks>
      <network>
        <name>[Network name]</name>
        <networkCategory>[Network type]</networkCategory>
        <networkId>[Network ID]</networkId>
        <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
        <segmentType>[Segment identifier]</segmentType>
```

```
          </network>
        </networks>
        <lservers>
          <lserver>
            <creator>[The tenant name of the person who created the virtual machine]</creator>
            <diskimageId>[Disk image ID]</diskimageId>
            <diskimageName>[Disk image name]</diskimageName>
            <disks>
              <disk>
                <diskNo>[Additional disk serial number]</diskNo>
                <size>[The size of the additional disk]</size>
                <storagePool>[The resource name of the storage pool]</storagePool>
                <diskLink>
                  <lserverNo>[Serial number of server with shared disk]</lserverNo>
                  <diskNo>[Disk serial number of shared disk]</diskNo>
                </diskLink>
              </disk>
            </disks>
            <sparePool>[The resource name of the spare pool]</sparePool>
            <storagePool>[The resource name of the storage pool] </storagePool>
            <pool>/[The resource name of the VM pool]</pool>
            <priority>[Power priority]</priority>
            <nics>
              <nic>
                <management>[Control NIC]</management>
                <networkId>[Connection destination network ID]</networkId>
                <nicNo>[NIC serial number]</nicNo>
              </nic>
            </nics>
            <lserverName>[Server name]</lserverName>
            <lserverNo>[Serial number of server with shared disk]</lserverNo>
            <serverType>[Server type]</serverType>
          </lserver>
        </lservers>
        <lplatformdescriptorId>[L-Platform template ID</lplatformdescriptorId>
        <lplatformdescriptorName>[L-Platform template name]</lplatformdescriptorName>
      </lplatformdescriptor>
</GetLPlatformDescriptorConfigurationResponse>
```

\<Elements\>

Parameter name	Item	Item description
GetLPlatformDescriptorConfigurationResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned.

Parameter name	Item	Item description
		Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lplatformdescriptor	Description	Element holding the response information for the L-Platform template information.
	Type	None.
	Number of occurrences	0 or 1.
creatorName	Description	The tenant name of the person who created the L-Platform template.
	Type	ASCII string.
	Number of occurrences	0 or 1.
description	Description	Description of the L-Platform template.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
registrant	Description	The person who registered the L-Platform template.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
networks	Description	Element holding the response information for the network information.
	Type	None.
	Number of occurrences	0 or 1.
network	Description	Set of network information.
	Type	None.
	Number of occurrences	0 or more.
networkId	Description	Network ID.
	Type	ASCII string.
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).
name	Description	Network name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).
numOfMaxVm	Description	Maximum number of VMs.
	Type	int.
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).

Parameter name	Item	Item description
networkCategory	Description	Network type.
	Type	ASCII string.
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).
segmentType	Description	Segment identifier.
	Type	string ASCII
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).
firewalls	Description	Element holding the response information for the firewall information.
	Type	None.
	Number of occurrences	0 or 1.
firewall	Description	Set of firewall information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Firewall name.
	Type	string UTF-8
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interfaces	Description	Element holding the response information for the interface information.
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interface	Description	Set of interface information.
	Type	None.
	Number of occurrences	As many as there are interfaces elements (0 or 1 element for each interfaces element).
name	Description	Interface name.
	Type	string UTF-8
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
networkId	Description	Network ID.
	Type	string ASCII
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Firewall rule set.
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
name	Description	Rule set name.
	Type	string UTF-8

Parameter name	Item	Item description
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
description	Description	Rule set description.
	Type	string UTF-8
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
parameters	Description	Element holding the response information for the rule set parameter information.
	Type	None.
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
parameter	Description	Set of rule set parameter information.
	Type	None.
	Number of occurrences	As many as there are parameters elements (0 or 1 element for each parameters element).
name	Description	Parameter information name.
	Type	string UTF-8
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Parameter display flag.
	Type	string ASCII
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value.
	Type	string ASCII
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
description	Description	Parameter information description.
	Type	string UTF-8
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
lservers	Description	Element holding the response information for the virtual machine information.
	Type	None.
	Number of occurrences	0 or 1.
lserver	Description	Set of virtual machine information.
	Type	None.
	Number of occurrences	0 or more.
creator	Description	The tenant name of the person who created the virtual machine.
	Type	ASCII string.

Parameter name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverNo	Description	Server serial number.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageId	Description	Disk image ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageName	Description	Disk image name.
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
disks	Description	Element holding the response information for the additional disk information.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
disk	Description	Set of additional disk information.
	Type	None.
	Number of occurrences	0 or more.
diskNo	Description	Additional disk serial number.
	Type	int
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
size	Description	The size of the additional disk. The units are "GB".
	Type	decimal.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskLink	Description	Set of shared disk link information.
	Type	None.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
lserverNo	Description	Serial number of server with shared disk.
	Type	int
	Number of occurrences	As many as there are diskLink elements (0 or 1 element for each diskLink element).
diskNo	Description	Disk serial number of shared disk.
	Type	int
	Number of occurrences	As many as there are diskLink elements (0 or 1 element for each diskLink element).

Parameter name	Item	Item description
storagePool	Description	The resource name of the storage pool.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
lserverName	Description	Server name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
serverType	Description	Server type.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
Pool	Description	The resource name of the VM pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
sparePool	Description	The resource name of the spare pool.
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
storagePool	Description	The resource name of the storage pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
priority	Description	Server creation sequence. Between 1 and 256. This is also used in the batch power operation sequence. Priority startup levels are set to between 1 and 256 when performing batch power supply controls. These values will be started up from small servers.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
nicgroups	Description	Element holding the response information for the NIC group information.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
nicgroup	Description	Set of NIC group information.
	Type	None.
	Number of occurrences	As many as there are nicgroups elements (0 or 1 element for each nicgroups element).
nicgroupIndex	Description	NIC group index.
	Type	int

Parameter name	Item	Item description
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
networkId	Description	Connection destination network ID.
	Type	string ASCII
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
	Type	int
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
nics	Description	Element holding the response information for the VNIC information.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
nic	Description	Set of NIC information.
	Type	None.
	Number of occurrences	0 or more.
nicNo	Description	NIC serial number.
	Type	int.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
networkId	Description	Connection destination network.
	Type	ASCII string.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroupIndex	Description	The NIC group index to which the server belongs.
	Type	int
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
	Type	int.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
lplatformdescriptorId	Description	L-Platform template ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
lplatformdescriptorName	Description	L-Platform template name.
	Type	UTF-8 string.

Parameter name	Item	Item description
	Number of occurrences	0 or 1.

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformDescriptorConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatformdescriptor>
    <creatorName>cfmgadm</creatorName>
    <description>firewall-test</description>
    <firewalls>
      <firewall>
        <interfaces>
          <interface>
            <name>network-param-0001</name>
            <networkId>1ot2#FWS#</networkId>
          </interface>
          <interface>
            <name>network-param-0002</name>
            <networkId>1ot4#FWS#</networkId>
          </interface>
        </interfaces>
        <name>Firewall</name>
        <ruleset>
          <description>rule set_1</description>
          <name>rule1</name>
          <parameters>
            <parameter>
              <description>Parameter_1</description>
              <name>param_var_001</name>
              <value>200</value>
              <view>false</view>
            </parameter>
            <parameter>
              <description>Parameter_2</description>
              <name>param_var_002</name>
              <value/>
              <view>true</view>
            </parameter>
            <parameter>
              <description>Parameter_3</description>
              <name>param_var_003</name>
              <value>400</value>
              <view>true</view>
            </parameter>
          </parameters>
        </ruleset>
      </firewall>
    </firewalls>
    <registrant>tpladm1</registrant>
    <networks>
      <network>
        <name>network-param-0001</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>1ot2#FWS#</networkId>
        <numOfMaxVm>10</numOfMaxVm>
        <segmentType>DMZ</segmentType>
```

```xml
      </network>
      <network>
        <name>network-param-0002</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>1ot4#FWS#</networkId>
        <numOfMaxVm>10</numOfMaxVm>
        <segmentType>SECURE</segmentType>
      </network>
  </networks>
  <lservers>
    <lserver>
      <creator>cfmgadm</creator>
      <diskimageId>image-1324e093f4e</diskimageId>
      <diskimageName>g-physical-0001</diskimageName>
      <sparePool/>
      <storagePool>/StoragePool</storagePool>
      <pool>/VMHostPool</pool>
      <priority>10</priority>
      <nics>
        <nic>
          <management>1</management>
          <networkId>1ot2#FWS#</networkId>
          <nicNo>1</nicNo>
        </nic>
        <nic>
          <management>0</management>
          <networkId>1ot2#FWS#</networkId>
          <nicNo>2</nicNo>
        </nic>
      </nics>
      <lserverName>Server_1</lserverName>
      <lserverNo>0</lserverNo>
      <serverType>Economy</serverType>
    </lserver>
    <lserver>
      <creator>cfmgadm</creator>
      <diskimageId>image-1324e09f82f</diskimageId>
      <diskimageName>g-vm-0002</diskimageName>
      <sparePool/>
      <storagePool>/StoragePool</storagePool>
      <pool>/VMHostPool</pool>
      <priority>20</priority>
      <nics>
        <nic>
          <management>1</management>
          <networkId>1ot4#FWS#</networkId>
          <nicNo>1</nicNo>
        </nic>
        <nic>
          <management>0</management>
          <networkId>1ot4#FWS#</networkId>
          <nicNo>2</nicNo>
        </nic>
        <nic>
          <management>0</management>
          <networkId>1ot4#FWS#</networkId>
          <nicNo>3</nicNo>
        </nic>
      </nics>
      <lserverName>vm_1</lserverName>
      <lserverNo>1</lserverNo>
      <serverType>over_commit</serverType>
    </lserver>
```

```
    </lservers>
    <lplatformdescriptorId>template-1325738ea5b</lplatformdescriptorId>
    <lplatformdescriptorName>firewall-test</lplatformdescriptorName>
  </lplatformdescriptor>
</GetLPlatformDescriptorConfigurationResponse>
```

7.3.1.5 GetLPlatformDescriptorAttributes (Gets Template Attributes)

This API gets attribute information for L-Platform templates.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select one of the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLPlatformDescriptorAttributes ".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformDescriptorId	Description	L-Platform template ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLPlatformDescriptorAttribute- -version <version ID> -locale <language code> -userId <user ID>
 -password <password> -orgId <tenant name> -lplatformDescriptorId <L-Platform template ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformDescriptorAttributesResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatformdescriptor>
    <creatorName>[tenant name of the person who created the L-Platform  template]</creatorName>
    <description>[Description of the L-Platform template]</description>
    <registrant>[Person who registered the L-Platform template]</registrant>
    <lplatformdescriptorId>[L-Platform template ID]</lplatformdescriptorId>
    <lplatformDescriptorName>[L-Platform template name]</lplatformDescriptorName>
  </lplatformdescriptor>
</GetLPlatformDescriptorAttributesResponse>
```

<Elements>

Element name	Item	Item description
GetLPlatformDescriptorAttributes Response	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lplatformdescriptor	Description	Element holding the response information for the L-Platform template information.
	Type	None.
	Number of occurrences	0 or 1.
creatorName	Description	The tenant name of the person who created the L-Platform template.
	Type	ASCII string.
	Number of occurrences	0 or 1.
description	Description	Description of the L-Platform template.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
registrant	Description	The person who registered the L-Platform template.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
lplatformdescriptorId	Description	L-Platform template ID.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	0 or 1.
lplatformdescriptorName	Description	L-Platform template name.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformDescriptorAttributesResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatformdescriptor>
    <creatorName>[Organization ID of L-Platform template creator]</creatorName>
    <description>[Description of L-Platform template]</description>
    <registrant>[Registrant of L-Platform template]</registrant>
    <lplatformdescriptorId>[L-Platform template ID]</lplatformdescriptorId>
    <lplatformDescriptorName>[L-Platform template name]</lplatformDescriptorName>
  </lplatformdescriptor>
</GetLPlatformDescriptorAttributesResponse>
```

7.3.1.6 GetPoolList (Gets a List of Resource Pools)

This API gets a list of resource pools.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetPoolList".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
[type]	Description	Resource pool type. If this element is omitted, the API will return a list of all resource pools, regardless of their type.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	Select one of the following values: "vm": VM pool. "storage": Storage pool. "mac": MAC address set. "server": Server pool. "image": Image pool.

Command

```
GetPoolList -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> [-type <resource pool type>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetPoolListResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <resourcepools>
    <vmpools>
      <vmpool>
        <name>[The resource name of the VM pool]</name>
        <vmpoolResourceId>[The resource ID of the VM pool]</vmpoolResourceId>
        <priority>[Priority order]</priority>
        <cpuTotal>[Total CPU capacity]</cpuTotal>
        <cpuFree>[Free CPU capacity]</cpuFree>
        <maxCpuPerf>[Maximum CPU performance]</maxCpuPerf>
        <numOfMaxCpu>[Maximum number of CPUs]</numOfMaxCpu>
        <memoryTotal>[Total amount of memory]</memoryTotal>
        <memoryFree>[Amount of free memory]</memoryFree>
        <maxMemorySize>[Maximum amount of memory]</maxMemorySize>
      </vmpool>
    </vmpools>
    <storagepools>
      <storagepool>
        <name>[The resource name of the storage pool]</name>
        <storagepoolResourceId>[The resource ID of the storage pool]</storagepoolResourceId>
        <priority>[Priority order]</priority>
        <total>[Total amount of storage]</total>
        <free>[Amount of free storage]</free>
        <maxDiskSize>[Maximum amount of disk space]</maxDiskSize>
      </storagepool>
    </storagepools>
    <macaddresses>
      <macaddress>
        <name>[The resource name of the MAC address set]</name>
        <macaddresspoolResourceId>[The resource ID of the MAC address set]</macaddresspoolResourceId>
        <total>[Total number of MAC addresses]</total>
        <free>[Number of vacant MAC addresses]</free>
      </macaddress>
```

```
      </macaddresses>
      <serverPools>
        <serverpool>
          <free>[Total number of unused physical servers]</free>
          <name>[The resource name of the server pool]</name>
          <serverpoolResourceId>[The resource ID of the server pool]</serverpoolResourceId>
          <total>[Total number of physical servers]</total>
        </serverpool>
      </serverPools>
      <imagePools>
        <imagepool>
          <imagepoolResourceId>[The resource ID of the image pool]</imagepoolResourceId>
          <name>[The resource name of the image pool]</name>
          <priority>[Priority order]</priority>
          <num>[Number of images]</num>
        </imagepool>
      </imagePools>
    </resourcepools>
</GetPoolListResponse>
```

<Elements>

Element name	Item	Item description
GetPoolListResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
resourcepools	Description	Element holding the response information for the resource pool information.
	Type	None.
	Number of occurrences	1.
vmpools	Description	Element holding the response information for the VM pool information.
	Type	None.
	Number of occurrences	0 or 1.

Element name	Item	Item description
vmpool	Description	Set of VM pool information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	The resource name of the VM pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
vmpoolResourceId	Description	The resource ID of the VM pool.
	Type	string ASCII
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
priority	Description	Priority order.
	Type	int.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
cpuTotal	Description	Total CPU capacity.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
cpuFree	Description	Free CPU capacity.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
maxCpuPerf	Description	Maximum CPU performance.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
numOfMaxCpu	Description	Maximum number of CPUs.
	Type	int.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
memoryTotal	Description	Total amount of memory.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
memoryFree	Description	Amount of free memory.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
maxMemorySize	Description	Maximum amount of memory.
	Type	decimal.

Element name	Item	Item description
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
storagepools	Description	Element holding the response information for the storage pool information.
	Type	None.
	Number of occurrences	0 or 1.
storagepool	Description	Set of storage pool information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	The resource name of the storage pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are storagepool elements (0 or 1 element for each storagepool element).
storagepoolResrouceId	Description	The resource ID of the storage pool.
	Type	string ASCII
	Number of occurrences	As many as there are storagepool elements (0 or 1 element for each storagepool element).
priority	Description	Priority order.
	Type	int.
	Number of occurrences	As many as there are storagepool elements (0 or 1 element for each storagepool element).
total	Description	Total amount of storage.
	Type	decimal.
	Number of occurrences	As many as there are storagepool elements (0 or 1 element for each storagepool element).
free	Description	Amount of free storage.
	Type	decimal.
	Number of occurrences	As many as there are storagepool elements (0 or 1 element for each storagepool element).
maxDiskSize	Description	Maximum amount of disk space.
	Type	decimal.
	Number of occurrences	As many as there are storagepool elements (0 or 1 element for each storagepool element).
macaddresses	Description	Element holding the response information for the MAC address information.
	Type	None.
	Number of occurrences	0 or 1.
macaddress	Description	Set of MAC address information.
	Type	None.

Element name	Item	Item description
	Number of occurrences	0 or more.
name	Description	The resource name of the MAC address set.
	Type	UTF-8 string.
	Number of occurrences	As many as there are macaddress elements (0 or 1 element for each macaddress element).
macaddresspoolResourceId	Description	The resource ID of the MAC address set.
	Type	string ASCII
	Number of occurrences	As many as there are macaddress elements (0 or 1 element for each macaddress element).
total	Description	Total number of MAC addresses.
	Type	int.
	Number of occurrences	As many as there are macaddress elements (0 or 1 element for each macaddress element).
free	Description	Number of vacant MAC addresses.
	Type	int.
	Number of occurrences	As many as there are macaddress elements (0 or 1 element for each macaddress element).
serverPools	Description	Element holding the response information for the server pool information.
	Type	None.
	Number of occurrences	0 or 1.
serverPool	Description	Set of server pool information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	The resource name of the server pool.
	Type	string UTF-8
	Number of occurrences	As many as there are serverPool elements (0 or 1 element for each serverPool element).
serverpoolResourceId	Description	The resource ID of the server pool.
	Type	string ASCII
	Number of occurrences	As many as there are serverPool elements (0 or 1 element for each serverPool element).
total	Description	Total number of physical servers.
	Type	int
	Number of occurrences	As many as there are serverPool elements (0 or 1 element for each serverPool element).
free	Description	Total number of unused physical servers.
	Type	int
	Number of occurrences	As many as there are serverPool elements (0 or 1 element for each serverPool element).

Element name	Item	Item description
imagePools	Description	Element holding the response information for the image pool information.
	Type	None.
	Number of occurrences	0 or 1.
imagePool	Description	Set of image pool information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	The resource name of the image pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are imagePool elements (0 or 1 element for each imagePool element).
imagepoolResourceId	Description	The resource ID of the image pool.
	Type	ASCII string.
	Number of occurrences	As many as there are imagePool elements (0 or 1 element for each imagePool element).
priority	Description	Priority order.
	Type	int
	Number of occurrences	As many as there are imagePool elements (0 or 1 element for each imagePool element).
num	Description	Number of images.
	Type	int
	Number of occurrences	As many as there are imagePool elements (0 or 1 element for each imagePool element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetPoolListResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <resourcepools>
    <imagePools>
      <imagepool>
        <imagepoolResourceId>WIN-5EGJBQPP4SJ_9</imagepoolResourceId>
        <name>/ImagePool</name>
      </imagepool>
      <imagepool>
        <imagepoolResourceId>WIN-5EGJBQPP4SJ_3429</imagepoolResourceId>
        <name>/tenantA/ImagePool</name>
      </imagepool>
    </imagePools>
    <serverPools>
      <serverpool>
        <free>8</free>
        <name>/ServerPool</name>
        <serverpoolResourceId>WIN-5EGJBQPP4SJ_5</serverpoolResourceId>
        <total>9</total>
      </serverpool>
      <serverpool>
```

```
            <free>3</free>
            <name>/tenantA/ServerPool</name>
            <serverpoolResourceId>WIN-5EGJBQPP4SJ_5</serverpoolResourceId>
            <total>4</total>
        </serverpool>
    </serverPools>
    <storagepools>
        <storagepool>
            <free>99.2</free>
            <maxDiskSize>99.7</maxDiskSize>
            <name>/StoragePool</name>
            <storagepoolResourceId>WIN-5EGJBQPP4SJ_6</storagepoolResourceId>
            <total>99.7</total>
        </storagepool>
    </storagepools>
    <vmpools>
        <vmpool>
            <cpuFree>63.8</cpuFree>
            <cpuTotal>63.8</cpuTotal>
            <maxCpuPerf>2.6</maxCpuPerf>
            <maxMemorySize>13.7</maxMemorySize>
            <memoryFree>27.4</memoryFree>
            <memoryTotal>27.4</memoryTotal>
            <name>/VMHostPool</name>
            <numOfMaxCpu>12.0</numOfMaxCpu>
            <vmpoolResourceId>WIN-5EGJBQPP4SJ_4</vmpoolResourceId>
        </vmpool>
    </vmpools>
  </resourcepools>
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</GetPoolListResponse>
```

7.3.2 Operations on L-Platform Systems

This section explains the L-Platform APIs relating to operations on L-Platform systems.

7.3.2.1 CreateLPlatform (Creates a L-Platform)

This API creates an L-Platform based on a template.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "CreateLPlatform".
userId	Description	The user ID of the user that executes the L-Platform API.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformDescriptorId	Description	L-Platform template ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformName	Description	L-Platform name.
	Type	UTF-8 string.
	Value	No more than 85 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "

Command

```
CreateLPlatform -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> -lplatformDescriptorId <template ID> -lplatformName <L-Platform name>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatformId>[L-Platform ID]</lplatformId>
</CreateLPlatformResponse>
```

<Elements>

Element name	Item	Item description
CreateLPlatformResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.

Element name	Item	Item description
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatformId>LPLATFORM000001</lplatformId>
</CreateLPlatformResponse>
```

7.3.2.2 ListLPlatform (Gets a List of L-Platform)

This API gets a list of the L-Platform in the virtual data center.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListLPlatform".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.

Parameter name	Item	Item description
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
[verbose]	Description	The detailed information display flag.
	Type	string ASCII
	Value	Select one of the following values: "true": Display of detailed information. "false": No display of detailed information. If the value is omitted, operation is as if "false" were specified.

Command

```
ListLPlatform -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> [-verbose <detailed information display flag>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ListLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatforms>
    <lplatform>
      <baseDescriptor>[Template ID from which the L-Platform was created]</baseDescriptor>
      <creator>[The tenant name of the person who created the L-Platform]</creator>
      <ownerUser>[The user ID of the person who owns the L-Platform]</ownerUser>
      <description>[L-Platform description]</description>
      <firewalls>
        <firewall>
          <interfaces>
            <interface>
              <name>[Interface name]</name>
              <networkId>[Network ID]</networkId>
            </interface>
          </interfaces>
          <name>[Firewall name]</name>
          <ruleset>
            <description>[Rule set description]</description>
            <name>[Rule set name]</name>
            <parameters>
              <parameter>
                <description>[Parameter information description]</description>
                <name>[Parameter information name]</name>
                <value>[Parameter value]</value>
                <view>[Parameter display flag]</view>
              </parameter>
            </parameters>
          </ruleset>
```

```
      </firewall>
    </firewalls>
    <networks>
      <network>
        <name>[Network name]</name>
        <networkCategory>[Network type]</networkCategory>
        <networkId>[Network ID]</networkId>
        <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
        <segmentType>[Segment type information]</segmentType>
      </network>
    </networks>
    <lservers>
      <lserver>
        <creator>[The tenant name of the person who created the server]</creator>
        <diskimageId>[Disk image ID]</diskimageId>
        <diskimageName>[Disk image name]</diskimageName>
        <disks>
          <disk>
            <attachedTo>[ID of server to which additional disk has been attached]</attachedTo>
            <creator>[The tenant name of the person who created the additional disk]</creator>
            <size>[The size of the additional disk]</size>
            <diskId>[The ID of the additional disk]</diskId>
            <diskName>[The name of the additional disk]</diskName>
            <resourceName>[Name of the Existing disk]</resourceName>
            <storagePool>[The resource name of the storage pool]</storagePool>
          </disk>
        </disks>
        <hostName>[Host name of the server]</hostName>
        <memorySize>[Amount of memory]</memorySize>
        <numOfCpu>「Number of CPUs」</numOfCpu>
        <requestCpuPerf>[Requested CPU performance]</requestCpuPerf>
        <requestMemorySize>[Requested memory capacity]</requestMemorySize>
        <requestNumOfCpu>[Requested number of CPUs]</requestNumOfCpu>
        <storagePool>[The resource name of the storage pool]</storagePool>
        <pool>[The resource name of the VM pool]</pool>
        <vmType>[Virtual machine type]</vmType>
        <nicgroups>
          <nicgroup>
            <nicgroupIndex>[The NIC group index to which the server belongs]</nicgroupIndex>
            <management>[Control NIC]</management>
            <networkId>[Network ID]</networkId>
            <privateIp>[IP address]</privateIp>
          </nicgroup>
        </nicgroups>
        <nics>
          <nic>
            <management>[Control NIC]</management>
            <networkId>[Network ID]</networkId>
            <nicNo>[NIC serial number]</nicNo>
            <privateIp>[IP address]</privateIp>
            <nicgroupIndex>[The NIC group index to which the server belongs]</nicgroupIndex>
          </nic>
        </nics>
        <lserverId>[Server ID]</lserverId>
        <lserverName>[Server name]</lserverName>
        <lserverStatus>[Lserver Status]</lserverStatus>
        <serverType>[Server type]</serverType>
        <lserverType>[Server type]</lserverType>
        <priority>[Power priority]</priority>
        <image>
          <cpuBit>[Number of bits for the CPU]</cpuBit>
          <id>[Image ID]</id>
          <numOfMaxDisk>[Maximum number of disks]</numOfMaxDisk>
```

```
            <numOfMaxNic>[Maximum number of NICs]</numOfMaxNic>
            <serverApplication>[Server usage]</serverApplication>
            <serverCategory>[Server type]</serverCategory>
            <softwares>
              <software>
                <category>[Software category]</category>
                <softwareId>[Software ID]</softwareId>
                <license>[License information]</license>
                <name>[Software name]</name>
                <officialVersion>[Official version]</officialVersion>
                <patch>[Patch version number]</patch>
                <support>[Support]</support>
                <version>[Version]</version>
              </software>
            </softwares>
            <patches>
              <patch>
                <softwareId>[Software ID]</softwareId>
                <patchId>[Patch ID]</patchId>
                <componentName>[Component name]</componentName>
                <description>[Patch description]</description>
              </patch>
            </patches>
            <sysvolSize>[Size of the system volume]</sysvolSize>
          </image>
        </lserver>
      </lservers>
      <lplatformId>[L-Platform ID]</lplatformId>
      <lplatformName>[L-Platform name]</lplatformName>
      <lplatformStatus>[L-Platform status]</lplatformStatus>
    </lplatform>
  </lplatforms>
</ListLPlatformResponse>
```

<Elements>

Element name	Item	Item description
ListLPlatformResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	1.
lplatforms	Description	Element holding the response information for the L-Platform information.
	Type	None.
	Number of occurrences	0 or 1.
lplatform	Description	Set of L-Platform information.
	Type	None.
	Number of occurrences	0 or more.
baseDescriptor	Description	Template ID from which the L-Platform was created.
	Type	ASCII string.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
creator	Description	The tenant name of the person who created the L-Platform.
	Type	ASCII string.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
ownerUser	Description	The user ID of the person who owns the L-Platform.
	Type	ASCII string.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
description	Description	L-Platform description.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
lplatformName	Description	L-Platform name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
lplatformStatus	Description	L-Platform status. One of the following values: "NORMAL": The system is operating normally. "RECONFIG_ING": The system is being reconfigured. "DEPLOYING": The system is being deployed. "ERROR": A system error has occurred. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).

Element name	Item	Item description
networks	Description	Element holding the response information for the VNet information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or 1.
network	Description	Set of VNet information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or more.
networkId	Description	Vnet ID. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
networkCategory	Description	Network type: For manager LAN, the value is "MANAGEMENT". For business LAN, the value is "BUSINESS". If the network has not been registered, the value is an empty string. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
name	Description	Network name. This element will only be displayed if "true" has been set in "verbose".
	Type	UTF-8 string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
numOfMaxVm	Description	Maximum number of VMs. This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
segmentType	Description	Segment type information. This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
firewalls	Description	Element holding the response information for the firewall information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
firewall	Description	Set of L-Platform information.

Element name	Item	Item description
		This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or more.
name	Description	Firewall name.
		This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interfaces	Description	Element holding the response information for the interface information.
		This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interface	Description	Set of interface information.
		This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or more.
name	Description	Interface name.
		This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
networkId	Description	Network ID.
		This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Set of firewall rule set information.
		This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
name	Description	Rule set name.
		This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
description	Description	Rule set description.
		This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8

Element name	Item	Item description
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
parameters	Description	Element holding the response information for the rule set parameter information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
parameter	Description	Set of parameter information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or more.
name	Description	Parameter information name. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Parameter display flag. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
description	Description	Parameter information description. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
lservers	Description	Element holding the response information for the server information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
lserver	Description	Set of server information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.

Element name	Item	Item description
	Number of occurrences	0 or more.
creator	Description	The tenant name of the person who created the server. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageId	Description	Disk image ID. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageName	Description	Disk image name. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
disks	Description	Element holding the response information for the additional disk information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
disk	Description	Set of additional disk information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or more.
attachedTo	Description	ID of server to which additional disk has been attached. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
creator	Description	The tenant name of the person who created the additional disk. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
size	Description	The size of the additional disk. Specify this value in GB. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal

Element name	Item	Item description
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskId	Description	The ID of the additional disk. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskName	Description	The name of the additional disk. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
resourceName	Description	The name of the existing disk. This element will only be displayed for existing disks.
	Type	string UTF-8
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
storagePool	Description	The resource name of the storage pool. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
nics	Description	Element holding the response information for the NIC information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
nic	Description	Set of NIC information. This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or more.
networkId	Description	Network ID. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicNo	Description	NIC serial number. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).

Element name	Item	Item description
privateIp	Description	IP address.
		This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
management	Description	Control NIC: The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
		This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroupIndex	Description	NIC group index to which the server belongs.
		This will not be displayed if the server is not included in the NIC group.
		This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroups	Description	Element holding the response information for the NIC group information.
		This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
nicgroup	Description	Set of NIC group information.
		This element will only be displayed if "true" has been set in "verbose".
	Type	None.
	Number of occurrences	0 or more.
nicgroupIndex	Description	NIC group index.
		This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
networkId	Description	Connection destination network ID.
		This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string.
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
privateIp	Description	IP address.
		This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).

Element name	Item	Item description
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0". This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
lserverId	Description	Server ID. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverName	Description	Server name. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverStatus	Description	Server status. One of the following values: "DEPLOYING": The server is being deployed. "RUNNING": The server is running. "STOPPING": The server is stopping. "STOPPED": The server is stopped. "STARTING": The server is operating. "FAILOVER": The server is operating with failover status. "UNEXPECTED STOP": The server has stopped unexpectedly. "RESTORING": The server is being restored. "BACKUP_ING": The server is being backed up. "ERROR": A server error has occurred. "START_ERROR": An error has occurred when the server is starting. "STOP_ERROR": An error has occurred when the server is stopping. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
hostName	Description	Host name of the server. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
vmType	Description	VM type. "VMware": VMware. " RHEL-Xen": RHEL5-Xen. "Hyper-V": Hyper-V. "RHEL-KVM": RHEL-KVM. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
Pool	Description	The resource name of the VM pool. This will only be output if the server type is a server. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
storagePool	Description	The resource name of the storage pool. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuPerf	Description	CPU performance. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
numOfCpu	Description	Number of CPUs. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuReserve	Description	CPU reserve performance. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuShare	Description	CPU allotment ratio. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memorySize	Description	Amount of memory. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memoryReserve	Description	Reserved memory capacity. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memoryShare	Description	Memory allotment ratio. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestCpuPerf	Description	Requested CPU performance. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestNumOfCpu	Description	Requested number of CPUs. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestMemorySize	Description	Requested memory capacity. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverType	Description	Server type. One of the following: "Physical": Physical server. "Virtual": Virtual Server This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
serverType	Description	Server type. This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
priority	Description	Priority startup levels are set to between 1 and 256 when performing batch power supply controls. These values will be started up from small servers. However, servers with a startup priority level of '0' are not eligible for batch power supply operations.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
image	Description	Set of image information.
	Type	None.

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuBit	Description	Number of bits for the CPU. One of the following values: "32": 32 bit CPU. "64": 64 bit CPU.
	Type	ASCII string.
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
id	Description	Image ID
	Type	ASCII string.
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
numOfMaxDisk	Description	Maximum number of disks.
	Type	int
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
numOfMaxNic	Description	Maximum number of NICs.
	Type	int
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
serverApplication	Description	Server usage. One of the following values: "WEB": Web server. "AP": Application server. "DB": Database server. "FILE": File server.
	Type	ASCII string.
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
serverCategory	Description	Server type. The value of this item is "GENERAL", indicating a generic server.
	Type	ASCII string.
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
softwares	Description	Element holding the response information for the software information.
	Type	None.
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
software	Description	Set of software information.
	Type	None.
	Number of occurrences	0 or more.
category	Description	Software category. One of the following values:

Element name	Item	Item description
		"OS": Operating system.
		"MIDDLE": Middleware.
		"APP": Application.
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
softwareId	Description	Software ID.
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
license	Description	License.
	Type	string UTF-8
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
name	Description	Software name.
	Type	string UTF-8
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
officialVersion	Description	Official version
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patch	Description	Patch version.
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
support	Description	Support.
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
version	Description	Version number.
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patches	Description	Element holding the response information for the patch information.
	Type	None.
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
patch	Description	Set of patch information.
	Type	None.
	Number of occurrences	0 or more.

Element name	Item	Item description
softwareId	Description	Software ID.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
patchId	Description	Patch ID.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
componentName	Description	Component name.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
description	Description	Patch description.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
sysvolSize	Description	The size of the system volume.
	Type	decimal
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ListLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatforms>
    <lplatform>
      <baseDescriptor>template-1325738ea5b</baseDescriptor>
      <creator>tenantA</creator>
      <ownerUser>user1</ownerUser>
      <description>firewall-test</description>
      <firewalls>
        <firewall>
          <interfaces>
            <interface>
              <name>network-param-0001</name>
              <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
            </interface>
            <interface>
              <name>network-param-0002</name>
              <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
            </interface>
          </interfaces>
          <name>Firewall</name>
          <ruleset>
            <description>rule set-1</description>
            <name>rule1</name>
            <parameters>
              <parameter>
                <description>parameter-1</description>
```

```xml
              <name>param_var_001</name>
              <value>200</value>
              <view>false</view>
              <description>parameter-2</description>
              <name>param_var_002</name>
              <value/>
              <view>true</view>
              <description>parameter-3</description>
              <name>param_var_003</name>
              <value>400</value>
              <view>true</view>
          </parameters>
        </ruleset>
    </firewall>
  </firewalls>
  <networks>
    <network>
      <name>network-param-0002</name>
      <networkCategory>BUSINESS</networkCategory>
      <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
      <numOfMaxVm>10</numOfMaxVm>
    </network>
    <network>
      <name>network-param-0001</name>
      <networkCategory>BUSINESS</networkCategory>
      <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
      <numOfMaxVm>10</numOfMaxVm>
    </network>
  </networks>
  <lservers>
    <lserver>
      <cpuPerf>1.0</cpuPerf>
      <creator>tenantA</creator>
      <diskimageId>image-1324e093f4e</diskimageId>
      <diskimageName>g-physical-0001</diskimageName>
      <hostName>V8O0NW7TZV0001</hostName>
      <memorySize>2.0</memorySize>
      <numOfCpu>2</numOfCpu>
      <requestCpuPerf>1.4</requestCpuPerf>
      <requestMemorySize>2.0</requestMemorySize>
      <requestNumOfCpu>1</requestNumOfCpu>
      <storagePool>/StoragePool</storagePool>
      <lserverType>Physical</lserverType>
      <disks/>
      <image>
        <cpuBit>32</cpuBit>
        <id>image-132480039e8</id>
        <numOfMaxDisk>0</numOfMaxDisk>
        <numOfMaxNic>3</numOfMaxNic>
        <serverApplication>AP</serverApplication>
        <serverCategory>GENERAL</serverCategory>
        <softwares>
          <software>
            <category>OS</category>
            <license>1</license>
            <name>softNameA</name>
            <officialVersion/>
            <patch/>
```

```
      <softwareId>SW00000003</softwareId>
      <support>1</support>
      <version>6.0</version>
    </software>
  </softwares>
  <sysvolSize>20.0</sysvolSize>
</image>
<pool>/ServerPool</pool>
<vmType>VMware</vmType>
<nics>
  <nic>
    <management>0</management>
    <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
    <nicNo>2</nicNo>
    <privateIp>192.xxx.xxx.xxx4</privateIp>
  </nic>
  <nic>
    <management>1</management>
    <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
    <nicNo>1</nicNo>
    <privateIp>192.xxx.xxx.xxx</privateIp>
  </nic>
</nics>
<lserverId>tenantA-8O0NW7TZV-S-0001</lserverId>
<lserverName>lserver-1</lserverName>
<lserverStatus>RUNNING</lserverStatus>
<serverType>Economy</serverType>
<priority>10</priority>
</lserver>
<lserver>
  <cpuPerf>1.2</cpuPerf>
  <creator>tenantA</creator>
  <diskimageId>image-1324e09f82f</diskimageId>
  <diskimageName>g-vm-0002</diskimageName>
  <hostName>V8O0NW7TZV0002</hostName>
  <memorySize>1.6</memorySize>
  <numOfCpu>1</numOfCpu>
  <storagePool>/StoragePool</storagePool>
  <lserverType>Virtual</lserverType>
  <disks/>
  <vmPool>/VMHostPool</vmPool>
  <vmType>VMware</vmType>
  <nics>
    <nic>
      <management>0</management>
      <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
      <nicNo>3</nicNo>
      <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
    <nic>
      <management>0</management>
      <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
      <nicNo>2</nicNo>
      <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
    <nic>
      <management>1</management>
      <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
      <nicNo>1</nicNo>
      <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
  </nics>
  <lserverId>tenantA-8O0NW7TZV-S-0002</lserverId>
```

```xml
        <lserverName>lserver-1</lserverName>
        <lserverStatus>RUNNING</lserverStatus>
        <serverType>over_commit</serverType>
        <priority>20</priority>
      </lserver>
    </lservers>
    <lplatformId>tenantA-8O0NW7TZV</lplatformId>
    <lplatformName>firewall-test</lplatformName>
    <lplatformStatus>NORMAL</lplatformStatus>
  </lplatform>
  <lplatform>
    <baseDescriptor>template-1324e0c2ac0</baseDescriptor>
    <creator>tenantA</creator>
    <ownerUser>user2</ownerUser>
    <description/>
    <networks>
     <network>
        <name>ServiceLan</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>6MYJCS7MR-N-j8f0</networkId>
        <numOfMaxVm>10</numOfMaxVm>
      </network>
      <network>
        <name>AdminLan</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>6MYJCS7MR-N-j61j</networkId>
        <numOfMaxVm>10</numOfMaxVm>
      </network>
    </networks>
    <lservers>
      <lserver>
        <cpuPerf>1.0</cpuPerf>
        <creator>tenantA</creator>
        <diskimageId>image-1324e093f4e</diskimageId>
        <diskimageName>g-physical-0001</diskimageName>
        <hostName>V6MYJCS7MR0001</hostName>
        <memorySize>2.0</memorySize>
        <numOfCpu>2</numOfCpu>
        <requestCpuPerf>0.1</requestCpuPerf>
        <requestMemorySize>0.1</requestMemorySize>
        <requestNumOfCpu>1</requestNumOfCpu>
        <storagePool>/StoragePool</storagePool>
        <lserverType>Physical</lserverType>
        <disks/>
        <pool>/ServerPool</pool>
        <vmType>VMware</vmType>
        <nics>
          <nic>
            <management>0</management>
            <networkId>6MYJCS7MR-N-j61j</networkId>
            <nicNo>2</nicNo>
            <privateIp>192.xxx.xxx.xxx</privateIp>
          </nic>
          <nic>
            <management>1</management>
            <networkId>6MYJCS7MR-N-j61j</networkId>
            <nicNo>1</nicNo>
            <privateIp>192.xxx.xxx.xxx</privateIp>
          </nic>
        </nics>
        <lserverId>tenantA-6MYJCS7MR-S-0001</lserverId>
        <lserverName>lserver-1</lserverName>
        <lserverStatus>STOPPED</lserverStatus>
```

```
            <serverType>Economy</serverType>
            <priority>30</priority>
          </lserver>
          <lserver>
            <cpuPerf>1.2</cpuPerf>
            <creator>tenantA</creator>
            <diskimageId>image-1324e09f82f</diskimageId>
            <diskimageName>g-vm-0002</diskimageName>
            <hostName>V6MYJCS7MR0002</hostName>
            <memorySize>1.6</memorySize>
            <numOfCpu>1</numOfCpu>
            <storagePool>/StoragePool</storagePool>
            <lserverType>Virtual</lserverType>
            <disks/>
            <pool>/VMHostPool</pool>
            <vmType>VMware</vmType>
            <nics>
              <nic>
                <management>1</management>
                <networkId>6MYJCS7MR-N-j8f0</networkId>
                <nicNo>1</nicNo>
                <privateIp>192.xxx.xxx.xxx</privateIp>
              </nic>
              <nic>
                <management>0</management>
                <networkId>6MYJCS7MR-N-j8f0</networkId>
                <nicNo>3</nicNo>
                <privateIp>192.xxx.xxx.xxx</privateIp>
              </nic>
              <nic>
                <management>0</management>
                <networkId>6MYJCS7MR-N-j8f0</networkId>
                <nicNo>2</nicNo>
                <privateIp>192.xxx.xxx.xxx</privateIp>
              </nic>
            </nics>
            <lserverId>tenantA-6MYJCS7MR-S-0002</lserverId>
            <lserverName>lserver-1</lserverName>
            <lserverStatus>STOPPED</lserverStatus>
            <serverType>over_commit</serverType>
            <priority>40</priority>
          </lserver>
        </lservers>
        <lplatformId>tenantA-6MYJCS7MR</lplatformId>
        <lplatformName>test-mix</lplatformName>
        <lplatformStatus>NORMAL</lplatformStatus>
      </lplatform>
    </lplatforms>
</ListLPlatformResponse>
```

7.3.2.3 MoveLPlatform (Changes the Organization that Owns an L-Platform)

This API changes the organization that owns an L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.

Parameter name	Item	Item description
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "MoveLPlatform".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 31 characters.
toUserId	Description	The user ID after the change.
	Type	ASCII string.
	Value	No more than 31 characters.
toOrgId	Description	The tenant name after the change.
	Type	ASCII string.
	Value	No more than 8 characters.

Command

```
MoveLPlatform -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> -lplatformId <L-Platform ID> [-toUserId <user ID after change]
 -toOrgId <tenant name after change>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<MoveLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</MoveLPlatformResponse>
```

<Elements>

Element name	Item	Item description
MoveLPlatformResponse	Description	The version ID of the L-Platform API.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message: This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status: This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<MoveLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</MoveLPlatformResponse>
```

7.3.2.4 DestroyLPlatform (Returns a L-Platform)

This API returns an L-Platform. All the resources within the L-Platform are deleted and disabled.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "DestroyLPlatform".

Parameter name	Item	Item description
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 8 characters.
lplatformId	Description	The ID of the L-Platform to be returned.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
DestroyLPlatform –version <version ID> –locale <language code> –userId <user ID> –password <password>
 –orgId <tenant name> –lplatformId <L-PlatformID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroyLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</DestroyLPlatformResponse>
```

<Elements>

Element name	Item	Item description
DestroyLPlatformResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.

Element name	Item	Item description
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroyLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</DestroyLPlatformResponse>
```

7.3.2.5 GetLPlatformStatus (Gets the Status of a L-Platform)

This API gets status information for a L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLPlatformStatus".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLPlatformStatus -version <version ID> -locale <language code> -userId <user ID> -password
<password>
 -orgId <tenant name> -lplatformId <L-PlatformID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformStatusResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatformStatus>[L-Platform status]</lplatformStatus>
</GetLPlatformStatusResponse>
```

<Elements>

Element name	Item	Item description
GetLPlatformStatusResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lplatformStatus	Description	L-Platform status. One of the following values: "NORMAL": The system is operating normally. "RECONFIG_ING": The system is being reconfigured. "DEPLOYING": The system is being deployed. "ERROR": A system error has occurred.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformStatusResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatformStatus>NORMAL</lplatformStatus>
</GetLPlatformStatusResponse>
```

7.3.2.6 GetLPlatformConfiguration (Gets Configuration Information for a L-Platform)

This API gets configuration information for a L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLPlatformConfiguration".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLPlatformConfiguration -version <version ID> -locale <language code> -userId <user ID>
 -password <password> -orgId <tenant name> -lplatformId <L-Platform ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatform>
    <baseDescriptor>[Template ID from which the L-Platform was created]</baseDescriptor>
    <creator>[The tenant name of the person who created the L-Platform]</creator>
    <ownerUser>[The user ID of the person who owns the L-Platform]</ownerUser>
    <description>[L-Platform description]</description>
    <firewalls>
      <firewall>
        <interfaces>
          <interface>
            <name>[Interface name]</name>
            <networkId>[Network ID]</networkId>
          </interface>
        </interfaces>
        <name>[Firewall name]</name>
        <ruleset>
          <description>[Rule set description]</description>
          <name>[Rule set name]</name>
          <parameters>
            <parameter>
              <description>[Parameter information description]</description>
              <name>[Parameter information name]</name>
              <value>[Parameter value]</value>
              <view>[Parameter display flag]</view>
            </parameter>
          </parameters>
        </ruleset>
      </firewall>
    </firewalls>
    <networks>
      <network>
        <name>[Network name]</name>
        <networkCategory>[Network type]</networkCategory>
        <networkId>[Network ID]</networkId>
        <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
        <segmentType>[Segment type information]</segmentType>
      </network>
    </networks>
    <lservers>
      <lserver>
        <cpuPerf>[CPU performance]</cpuPerf>
        <creator>[The tenant name of the person who created the server]</creator>
        <diskimageId>[Disk image ID]</diskimageId>
        <diskimageName>[Disk image name]</diskimageName>
        <disks>
          <disk>
           <attachedTo>[The ID of the virtual machine to which the additional disk has been attached]</attachedTo>
            <creator>[The tenant name of the person who created the additional disk]</creator>
            <size>[The size of the additional disk]</size>
```

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```
        <diskId>[The ID of the additional disk]</diskId>
        <diskName>[The name of the additional disk]</diskName>
        <resourceName>[Name of the Existing disk]</resourceName>
      </disk>
    </disks>
    <hostName>[Host name of the server]</hostName>
    <memorySize>[Amount of memory]</memorySize>
    <memoryReserve>[Reserved memory capacity]</memoryReserve>
    <memoryShare>[Memory allotment ratio]</memoryShare>
    <cpuPerf>[CPU performance]</cpuPerf>
    <cpuReserve>[CPU reserve performance]</cpuReserve>
    <cpuShare>[CPU allotment ratio]</cpuShare>
    <numOfCpu>[Number of CPUs]</numOfCpu>
    <requestCpuPerf>[Requested CPU performance]</requestCpuPerf>
    <requestMemorySize>[Requested memory capacity]</requestMemorySize>
    <requestNumOfCpu>[Requested number of CPUs]</requestNumOfCpu>
    <storagePool>[The resource name of the storage pool]</storagePool>
    <type>[Server type]</type>
    <pool>[The resource name of the VM pool]</pool>
    <vmType>[Virtual machine type]</vmType>
    <nicgroups>
      <nicgroup>
        <nicgroupIndex>[NIC group index]</nicgroupIndex>
        <networkId>[Network ID]</networkId>
        <privateIp>[IP address]</privateIp>
        <management>[Control NIC]</management>
      </nicgroup>
    </nicgroups>
    <nics>
      <nic>
        <management>[Control NIC]</management>
        <networkId>[Network ID]</networkId>
        <nicNo>[NIC serial number]</nicNo>
        <privateIp>[IP address]</privateIp>
        <nicgroupIndex>[The NIC group index to which the server belongs]</nicgroupIndex>
      </nic>
    </nics>
    <lserverId>[Server ID]</lserverId>
    <lserverName>[Server name]</lserverName>
    <lserverStatus>[Server status]</lserverStatus>
    <lserverType>[Server type]</lserverType>
    <serverType>[Server type]</serverType>
    <priority>[Power priority]</priority>
  </lserver>
    </lservers>
    <lplatformId>[L-Platform ID]</lplatformId>
    <lplatformName>[L-Platform name]</lplatformName>
  </lplatform>
</GetLPlatformConfigurationResponse>
```

<Elements>

Element name	Item	Item description
GetLPlatformConfigurationResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.

Element name	Item	Item description
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lplatform	Description	Element holding the response information for the L-Platform information.
	Type	None.
	Number of occurrences	0 or 1.
baseDescriptor	Description	Template ID from which the L-Platform was created.
	Type	ASCII string.
	Number of occurrences	0 or 1.
creator	Description	The tenant name of the person who created the L-Platform.
	Type	ASCII string.
	Number of occurrences	0 or 1.
ownerUser	Description	The user ID of the person who owns the L-Platform.
	Type	ASCII string.
	Number of occurrences	0 or 1.
description	Description	L-Platform description.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
networks	Description	Element holding the response information for the network information.
	Type	None.
	Number of occurrences	0 or 1.
network	Description	Set of network information.
	Type	None.
	Number of occurrences	0 or more.

Element name	Item	Item description
networkId	Description	Network ID.
	Type	ASCII string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
networkCategory	Description	Network type. For manager LAN, the value is "MANAGEMENT". For business LAN, the value is "BUSINESS". If the network has not been registered, the value is an empty string.
	Type	ASCII string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
name	Description	Network name.
	Type	string UTF-8
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
numOfMaxVm	Description	Maximum number of VMs.
	Type	int
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
segmentType	Description	Segment type information.
	Type	string UTF-8
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
firewalls	Description	Element holding the response information for the firewall information.
	Type	None.
	Number of occurrences	0 or 1.
firewall	Description	Set of firewall information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Firewall name.
	Type	string UTF-8
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interfaces	Description	Element holding the response information for the interface information.
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interface	Description	Set of interface information.
	Type	None.

Element name	Item	Item description
	Number of occurrences	As many as there are interfaces elements (more than 0 elements for each interfaces element).
name	Description	Interface name.
	Type	string UTF-8
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).)
networkId	Description	Network ID.
	Type	string ASCII
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Firewall rule set.
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
name	Description	Rule set name.
	Type	string UTF-8
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
description	Description	Rule set description.
	Type	string UTF-8
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
parameters	Description	Element holding the response information for the rule set parameter information.
	Type	None.
	Number of occurrences	As many as there are rule set elements (0 or 1 element for each rule set element).
parameter	Description	Set of rule set parameter information.
	Type	None.
	Number of occurrences	As many as there are parameters elements (0 or 1 element for each parameters element).
name	Description	Parameter information name.
	Type	string UTF-8
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Parameter display flag.
	Type	string ASCII
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value.
	Type	string ASCII
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).

Element name	Item	Item description
description	Description	Parameter information description.
	Type	string UTF-8
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
lservers	Description	Element holding the response information for the server information.
	Type	None.
	Number of occurrences	0 or 1.
lserver	Description	Set of server information.
	Type	None.
	Number of occurrences	0 or more.
creator	Description	The tenant name of the person who created the server.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageId	Description	Disk image ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageName	Description	Disk image name.
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
disks	Description	Element holding the response information for the additional disk information.
	Type	None.
	Number of occurrences	0 or 1.
disk	Description	Set of additional disk information.
	Type	None.
	Number of occurrences	0 or more.
attachedTo	Description	The ID of the virtual machine to which the additional disk has been attached.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
creator	Description	The tenant name of the person who created the additional disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).

Element name	Item	Item description
size	Description	The size of the additional disk. Specify this value in GB.
	Type	decimal.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskId	Description	The ID of the additional disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskName	Description	The name of the additional disk.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
resourceName	Description	The name of the existing disk. This element will be displayed for existing disks only.
	Type	string UTF-8
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
storagePool	Description	The resource name of the storage pool.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
nics	Description	Element holding the response information for the NIC information.
	Type	None.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
nic	Description	Set of NIC information.
	Type	None.
	Number of occurrences	0 or more.
networkId	Description	Network ID.
	Type	ASCII string.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicNo	Description	NIC serial number.
	Type	int.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
privateIp	Description	IP address.
	Type	ASCII string.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).

Element name	Item	Item description
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
	Type	int.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroupIndex	Description	The NIC group index to which the server belongs. This will not be displayed if the server is not included in the NIC group.
	Type	int
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroups	Description	Element holding the response information for the NIC information.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
nicgroup	Description	Set of NIC information.
	Type	None.
	Number of occurrences	0 or more.
nicgroupIndex	Description	NIC group index.
	Type	int
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
networkId	Description	Network ID.
	Type	string ASCII
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
privateIp	Description	IP address.
	Type	string ASCII
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
	Type	int
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
lserverId	Description	Server ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverName	Description	Server name.
	Type	UTF-8 string.

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
hostName	Description	Host name of the server.
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
vmType	Description	Virtual machine type. One of the following values: "VMware": VMware. " RHEL-Xen": RHEL5-Xen. "Hyper-V": Hyper-V. "RHEL-KVM": RHEL-KVM
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
Pool	Description	The resource name of the VM pool. This will only be output if the server type is a virtual server.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
storagePool	Description	The resource name of the storage pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuPerf	Description	CPU performance.
	Type	decimal.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
numOfCpu	Description	Number of CPUs.
	Type	int.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuReserve	Description	CPU reserve performance.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuShare	Description	CPU allotment ratio.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memorySize	Description	Amount of memory.
	Type	decimal.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

Element name	Item	Item description
memoryReserve	Description	Reserved memory capacity.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memoryShare	Description	Memory allotment ratio.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestCpuPerf	Description	Requested CPU performance.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestNumOfCpu	Description	Requested number of CPUs.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestMemorySize	Description	Requested memory capacity.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lseverType	Description	Server type. One of the following: " Physical": Physical server. "Virtual": Virtual server.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
serverType	Description	Server type.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
lplatformName	Description	L-Platform name.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
priority	Description	Priority startup levels are set to between 1 and 256 when performing batch power supply controls. These values will be started up from small servers. However, servers with a startup priority level of '0' are not eligible for batch power supply operations.
	Type	int

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatform>
    <baseDescriptor>template-1325738ea5b</baseDescriptor>
    <creator>tenantA</creator>
    <ownerUser>user1</ownerUser>
    <description>firewall-test</description>
    <firewalls>
      <firewall>
        <interfaces>
          <interface>
            <name>network-param-0001</name>
            <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
          </interface>
          <interface>
            <name>network-param-0002</name>
            <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
          </interface>
        </interfaces>
        <name>Firewall</name>
        <ruleset>
          <description>rule set-1</description>
          <name>rule1</name>
          <parameters>
            <parameter>
              <description>parameter-1</description>
              <name>param_var_001</name>
              <value>200</value>
              <view>false</view>
            </parameter>
            <parameter>
              <description>parameter-2</description>
              <name>param_var_002</name>
              <value/>
              <view>true</view>
            </parameter>
            <parameter>
              <description>parameter-3</description>
              <name>param_var_003</name>
              <value>400</value>
              <view>true</view>
            </parameter>
          </parameters>
        </ruleset>
      </firewall>
    </firewalls>
    <networks>
      <network>
        <name>network-param-0001</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
        <numOfMaxVm>10</numOfMaxVm>
```

```
      </network>
      <network>
        <name>network-param-0002</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
        <numOfMaxVm>10</numOfMaxVm>
      </network>
    </networks>
    <lservers>
      <lserver>
        <cpuPerf>1.0</cpuPerf>
        <creator>tenantA</creator>
        <diskimageId>image-1324e093f4e</diskimageId>
        <diskimageName>g-physical-0001</diskimageName>
        <hostName>V8O0NW7TZV0001</hostName>
        <memorySize>2.0</memorySize>
        <numOfCpu>2</numOfCpu>
        <requestCpuPerf>1.4</requestCpuPerf>
        <requestMemorySize>2.0</requestMemorySize>
        <requestNumOfCpu>1</requestNumOfCpu>
        <storagePool>/StoragePool</storagePool>
        <lserverType>Physical</lserverType>
        <disks/>
        <vmPool>/ServerPool</vmPool>
        <vmType>VMware</vmType>
        <nics>
          <nic>
            <management>0</management>
            <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
            <nicNo>2</nicNo>
            <privateIp>192.168.0.4</privateIp>
          </nic>
          <nic>
            <management>1</management>
            <networkId>8O0NW7TZV-N-1ot2#FWS#</networkId>
            <nicNo>1</nicNo>
            <privateIp>192.168.0.3</privateIp>
          </nic>
        </nics>
        <lserverId>tenantA-8O0NW7TZV-S-0001</lserverId>
        <lserverName>lserver-1</lserverName>
        <lserverStatus>RUNNING</lserverStatus>
        <serverType>Economy</serverType>
        <priority>10</priority>
      </lserver>
      <lserver>
        <cpuPerf>1.2</cpuPerf>
        <creator>tenantA</creator>
        <diskimageId>image-1324e09f82f</diskimageId>
        <diskimageName>g-vm-0002</diskimageName>
        <hostName>V8O0NW7TZV0002</hostName>
        <memorySize>1.6</memorySize>
        <numOfCpu>1</numOfCpu>
        <storagePool>/StoragePool</storagePool>
        <lserverType>Virtual</lserverType>
        <disks/>
        <vmPool>/VMHostPool</vmPool>
        <vmType>VMware</vmType>
        <nics>
          <nic>
            <management>0</management>
            <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
            <nicNo>3</nicNo>
```

```
            <privateIp>192.168.0.2</privateIp>
          </nic>
          <nic>
            <management>0</management>
            <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
            <nicNo>2</nicNo>
            <privateIp>192.168.0.1</privateIp>
          </nic>
          <nic>
            <management>1</management>
            <networkId>8O0NW7TZV-N-1ot4#FWS#</networkId>
            <nicNo>1</nicNo>
            <privateIp>192.168.0.0</privateIp>
          </nic>
        </nics>
        <lserverId>tenantA-8O0NW7TZV-S-0002</lserverId>
        <lserverName>lserver-1</lserverName>
        <lserverStatus>RUNNING</lserverStatus>
        <serverType>over_commit</serverType>
        <priority>20</priority>
      </lserver>
    </lservers>
    <lplatformId>tenantA-8O0NW7TZV</lplatformId>
    <lplatformName>firewall-test</lplatformName>
  </lplatform>
</GetLPlatformConfigurationResponse>
```

7.3.2.7 GetLPlatformAttributes (Gets the Attributes of a L-Platform)

This API gets attribute information for a L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en ": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLPlatformAttributes".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLPlatformAttributes -version <version ID> -locale <language code> -userId <user ID>
 -password <password> -orgId <tenant name> -lplatformId <L-Platform ID>
```

Response

<Status code>

The API returns "200 OK " if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformAttributesResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatform>
    <baseDescriptor>[Template ID from which the L-Platform was created]</baseDescriptor>
    <creator>[tenant name of the person who created the system]</creator>
    <ownerUser>[The user ID of the person who owns the L-Platform]</ownerUser>
    <description>[L-Platform description]</description>
    <lplatformId>[L-Platform ID]</lplatformId>
    <lplatformName>[L-Platform name]</lplatformName>
  </lplatform>
</GetLPlatformAttributesResponse>
```

<Elements>

Element name	Item	Item description
GetLPlatformAttributesResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.

Element name	Item	Item description
	Type	ASCII string.
	Number of occurrences	1.
lplatform	Description	Element holding the response information for the L-Platform information.
	Type	None.
	Number of occurrences	0 or 1.
baseDescriptor	Description	Template ID from which the L-Platform was created.
	Type	ASCII string.
	Number of occurrences	0 or 1.
creator	Description	The tenant name of the person who created the L-Platform.
	Type	ASCII string.
	Number of occurrences	0 or 1.
ownerUser	Description	The user ID of the person who owns the L-Platform.
	Type	ASCII string.
	Number of occurrences	0 or 1.
description	Description	L-Platform description.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
lplatformName	Description	L-Platform name.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformAttributesResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lplatform>
    <baseDescriptor>template-132149ef229</baseDescriptor>
    <creator>tenantA</creator>
    <ownerUser>user1</ownerUser>
    <description>desc</description>
    <lplatformId>tenantA-VBMS7X11R</lplatformId>
    <lplatformName>testTemplateA</lplatformName>
```

```
    </lplatform>
</GetLPlatformAttributesResponse>
```

7.3.2.8 ListNetworkInfo(Gets Network Information for a L-Platform)

This API gets network information for the target L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListNetworkInfo".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
ListNetworkInfo -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> -lplatformId <L-Platform ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListNetworkInfoResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <networks>
```

```
    <network>
      <networkId>[Network ID]</networkId>
      <name>[Network name]</name>
      <networkCategory>[Network type]</networkCategory>
      <addressSet>
        <name>[Address set name]</name>
        <subnet>[Subnet address of the address set]</subnet>
        <mask>[Netmask of the address set]</mask>
        <start>[Leading address of the address set]</start>
        <end>[End address of the address set]</end>
      </addressSet>
      <excludeaddressranges>
        <excludeaddressrange>
          <start>[Leading address of the excluded addresses]</start>
          <end>[End address of the excluded addresses]</end>
        </excludeaddressrange>
      </excludeaddressranges>
      <addressSetStatus>
        <num>[Total number of addresses in the address set]</num>
        <used>[Number of reserved addresses in the address set]</used>
        <avail>[Number of vacant addresses in the address set]</avail>
      </addressSetStatus>
    </network>
  </networks>
</ListNetworkInfoResponse>
```

<Elements>

Element name	Item	Item description
ListNetworkInfoResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
networks	Description	Element holding the response information for the network information.
	Type	None.
	Number of occurrences	0 or 1.

Element name	Item	Item description
network	Description	Set of network information.
	Type	None.
	Number of occurrences	0 or more.
networkId	Description	Network ID.
	Type	ASCII string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
name	Description	L-Platform name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
networkCategory	Description	Network type. For manager LAN, the value is "MANAGEMENT". For business LAN, the value is "BUSINESS". If the network has not been registered, the value is an empty string.
	Type	ASCII string.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
numOfMaxVm	Description	Maximum number of VMs.
	Type	int
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
segmentType	Description	Segment type information.
	Type	string UTF-8
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
addressSet	Description	Set of address set information.
	Type	None.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
name	Description	Address set name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
subnet	Description	The subnet address of the address set.
	Type	ASCII string.
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
mask	Description	The netmask of the address set.
	Type	ASCII string.
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
start	Description	The leading address of the address set.

Element name	Item	Item description
	Type	ASCII string.
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
end	Description	The end address of the address set.
	Type	ASCII string.
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
excludeaddressranges	Description	Element holding the response information for the excluded address information.
	Type	None.
	Number of occurrences	0 or 1.
excludeaddressrange	Description	Set of excluded address information.
	Type	None.
	Number of occurrences	0 or more.
start	Description	The leading address of the excluded addresses.
	Type	ASCII string.
	Number of occurrences	As many as there are excludeaddressrange elements (0 or 1 element for each excludeaddressrange element).
end	Description	The end address of the excluded addresses.
	Type	ASCII string.
	Number of occurrences	As many as there are excludeaddressrange elements (0 or 1 element for each excludeaddressrange element).
addressSetStatus	Description	Set of address set status information.
	Type	None.
	Number of occurrences	0 or 1.
num	Description	Number of addresses in the address set.
	Type	int.
	Number of occurrences	As many as there are addressSetStatus elements (0 or 1 element for each addressSetStatus element).
used	Description	Number of reserved addresses in the address set.
	Type	int.
	Number of occurrences	As many as there are addressSetStatus elements (0 or 1 element for each addressSetStatus element).
avail	Description	Number of vacant addresses in the address set.
	Type	int.
	Number of occurrences	As many as there are addressSetStatus elements (0 or 1 element for each addressSetStatus element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ListNetworkInfoResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <networks>
    <network>
      <addressSet>
        <end>192.xxx.xxx.xxx</end>
        <mask>255.xxx.xxx.xxx</mask>
        <name>addr_set10</name>
        <start>192.xxx.xxx.xxx</start>
        <subnet>192.xxx.xxx.xxx</subnet>
      </addressSet>
      <addressSetStatus>
        <avail>138</avail>
        <num>140</num>
        <used>2</used>
      </addressSetStatus>
      <networkCategory>BUSINESS</networkCategory>
      <networkId>testorg-lplatform-3-N-INTRANET</networkId>
      <numOfMaxVm>10</numOfMaxVm>
      <segmentType>DMZ</segmentType>
    </network>
    <network>
      <addressSet>
        <mask>255.xxx.xxx.xxx</mask>
        <name>addr_set20</name>
        <subnet>192.xxx.xxx.xxx</subnet>
      </addressSet>
      <addressSetStatus>
        <avail>116</avail>
        <num>120</num>
        <used>4</used>
      </addressSetStatus>
      <excludeaddressranges>
        <excludeaddressrange>
          <end>192.xxx.xxx.xxx</end>
          <start>192.xxx.xxx.xxx</start>
        </excludeaddressrange>
      </excludeaddressranges>
      <networkCategory>MANAGEMENT</networkCategory>
      <networkId>testorg-lplatform-3-N-INTERNET</networkId>
    </network>
  </networks>
</ListNetworkInfoResponse>
```

7.3.2.9 StartLPlatform (Performs Batch Power-On for Servers Included in an L-Platform)

This API performs batch power-on for the servers included in an L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".

Parameter name	Item	Item description
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "StartLPlatform".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 31 characters.

Command

```
StartLPlatform -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> -lplatformId <L-Platform ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<StartLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</StartLPlatformResponse>
```

<Elements>

Element name	Item	Item description
StartLPlatformResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.

Element name	Item	Item description
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<StartLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</StartLPlatformResponse>
```

7.3.2.10 StopLPlatform (Performs Batch Power-Off for Servers Included in an L-Platform)

This API performs batch power-off for the servers included in an L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "StopLPlatform".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 31 characters.

Command

```
StopLPlatform -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> -lplatformId <L-Platform ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<StopLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</StopLPlatformResponse>
```

<Elements>

Element name	Item	Item description
StopLPlatformResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<StopLPlatformResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
```

```
  <responseStatus>SUCCESS</responseStatus>
</StopLPLatformResponse>
```

7.3.2.11 StartTenantLServers(Performs Batch Power-On for Servers Included in a Tenant)

This API performs batch power-on for the servers included in a Tenant.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "StartTenantLServers".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
StartTenantLServers -version <version ID> -locale <language code> -userId <user ID> -password
<password>
 -orgId <tenant name>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<StartTenantLServersResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</StartTenantLServersResponse>
```

<Elements>

Element name	Item	Item description
StartTenantLServersResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<StartTenantLServersResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</StartTenantLServersResponse>
```

7.3.2.12 StopTenantLServers (Performs Batch Power-Off for Servers Included in a Tenant)

This API performs batch power-off for the servers included in a Tenant.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "StopTenantLServers".

Parameter name	Item	Item description
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
StopTenantLServers –version <version ID> –locale <language code> –userId <user ID> –password
<password>
 –orgId <tenant name>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<StopTenantLServersResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</StopTenantLServersResponse>
```

<Elements>

Element name	Item	Item description
StopTenantLServersResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<StopTenantLServersResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</StopTenantLServersResponse>
```

7.3.3 Operations on Server

This section explains the L-Platform APIs relating to operations on server.

7.3.3.1 CreateLServer (Creates a New Server)

This API creates a server within a L-Platform. The user must always specify the ID of the disk image that is used as the initial content required for the startup disk. The request message is encoded using UTF-8.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "CreateLServer".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverName	Description	Server name.
	Type	UTF-8 string.
	Value	No more than 85 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "
serverType	Description	Server type.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 32 characters.
lserverType	Description	Server type.
	Type	ASCII string.
	Value	Specify one of the following: - "Physical": Physical server. - "Virtual": Virtual server. If this parameter is omitted, the default value is "Virtual".
diskImageId	Description	Disk image ID.
	Type	ASCII string.
	Value	No more than 32 characters.
controlNetworkId	Description	The ID of the network connected to the control NIC.
	Type	ASCII string.
	Value	If a physical server is to be created, the network ID of the management LAN must be specified. When specifying the IP address of the control NIC, specify the network ID using the following format: controlNetworkId=network_id'xxx:xxx:xxx:xxx
[networkId]	Description	The ID of a network other than the control NIC.
	Type	ASCII string.
	Value	If there are multiple NICs, specify the network ID using the following format: networkId=network_1' 'network_2 When specifying the IP address, specify the network ID using the following format: networkId=network_1'xxx:xxx:xxx:xxx' 'network_2'xxx:xxx:xxx:xxx
[pool]	Description	The resource name of the VM pool or server pool.
	Type	ASCII string.
	Value	If a tenant pool is to be used, the full path name must be used to specify the pool name. This must be specified when using RHEL-KVM. Example: /tenantA/pool
[storagePool]	Description	The resource name of the storage pool.
	Type	ASCII string.
	Value	If a tenant pool is to be used, the full path name must be used to specify the pool name. This must be specified when using RHEL-KVM. Example: /tenantA/pool
[cpuPerf]	Description	CPU performance. The value must be specified in GHz, up to one decimal place. Specify a value that is no less than 0.1 and no more than the maximum value specified by the image (or no more than 99999.9 if the maximum value has not been specified). This is ignored even if it is specified when using RHEL-KVM, and the maximum CPU performance value for the pool is set.
	Type	decimal.
	Value	0.1 to 99999.9

Parameter name	Item	Item description
[numOfCpu]	Description	Number of CPUs.
	Type	int.
	Value	1 or more. The maximum value is the value that has been specified for each image (or the maximum value for the INT type if no value has been specified).
[cpuReserve]	Description	Reserved CPU performance. Specify a value that is no less than 0.0 and no more than the maximum value specified by either cpuPerf or the image (or no more than 99999.9 if neither of these have been specified).
	Type	decimal.
	Value	0.0 to 99999.9.
[cpuShare]	Description	CPU allotment ratio. [When VM type is VMware] CPU Shares. [When VM type is Hyper-V] CPU Weight. For physical servers, this will be ignored even if specified.
	Type	int.
	Value	1 to 1000000. [When VM type is VMware] 1 to 1000000. [When VM type is Hyper-V] 1 to 10000.
[memorySize]	Description	Amount of memory. The value must be specified in GB, up to one decimal place. Specify a value that is no less than 0.1 and no more than the maximum value specified by the image (or no more than 99999.9 if the maximum value has not been specified).
	Type	decimal.
	Value	0.1 to 99999.9
[memoryReserve]	Description	Reserved memory capacity. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). [When VM type is VMware] Reserved memory capacity. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). [When VM type is Hyper-V] Reserved memory capacity. Specify a value that is no less than 0.1 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). For physical servers, this will be ignored even if specified.
	Type	decimal.
	Value	0.0 to 99999.9. [When VM type is VMware] 0.0 to 99999.9. [When VM type is Hyper-V] 0.1 to 99999.9.
[memoryShare]	Description	Memory allotment ratio. [When VM type is VMware] Memory Shares. [When VM type is Hyper-V] Memory Weight. For physical servers, this will be ignored even if specified.
	Type	int.

Parameter name	Item	Item description
	Value	0 to 1000000. [When VM type is VMware] 0 to 1000000. [When VM type is Hyper-V] 0 to 10000.
[macAddress]	Description	Address set resource name of the MAC address. This value can be specified for RHEL-Xen. When this value is omitted, the default value specified in the setup file will be used. For other than RHEL-Xen, this value will be ignored even if specified.
	Type	ASCII string.
	Value	No more than 32 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "
[priority]	Description	Priority startup levels when performing batch power supply controls. These values will be started up from small servers. When omitted, the value is set to 128.
	Type	int
	Value	1 to 256

Command

```
CreateLServer -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> -lplatformId <L-Platform ID> -lserverName <server name>
 -lserverType <server type> -diskImageId <disk image ID> -controlNetworkId <network ID of control NIC>
 [-networkId <network ID of other than control NIC>] [-pool <resource name of VM pool>]
 [-storagePool <resource name of storage pool>] [-cpuPerf <CPU performance>]
 [-numOfCpu <number of CPUs>] [-cpuReserve <CPU reserve performance>]
 [-cpuShare <CPU allotment ratio>] [-memorySize <memory capacity>]
 [-memoryReserve <reserved memory capacity>] [-memoryShare <memory allotment ratio>]
 [-macAddress <address set resource name of MAC address >] [-priority <power priority>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lserverId>[Server ID]</lserverId>
</CreateLServerResponse>
```

<Elements>

Element name	Item	Item description
CreateLServerResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.

Element name	Item	Item description
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lserverId	Description	Server ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<CreateLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lserverId>LSERVER000001</lserverId>
</CreateLServerResponse>
```

7.3.3.2 ListLServer (Gets a List of Servers in a L-Platform)

This API gets a list of server IDs within a L-Platform.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListLServer".

Parameter name	Item	Item description
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
ListLServe- -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ListLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lservers>
    <lserver>
      <creator>[Tenant name of the person who created the server]</creator>
      <diskimageId>[Disk image ID]</diskimageId>
      <diskimageName>[Disk image name]</diskimageName>
      <disks>
        <disk>
          <attachedTo>[ID of the virtual machine to which the additional disk has been attached]</
attachedTo>
          <creator>[Tenant name of the person who created the additional disk]</creator>
          <size>[Size of the additional disk]</size>
          <diskId>[ID of the additional disk]</diskId>
          <diskName>[Name of the additional disk]</diskName>
          <resourceName>[Name of the Existing disk]</resourceName>
        </disk>
      </disks>
      <lserverId>[Server ID]</lserverId>
      <lserverName>[Server name]</lserverName>
      <serverType>[Server type]</serverType>
      <lserverType>[Server type]</lserverType>
    </lserver>
  </lservers>
</ListLServerResponse>
```

<Elements>

Element name	Item	Item description
ListLServerResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lservers	Description	Element holding the response information for the server information.
	Type	None.
	Number of occurrences	0 or 1.
lserver	Description	Set of server information.
	Type	None.
	Number of occurrences	0 or more.
creator	Description	The tenant name of the person who created the server.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageId	Description	Disk image ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageName	Description	Disk image name.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
disks	Description	Element holding the response information for the additional disk information.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

Element name	Item	Item description
disk	Description	Set of additional disk information.
	Type	None.
	Number of occurrences	0 or more.
attachedTo	Description	The ID of the virtual machine to which the additional disk has been attached.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
creator	Description	The tenant name of the person who created the additional disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
size	Description	The size of the additional disk. Specify this value in GB.
	Type	decimal.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskId	Description	The ID of the additional disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskName	Description	The name of the additional disk.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
resourceName	Description	Name of the Existing disk
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
lserverId	Description	Server ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverName	Description	Server name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
serverType	Description	Server type.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverType	Description	Server type. One of the following: "Physical": Physical server. "Virtual": Virtual server.

Element name	Item	Item description
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ListLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lservers>
    <lserver>
      <creator>tenantA</creator>
      <diskimageId>image-1324e093f4e</diskimageId>
      <diskimageName>g-physical-0001</diskimageName>
      <lserverType>Physical</lserverType>
      <disks/>
      <lserverId>tenantA-8O0NW7TZV-S-0001</lserverId>
      <lserverName>Pysical-1</lserverName>
      <serverType>Economy</serverType>
    </lserver>
    <lserver>
      <creator>tenantA</creator>
      <diskimageId>image-1324e09f82f</diskimageId>
      <diskimageName>g-vm-0002</diskimageName>
      <lserverType>Virtual</lserverType>
      <disks>
        <disk>
          <attachedTo>tenantA-8O0NW7TZV-S-0002</attachedTo>
          <creator>tenantA</creator>
          <size>20.0</size>
          <diskId>tenantA-8O0NW7TZV-D-0001</diskId>
          <diskName>DISK1</diskName>
        </disk>
      </disks>
      <lserverId>tenantA-8O0NW7TZV-S-0002</lserverId>
      <lserverName>Virtual-1</lserverName>
      <serverType>over_commit</serverType>
    </lserver>
  </lservers>
</ListLServerResponse>
```

7.3.3.3 DestroyLServer (Deletes Server)

This API removes a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "DestroyLServer".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
DestroyLServer -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID>> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroyLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</DestroyLServerResponse>
```

<Elements>

Element name	Item	Item description
DestroyLServerResponse	Description	Element holding the response information.
	Type	None.

Element name	Item	Item description
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroyLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</DestroyLServerResponse>
```

7.3.3.4 RestoreLServer (Restores a Server from a Snapshot)

This API restores a server to the status of a snapshot.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "RestoreLServer".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.

Parameter name	Item	Item description
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	The ID of the server to be restored.
	Type	ASCII string.
	Value	No more than 32 characters.
snapshotId	Description	The ID of the snapshot that is used to restore the server.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
RestoreLServer -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
 -lplatformId <L-Platform ID> -lserverId <server ID> -snapshotId <snapshot ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<RestoreLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</RestoreLServerResponse>
```

<Elements>

Element name	Item	Item description
RestoreLServerResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.

Element name	Item	Item description
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<RestoreLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</RestoreLServerResponse>
```

7.3.3.5 StartLServer (Starts a Server)

This API starts the operating system in a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "StartLServer".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Parameter name	Item	Item description
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
StartLServer -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<StartLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</StartLServerResponse>
```

<Elements>

Element name	Item	Item description
StartLServerResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<StartLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</StartLServerResponse>
```

7.3.3.6 StopLServer (Stops a Server)

This API stops the operating system in a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "StopLServer".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
[force]	Description	This parameter indicates whether to forcibly terminate the server. If this parameter is omitted, the default value is "false".
	Type	ASCII string.
	Value	Select one of the following values: "true": Forcibly terminates the virtual machine. "false": Does not forcibly terminate the virtual machine.

Command

```
StopLServer -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID> [-force <forced termination>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<StopLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</StopLServerResponse>
```

<Elements>

Element name	Item	Item description
StopLServerResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<StopLServerResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</StopLServerResponse>
```

7.3.3.7 GetLServerStatus (Gets the Status of a Server)

This API gets status information for a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLServerStatus".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLServerStatus -version <version ID> -locale <language code> -userId <user ID> -password <password>
-orgId <tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerStatusResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
```

```
    <responseMessage>[Message]</responseMessage>
    <responseStatus>[Status]</responseStatus>
    <lserverStatus>[Server status]</lserverStatus>
</GetLServerStatusResponse>
```

<Elements>

Element name	Item	Item description
GetLServerStatusResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lserverStatus	Description	Server status. One of the following values: "DEPLOYING": The server is being deployed. "RUNNING": The server is running. "STOPPING": The server is stopping. "STOPPED": The server is stopped. "STARTING": The server is starting. "UNEXPECTED_STOP": The server has stopped unexpectedly. "RESTORING": The server is being restored. "BACKUP_ING": The servere is being backed up. "ERROR": An error has occurred on the server. "EXECUTE_IPCOM": Configuration information for an IPCOM network server is being processed. "START_ERROR": An error has occurred when the server is starting. "STOP_ERROR": An error has occurred when the server is stopping.
	Type	ASCII string.
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerStatusResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
```

```
   <lserverStatus>RUNNING</lserverStatus>
</GetLServerStatusResponse>
```

7.3.3.8 GetLServerConfiguration (Gets Configuration Information for a Server)

This API gets configuration information for a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLServerConfiguration".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLServerConfiguration -version <version ID> -locale <language code> -userId <user ID> -password
<password>
 -orgId <tenant name> -lplatformId <L-Platform ID> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lserver>
    <creator>[Tenant name of the person who created the server]</creator>
    <diskimageId>[Disk image ID]</diskimageId>
    <diskimageName>[Disk image name]</diskimageName>
    <image>
      <cpuBit>[Number of bits for the CPU]</cpuBit>
      <id>[Image ID]</id>
      <numOfMaxDisk>[Maximum number of disks]</numOfMaxDisk>
      <numOfMaxNic>[Maximum number of NICs]</numOfMaxNic>
      <serverApplication>[Server usage]</serverApplication>
      <serverCategory>[Server type]</serverCategory>
      <softwares>
        <software>
          <category>[Software category]</category>
          <softwareId>[Software ID]</softwareId>
          <license>[License information]</license>
          <name>[Software name]</name>
          <officialVersion>[Official version]</officialVersion>
          <patch>[Patch version number]</patch>
          <support>[Support]</support>
          <version>[Version]</version>
        </software>
      </softwares>
      <patches>
        <patch>
          <softwareId>[Software ID]</softwareId>
          <patchId>[Patch ID]</patchId>
          <componentName>[Component name]</componentName>
          <description>[Patch description]</description>
        </patch>
      </patches>
      <sysvolSize>[Size of the system volume]</sysvolSize>
    </image>
    <disks>
      <disk>
        <attachedTo>[ID of the virtual machine to which the additional disk has been attached]</
attachedTo>
        <creator>[Tenant name of the person who created the additional disk]</creator>
        <size>[Size of the additional disk]</size>
        <diskId>[ID of the additional disk]</diskId>
        <diskName>[Name of the additional disk]</diskName>
        <resourceName>[Name of the Existing disk]</resourceName>
        <shared>[The shared disk attribute]</shared>
        <stragePool>[The resource name of the storage pool]</stragePool>
      </disk>
    </disks>
    <nicgroups>
      <nicgroup>
        <nicgroupIndex>[NIC group index to which the server belongs]</nicgroupIndex>
        <networkId>[Network ID]</networkId>
        <privateIp>[IP address]</privateIp>
        <management>[Control NIC]</management>
      </nicgroup>
    </nicgroups>
    <nics>
      <nic>
        <networkId>[Network ID]</networkId>
```

```
          <nicNo>[NIC serial number]</nicNo>
          <privateIp>[IP addresses]</privateIp>
          <management>[Control NIC]</management>
          <nicgroupIndex>[NIC group index to which the server belongs]</nicgroupIndex>
        </nic>
      </nics>
      <lserverId>[Server ID]</lserverId>
      <lserverName>[Server name]</lserverName>
      <hostName>[Host name of server]</hostName>
      <serverType>[Server type]</serverType>
      <vmType>[VM type]</vmType>
      <pool>[Resource name of the VM pool]</pool>
      <storagePool>[Resource name of the storage pool]</storagePool>
      <cpuPerf>[CPU performance]</cpuPerf>
      <numOfCpu>[Number of CPUs]</numOfCpu>
      <cpuReserve>[CPU reserve performance]</cpuReserve>
      <cpuShare>[CPU allotment ratio]</cpuShare>
      <memorySize>[Memory size]</memorySize>
      <memoryReserve>[reserved memory capacity]</memoryReserve>
      <memoryShare>[memory allotment ratio]</memoryShare>
      <requestCpuPerf>[Requested CPU performance]</requestCpuPerf>
      <requestNumOfCpu>[Requested number of CPUs]</requestNumOfCpu>
      <requestMemorySize>[Requested memory capacity]</requestMemorySize>
      <priority>[Power priority]</priority>
      <task>
        <taskId>[Task ID]</taskId>
        <type>[Task type]</type>
        <status>[Task status]</status>
        <progress>[Task progress]</progress>
      </task>
    </lserver>
  </lserver>
</GetLServerConfigurationResponse>
```

<Elements>

Element name	Item	Item description
GetLServerConfigurationResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Element name	Item	Item description
lserver	Description	Set of server information.
	Type	None.
	Number of occurrences	0 or 1.
creator	Description	The tenant name of the person who created the server.
	Type	ASCII string.
	Number of occurrences	0 or 1.
diskimageId	Description	Disk image ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
diskimageName	Description	Disk image name.
	Type	ASCII string.
	Number of occurrences	0 or 1.
image	Description	Set of image information.
	Type	None.
	Number of occurrences	0 or 1.
cpuBit	Description	Number of bits for the CPU. One of the following values: "32": 32 bit CPU. "64": 64 bit CPU.
	Type	ASCII string.
	Number of occurrences	0 or 1.
id	Description	Image ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
numOfMaxDisk	Description	Maximum number of disks.
	Type	int.
	Number of occurrences	0 or 1.
numOfMaxNic	Description	Maximum number of NICs.
	Type	int.
	Number of occurrences	0 or 1.
serverApplication	Description	Server usage. One of the following values: "WEB": Web server. "AP": Application server. "DB": Database server. "FILE": File server.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	0 or 1.
serverCategory	Description	Server type. The value of this item is "GENERAL", indicating a generic server.
	Type	ASCII string.
	Number of occurrences	0 or 1.
softwares	Description	Element holding the response information for the software information.
	Type	None.
	Number of occurrences	0 or 1.
software	Description	Set of software information.
	Type	None.
	Number of occurrences	0 or more.
category	Description	Software category. One of the following values: "OS": Operating system. "MIDDLE": Middleware. "APP": Application.
	Type	ASCII string
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
softwareId	Description	Software ID.
	Type	ASCII string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
license	Description	License.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
name	Description	Software name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element)
officialVersion	Description	Official version
	Type	UTF-8 string
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patch	Description	Patch version.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
support	Description	Support.

Element name	Item	Item description
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
version	Description	Version number.
	Type	UTF-8 string.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patches	Description	Element holding the response information for the patch information.
	Type	None.
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patch	Description	Set of patch information.
	Type	None.
	Number of occurrences	0 or more.
softwareId	Description	Software ID.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
patchId	Description	Patch ID.
	Type	ASCII string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
componentName	Description	Component name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
description	Description	Patch description.
	Type	UTF-8 string.
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
sysvolSize	Description	The size of the system volume.
	Type	decimal.
	Number of occurrences	0 or 1.
disks	Description	Element holding the response information for the additional disk information.
	Type	None.
	Number of occurrences	0 or 1.
disk	Description	Set of additional disk information.
	Type	None.

Element name	Item	Item description
	Number of occurrences	0 or more.
attachedTo	Description	The ID of the virtual machine to which the additional disk has been attached.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
creator	Description	The tenant name of the person who created the additional disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
size	Description	The size of the additional disk. Specify this value in GB.
	Type	decimal.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskId	Description	The ID of the additional disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskName	Description	The name of the additional disk.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
resourceName	Description	The name of the existing disk. This element will be displayed for existing disks only.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
shared	Description	The shared disk attribute.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
storagePool	Description	The resource name of the storage pool.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
nics	Description	Element holding the response information for the NIC information.
	Type	None.
	Number of occurrences	0 or 1.
nic	Description	Set of NIC information.
	Type	None.

Element name	Item	Item description
	Number of occurrences	0 or more.
networkId	Description	Network ID.
	Type	ASCII string.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicNo	Description	NIC serial number.
	Type	int.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
privateIp	Description	IP address.
	Type	ASCII string.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
	Type	int.
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroupIndex	Description	The NIC group index to which the server belongs. This will not be displayed if the server is not included in the NIC group.
	Type	int
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroups	Description	Element holding the response information for the NIC information.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
nicgroup	Description	Set of NIC information.
	Type	None.
	Number of occurrences	0 or more.
nicgroupIndex	Description	NIC group index.
	Type	int
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
networkId	Description	Network ID.
	Type	string ASCII
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
privateIp	Description	IP address.
	Type	string ASCII

Element name	Item	Item description
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
	Type	int
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
lserverId	Description	Server ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
lserverName	Description	Server name.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
hostName	Description	Host name of server
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
serverType	Description	Server type.
	Type	ASCII string.
	Number of occurrences	0 or 1.
vmType	Description	Virtual machine type. One of the following values: "VMware": VMware. " RHEL-Xen": RHEL5-Xen. "Hyper-V": Hyper-V. "RHEL-KVM": RHEL-KVM.
	Type	ASCII string.
	Number of occurrences	0 or 1.
pool	Description	The resource name of the VM pool.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
storagePool	Description	The resource name of the storage pool.
	Type	UTF-8 string.
	Number of occurrences	0 or 1.
cpuPerf	Description	CPU performance.
	Type	decimal.
	Number of occurrences	0 or 1.
numOfCpu	Description	Number of CPUs.

Element name	Item	Item description
	Type	int.
	Number of occurrences	0 or 1.
cpuReserve	Description	Reserved CPU performance.
	Type	decimal.
	Number of occurrences	0 or 1.
cpuShare	Description	CPU allotment ratio.
	Type	int.
	Number of occurrences	0 or 1.
memorySize	Description	Amount of memory.
	Type	decimal.
	Number of occurrences	0 or 1.
memoryReserve	Description	Reserved memory capacity.
	Type	decimal.
	Number of occurrences	0 or 1.
memoryShare	Description	Memory allotment ratio.
	Type	int.
	Number of occurrences	0 or 1.
requestCpuPerf	Description	Requested CPU performance.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestNumOfCpu	Description	Requested number of CPUs.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestMemorySize	Description	Requested memory capacity.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverType	Description	Server type. One of the following: "Physical": Physical server. "Virtual": Virtual server.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
task	Description	Set of information about the latest backup or restoration task.
	Type	None.

Element name	Item	Item description
	Number of occurrences	0 or 1.
taskId	Description	Task ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
type	Description	Task type. One of the following values: "BACKUP": Backup. "RESTORE": Restore.
	Type	ASCII string.
	Number of occurrences	0 or 1.
status	Description	Task status. One of the following values: "completed": The task has completed. "running": The task is running. "waiting": The task is on standby. "error": An error has occurred with the task.
	Type	ASCII string.
	Number of occurrences	0 or 1.
progress	Description	Task progress rate. The units are "%". The value is a number between 0 and 100.
	Type	int.
	Number of occurrences	0 or 1.
priority	Description	Priority startup levels are set to between 1 and 256 when performing batch power supply controls. These values will be started up from small servers. However, servers with a startup priority level of '0' are not eligible for batch power supply operations.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lserver>
    <cpuPerf>1.3</cpuPerf>
    <creator>testorg</creator>
    <diskimageId>image_id_1</diskimageId>
    <diskimageName>image-1</diskimageName>
    <image>
      <cpuBit>64</cpuBit>
      <id>image_id_1</id>
      <numOfMaxDisk>3</numOfMaxDisk>
      <numOfMaxNic>1</numOfMaxNic>
```

```xml
        <patches>
          <patch>
            <componentName>Component 1</componentName>
            <description>Description 1</description>
            <patchId>patch-sw1-01</patchId>
            <softwareId>SW00000001</softwareId>
          </patch>
          <patch>
            <componentName> Component 2</componentName>
            <description>Description 2</description>
            <patchId>patch-sw4-01</patchId>
            <softwareId>SW00000004</softwareId>
          </patch>
        </patches>
        <serverApplication>WEB</serverApplication>
        <serverCategory>GENERAL</serverCategory>
        <softwares>
          <software>
            <category>APP</category>
            <license>Fujitsu</license>
            <name>Interstage Application Server (Global edition)</name>
            <officialVersion>4</officialVersion>
            <patch>p-4</patch>
            <softwareId>SW00000004</softwareId>
            <support>SDK basics</support>
            <version>6.1</version>
          </software>
        </softwares>
        <sysvolSize>15.0</sysvolSize>
      </image>
      <memorySize>8.9</memorySize>
      <memoryReserve>0.5</memoryReserve>
      <memoryShare>1000</memoryShare>
      <numOfCpu>2</numOfCpu>
      <cpuReserve>0.5</cpuReserve>
      <cpuShare>10</cpuShare>
      <storagePool>/sp_3</storagePool>
      <task>
        <progress>100</progress>
        <status>completed</status>
        <taskId>task_00004</taskId>
        <type>RESTORE</type>
      </task>
      <disks>
        <disk>
          <attachedTo>testorg-vsys-3-S-0001</attachedTo>
          <creator>testorg</creator>
          <size>12.2</size>
          <storagePool>/sp_3</storagePool>
          <diskId>testorg-vsys-3-D-0001</diskId>
          <diskName>DISK1</diskName>
        </disk>
        <disk>
          <attachedTo>testorg-vsys-3-S-0001</attachedTo>
          <creator>testorg</creator>
          <size>15.5</size>
          <storagePool>/sp_6</storagePool>
          <diskId>testorg-vsys-3-D-0002</diskId>
          <diskName>DISK2</diskName>
        </disk>
      </disks>
      <pool>/vp_3</pool>
      <vmType>RHEL-Xen </vmType>
```

```
    <nics>
      <nic>
        <management>0</management>
        <networkId>testorg-vsys-3-N-INTRANET</networkId>
        <nicNo>1</nicNo>
        <privateIp>10.xx.xx.xx</privateIp>
      </nic>
      <nic>
        <management>0</management>
        <networkId>testorg-vsys-3-N-INTRANET</networkId>
        <nicNo>2</nicNo>
        <privateIp>10.xx.xx.xx</privateIp>
      </nic>
    </nics>
    <lserverId>testorg-lplatform-3-S-0001</lserverId>
    <lserverName>ap2</lserverName>
    <lserverType>island12_100</lserverType>
    <priority>10</priority>
  </lserver>
</GetLServerConfigurationResponse>
```

7.3.3.9 GetLServerAttributes (Gets the Attributes of a Server)

This API gets attribute information for a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLServerAttributes".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLServerAttributes -version <version ID> -locale <language code> -userId <user ID> -password
<password>
-orgId <tenant name> -lplatformId <L-Platform ID> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerAttributesResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lserver>
    <creator>[Tenant name of the person who created the virtual machine]</creator>
    <diskimageId>[Disk image ID]</diskimageId>
    <diskimageName>[Disk image name]</diskimageName>
    <disks>
      <disk>
        <attachedTo>[ID of the virtual machine to which the additional disk has been attached]</
attachedTo>
        <creator>[Tenant name of the person who created the additional disk]</creator>
        <size>[Size of the additional disk]</size>
        <diskId>[ID of the additional disk]</diskId>
        <diskName>[Name of the additional disk]</diskName>
        <resourceName>[Name of the Existing disk]</resourceName>
      </disk>
    </disks>
    <lserverId>[Server ID]</lserverId>
    <lserverName>[Server name]</lserverName>
    <hostName>[Host name of server]</hostName>
    <serverType>[Server type]</serverType>
  </lserver>
</GetLServerAttributesResponse>
```

<Elements>

Element name	Item	Item description
GetLServerAttributesResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.

Element name	Item	Item description
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
lserver	Description	Set of server information.
	Type	None.
	Number of occurrences	0 or 1.
creator	Description	The tenant name of the person who created the server.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageId	Description	Disk image ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
diskimageName	Description	Disk image name.
	Type	ASCII string.
	Number of occurrences	0 or 1.
disks	Description	Element holding the response information for the additional disk information.
	Type	None.
	Number of occurrences	0 or 1.
disk	Description	Set of additional disk information.
	Type	None.
	Number of occurrences	0 or more.
attachedTo	Description	The ID of the virtual machine to which the additional disk has been attached.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
creator	Description	The tenant name of the person who created the server.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
size	Description	The size of the additional disk. Specify this value in GB.
	Type	decimal.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskId	Description	The ID of the additional disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskName	Description	The name of the additional disk.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
resourceName	Description	The name of the existing disk. This element will be displayed for existing disks only.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
lserverId	Description	Server ID.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverName	Description	Server name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
hostName	Description	The host name of the server.
	Type	string UTF-8
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
serverType	Description	Server type.
	Type	ASCII string.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerAttributesResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <lserver>
    <creator>tenantA</creator>
    <diskimageId>image-1324e09f82f</diskimageId>
```

```
      <diskimageName>g-vm-0002</diskimageName>
      <hostName>V8O0NW7TZV0002</hostName>
      <disks>
        <disk>
          <attachedTo>tenantA-8O0NW7TZV-S-0002</attachedTo>
          <creator>tenantA</creator>
          <size>20.0</size>
          <diskId>tenantA-8O0NW7TZV-D-0001</diskId>
          <diskName>DISK1</diskName>
        </disk>
      </disks>
      <lserverId>tenantA-8O0NW7TZV-S-0002</lserverId>
      <lserverName>Virtual-1</lserverName>
      <serverType>over_commit</serverType>
    </lserver>
</GetLServerAttributesResponse>
```

7.3.3.10 GetLServerInitialPassword (Gets the Password for the Initial Administrator for the Operating System of a Server)

This API gets the initial password for the administrator for the operating system of a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetLServerInitialPassword".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetLServerInitialPassword -version <version ID> -locale <language code> -userId <user ID> -password
<password>
 -orgId <tenant name> -lplatformId <L-Platform ID> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerInitialPasswordResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <initialPassword>[the initial password for the administrator for the operating system of a server]</
initialPassword>
</GetLServerInitialPasswordResponse>
```

<Elements>

Element name	Item	Item description
GetLServerInitialPasswordResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
initialPassword	Description	The initial password for the administrator for the operating system of a server.
	Type	ASCII string.
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLServerInitialPasswordResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <initialPassword>init_pass</initialPassword>
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</GetLServerInitialPasswordResponse>
```

7.3.3.11 UpdateLServerConfiguration (Changes the Performance of a Server)

This API changes the performance of a virtual server.
This API cannot be executed for a physical server.
Always specify any one of the following:

- cpuPerf

- numOfCpu

- cpuReserve

- cpuShare

- memorySize

- memoryReserve

- memoryShare

- serverType

- priority

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "UpdateLServerConfiguration".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
[cpuPerf]	Description	CPU performance. The value must be specified in GHz, up to one decimal place. Specify a value that is no less than 0.1 and no more than the maximum value specified by the image (or no more than 99999.9 if the maximum value has not been specified).
	Type	decimal.
	Value	0.1 to 99999.9.
[numOfCpu]	Description	Number of CPUs.
	Type	int.
	Value	1 or more. The maximum value is the value specified for each image (or the maximum value for the INT type if no value has been specified).
[cpuReserve]	Description	Reserved CPU performance. Specify a value that is no less than 0.0 and no more than the maximum value specified by either cpuPerf or the image (or no more than 99999.9 if neither of these have been specified).
	Type	decimal.
	Value	0.0 to 99999.9.
[cpuShare]	Description	CPU allotment ratio. [When VM type is VMware] CPU Shares. [When VM type is Hyper-V] CPU Weight.
	Type	int.
	Value	1 to 1000000. [When VM type is VMware] 1 to 1000000 [When VM type is Hyper-V] 1 to 10000
[memorySize]	Description	Amount of memory. The value must be specified in GB, up to one decimal place. Specify a value that is no less than 0.1 and no more than the maximum value specified by the image (or no more than 99999.9 if the maximum value has not been specified).
	Type	decimal.
	Value	0.1 to 99999.9.
[memoryReserve]	Description	Reserved memory capacity. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). [When VM type is VMware] Memory Reserved. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). [When VM type is Hyper-V] Startup RAM. Specify a value that is no less than 0.1 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified).
	Type	decimal.

Parameter name	Item	Item description
	Value	to 99999.9. [When VM type is VMware] 0.0 to 99999.9 [When VM type is Hyper-V] 0.1 to 99999.9
[memoryShare]	Description	Memory allotment ratio. [When VM type is VMware] Memory Shares. [When VM type is Hyper-V] Memory Weight.
	Type	int.
	Value	0 to 1000000. [When VM type is VMware] 0 to 1000000. [When VM type is Hyper-V] 0 to 10000.
[serverType]	Description	Server type. The default performance values for the specified server type will be set. If this parameter is specified together with the CPU and memory performance parameters, the values for the CPU and memory performance will take precedence.
	Type	ASCII string.
	Value	No more than 32 characters.
[priority]	Description	Priority startup levels when performing batch power supply controls. These values will be started up from small servers. However, servers with a startup priority level of '0' are not eligible for batch power supply operations.
	Type	int
	Value	0 to 256

Command

```
UpdateLServerConfiguration -version <version ID> -locale <language code> -userId <user ID>
 -password <password> -orgId <tenant name> -lplatformId <L-Platform ID> -lserverId <server ID>
[-cpuPerf <CPU performance>][-numOfCpu <number of CPUs>]
[-cpuReserve <CPU reserve performance>] [-cpuShare <CPU allotment ratio>]
[-memorySize <memory capacity>] [-memoryReserve <reserved memory capacity>]
[-memoryShare <memory allotment ratio>] [-lserverType <server type>]
[-priority <power priority>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<UpdateLServerConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message] </responseMessage>
  <responseStatus>[Status]</responseStatus>
</UpdateLServerConfigurationResponse>
```

<Elements>

Element name	Item	Item description
UpdateLServerConfigurationResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<UpdateLServerConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</UpdateLServerConfigurationResponse>
```

7.3.3.12 CreateImage (Collects the Cloning Image of a Server)

This API collects the cloning image of a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "CreateImage".
userId	Description	The user ID of the user that executes the L-Platform API.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
name	Description	The image name to be given to the image to be created.
	Type	ASCII string.
	Value	No more than 32 characters.
imagePool	Description	The resource ID of the image pool.
	Type	ASCII string.
	Value	No more than 32 characters.
comment	Description	Comment.
	Type	UTF-8 string.
	Value	No more than 128 characters.

Command

```
CreateImage- -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID> -name <image name> - imagePoolResourceId
<resource ID of image pool>
-comment <comment>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateImageResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</CreateImageResponse>
```

<Elements>

Element name	Item	Item description
CreateImageResponse	Description	Element holding the response information.

Element name	Item	Item description
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<CreateImageResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</CreateImageResponse>
```

7.3.3.13 CreateSnapshot (Takes a Snapshot)

This API creates a snapshot for a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "CreateSnapshot".
userId	Description	The user ID of the user that executes the L-Platform API.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	The ID of the server for which a snapshot is to be created.
	Type	ASCII string.
	Value	No more than 32 characters.
comment	Description	A comment for the snapshot.
	Type	UTF-8 string.
	Value	No more than 128 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "

Command

```
CreateSnapshot -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
 -lplatformId <L-Platform ID> -lserverId <server ID> -comment <comment>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateSnapshotResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</CreateSnapshotResponse>
```

<Elements>

Element name	Item	Item description
CreateSnapshotResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.

Element name	Item	Item description
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateSnapshotResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</CreateSnapshotResponse>
```

7.3.3.14 ListSnapshot (Gets a List of Snapshots)

This API gets a list of snapshots.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListSnapshot".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	The ID of the server for which a list of snapshots is to be obtained.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
ListSnapshot -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListSnapshotResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <snapshots>
    <snapshot>
      <snapshotId>[Snapshot ID]</snapshotId>
      <comment>[Snapshot comment]</comment>
      <snapshotTime>[Date and time when a snapshot was created]</snapshotTime>
    </snapshot>
  </snapshots>
</ListSnapshotResponse>
```

<Elements>

Element name	Item	Item description
ListSnapshotResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned.

Element name	Item	Item description
		Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
snapshots	Description	Element holding the response information for the snapshot information.
	Type	None.
	Number of occurrences	0 or 1.
snapshot	Description	Set of snapshot information.
	Type	None.
	Number of occurrences	0 or more.
snapshotId	Description	Snapshot ID.
	Type	ASCII string.
	Number of occurrences	As many as there are snapshot elements (0 or 1 element for each snapshot element).
comment	Description	A comment for the snapshot.
	Type	UTF-8 string.
	Number of occurrences	As many as there are snapshot elements (0 or 1 element for each snapshot element).
snapshotTime	Description	Date and time when a snapshot was created.
	Type	UTF-8 string.
	Number of occurrences	As many as there are snapshot elements (0 or 1 element for each snapshot element).

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<ListSnapshotResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <snapshots>
    <snapshot>
      <comment>Comment</comment>
      <snapshotId>image000001</snapshotId>
      <snapshotTime>2010-11-12 10:00:11±09:00</snapshotTime>
    </snapshot>
    <snapshot>
      <comment>Comment</comment>
      <snapshotId>image000002</snapshotId>
      <snapshotTime>2010-11-12 10:00:11±09:00</snapshotTime>
    </snapshot>
  </snapshots>
</ListSnapshotResponse>
```

7.3.3.15 DestroySnapshot (Deletes Snapshots)

This API deletes snapshots.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "DestroySnapshot".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
snapshotId	Description	The ID of the snapshot to be deleted.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
DestroySnapshot -version <version ID> -locale <language code> -userId <user ID> -password <password>
-orgId <tenant name>
-lplatformId <L-Platform ID> -snapshotId <snapshot ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroySnapshotResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
```

```
    <responseMessage>[Message]</responseMessage>
    <responseStatus>[Status]</responseStatus>
</DestroySnapshotResponse>
```

<Elements>

Element name	Item	Item description
DestroySnapshotResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroySnapshotResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</DestroySnapshotResponse>
```

7.3.3.16 GetSnapshotHistory (Gets a History of Snapshots and Restorations)

This API gets a history of snapshots and restorations.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.

Parameter name	Item	Item description
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetSnapshotHistory".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	The ID of the server for which a history of snapshots and restorations is to be obtained.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
GetSnapshotHistory -version <version ID> -locale <language code> -userId <user ID> -password
<password> -orgId <tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetSnapshotHistoryResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <histories>
    <history>
      <action>[Action performed]</action>
      <snapshotId>[Snapshot ID]</snapshotId>
      <startTime>[The time when the snapshot or restoration started]</startTime>
      <endTime>[The time when the snapshot or restoration completed]</endTime>
      <status>[Status of the snapshot or restoration]</status>
      <progress>[Progress of the snapshot or restoration]</progress>
    </history>
  </histories>
</GetSnapshotHistoryResponse>
```

<Elements>

Element name	Item	Item description
GetSnapshotHistoryResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
histories	Description	Element holding the response information for the snapshot information.
	Type	None.
	Number of occurrences	0 or 1.
history	Description	Set of snapshot information.
	Type	None.
	Number of occurrences	0 or more.
action	Description	Action performed. One of the following values: SNAPSHOT: Created a snapshot. RESTORE: Restored to a snapshot.
	Type	ASCII string.
	Number of occurrences	As many as there are history elements (0 or 1 element for each history element).
startTime	Description	The time when the snapshot or restoration started.
	Type	ASCII string.
	Number of occurrences	As many as there are history elements (0 or 1 element for each history element).
endTime	Description	The time when the snapshot or restoration completed.
	Type	ASCII string.
	Number of occurrences	As many as there are history elements (0 or 1 element for each history element).
status	Description	Status of the snapshot or restoration. One of the following values: "waiting": The snapshot or restoration is in a waiting state.

Element name	Item	Item description
		"running": The snapshot or restoration is executing.
		"completed": The snapshot or restoration has completed.
		"error": An error has occurred with the snapshot or restoration.
	Type	ASCII string.
	Number of occurrences	As many as there are history elements (0 or 1 element for each history element).
progress	Description	Progress of the snapshot or restoration. This is a value between 0 and 100.
	Type	int.
	Number of occurrences	As many as there are history elements (0 or 1 element for each history element).
snapshotId	Description	Snapshot ID.
	Type	ASCII string.
	Number of occurrences	As many as there are history elements (0 or 1 element for each history element).

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetSnapshotHistoryResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  </histories>
    </history>
      <action>SNAPSHOT</action>
      <snapshotId>image000001</snapshotId>
      <startTime>2010-11-12 10:00:11±09:00</startTime>
      <endTime>2010-11-12 10:01:11±09:00</endTime>
      <status>completed</status>
      <progress>100</progress>
    </history>
    </history>
      <action>RESTORE</action>
      <snapshotId>image000001</snapshotId>
      <startTime>2010-11-12 10:20:11±09:00</startTime>
      <status>running</status>
      <progress>70</progress>
    </history>
  </histories>
</GetSnapshotHistoryResponse>
```

7.3.3.17 AddPatch (Adds Patch Information)

This API adds patch information to a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.

Parameter name	Item	Item description
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "AddPatch".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
softwareId	Description	Software ID.
	Type	ASCII string.
	Value	No more than 32 characters.
patchId	Description	Patch ID.
	Type	ASCII string.
	Value	No more than 32 characters. Any desired value can be specified. Specify the patch number and so on. If an existing ID is specified, the patch information for the specified ID will be updated. However, linefeed codes and the following characters cannot be specified: < > & ' "
[componentName]	Description	The name of the component to which the patch is to be applied. This element can be omitted if the patch specification does not include the concept of components.
	Type	UTF-8 string.
	Value	No more than 85 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "
[description]	Description	Description of the patch.
	Type	UTF-8 string.
	Value	No more than 85 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "

Command

```
AddPatch -version <version ID> -locale <language code> -userId <user ID> -password <password> -orgId
<tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID> -softwareId <software ID> -patchId <patch ID>
[-componentName <component name>] [-description <patch description>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<AddPatchResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</AddPatchResponse>
```

<Elements>

Element name	Item	Item description
AddPatchResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<AddPatchResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</AddPatchResponse>
```

7.3.3.18 DestroyPatch (Deletes Patch Information)

This API deletes patch information for a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "DestroyPatch".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
softwareId	Description	Software ID.
	Type	ASCII string.
	Value	No more than 32 characters.
patchId	Description	The ID of the patch to be deleted.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
DestroyPatch -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID> -lserverId <server ID> -softwareId <software ID> -patchId <patch ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroyPatchResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</DestroyPatchResponse>
```

<Elements>

Element name	Item	Item description
DestroyPatchResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroyPatchResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</DestroyPatchResponse>
```

7.3.3.19 CancelError (Cancels the Error Status of a Backup or Restoration Task)

This API releases the error status of any backup or restoration task that has been specified.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "CancelError".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
taskId	Description	The ID of the backup or restoration task whose error status is to be released.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
CancelError -version <version ID> -locale <language code> -userId <user ID> -password <password> -
orgId <tenant name>
-lplatformId <L-Platform ID> -taskId <task ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<CancelErrorResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</CancelErrorResponse>
```

<Elements>

Element name	Item	Item description
CancelErrorResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<CancelErrorResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</CancelErrorResponse>
```

7.3.4 Operations on Additional Disks

This section explains the L-Platform APIs relating to operations on additional disks.

7.3.4.1 CreateDisk (Adds Additional Disks)

This API attaches a new extension disk to a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.

Parameter name	Item	Item description
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "CreateDisk".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
diskSize	Description	Size of the extension disk to be attached. The size can be specified in GB, up to one decimal place.
	Type	decimal.
	Value	From 0.1 to 99999.9
diskName	Description	The name of the extension disk to be attached.
	Type	UTF-8 string.
	Value	No more than 85 characters.
[storagePool]	Description	The resource name of the storage pool for which the extension disk is to be created.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
CreateDisk -version <version ID> -locale <language code> -userId <user ID> -password <password>
-orgId <tenant name> -lplatformId <system ID> -lserverId <server ID> -diskSize <extension disk size>
 -diskName <extension disk name> [-storagePool <resource name of storage pool>]
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
```

```
    <diskId>[ID of the disk created]</diskId>
</CreateDiskResponse>
```

<Elements>

Element name	Item	Item description
CreateDiskResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
diskId	Description	The ID of the disk that has been created as a result of this operation.
	Type	ASCII string.
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <diskId>VDISK000001</diskId>
</CreateDiskResponse>
```

7.3.4.2 DestroyDisk (Deletes Additional Disks)

This API removes an extension disk from a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.

Parameter name	Item	Item description
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Select the following values: "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "DestroyDisk".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
diskId	Description	The ID of the extension disk to be removed.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
DestroyDisk -version <version ID> -locale <language code> -userId <user ID> -password <password>
-orgId <tenant name> -lplatformId <L-Platform ID> -lserverId <server ID> -diskId <extension disk ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<DestroyDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</DestroyDiskResponse>
```

<Elements>

Element name	Item	Item description
DestroyDiskResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<DetachDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</DetachDiskResponse>
```

7.3.4.3 ListDisk (Gets a List of Existing Disks)

This API gets a list of existing disks.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "ListDisk".
userId	Description	The user ID of the user that executes the L-Platform API.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
ListDisk -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListDiskResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <disks>
  <disk>
   <name>[Existing disk name]</name>
   <diskResourceId>[The resource ID of the existing disk]</diskResourceId>
   <label>[Existing disk label]</label>
   <comment>[Existing disk comment]</comment>
   <diskSize>[The size of the existing disk]</diskSize>
   <storagePool>[The resource name of the storage pool]</storagePool>
   <preCreated>[Precreated attribute]</preCreated>
   <status>[The status of the existing disk]</status>
  </disk>
 </disks>
</ListDiskResponse>
```

<Elements>

Element name	Item	Item description
ListDiskResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.

Element name	Item	Item description
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
disks	Description	Element holding the response information for the existing disk information.
	Type	None.
	Number of occurrences	0 or 1.
disk	Description	Set of existing disk information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Existing disk name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskResourceId	Description	The resource ID of the existing disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
label	Description	Existing disk label.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
comment	Description	Existing disk comment.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskSize	Description	The size of the existing disk. The units are "GB".
	Type	Decimal.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
storagePool	Description	The resource name of the storage pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
preCreated	Description	Precreated attribute.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
status	Description	The status of the existing disk.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<ListDiskResponse>
 <responseMessage>PAPI00000 Processing was completed.</responseMessage>
 <responseStatus>SUCCESS</responseStatus>
 <disks>
  <disk>
   <name>small-disk</name>
   <diskResourceId>disk-1241</diskResourceId>
   <label>disk-0001</label>
   <comment>comment</comment>
   <size>30.0</size>
   <storagePool>/StoragePool</storagePool>
   <status>normal</status>
  </disk>
 </disks>
</ListDiskResponse>
```

7.3.4.4 AttachDisk (Attaches an Existing Disk)

This API attaches an existing extension disk to a server.

Use ListDisk to get a list of existing disks to attach.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "AttachDisk".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.

Parameter name	Item	Item description
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	System ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
diskResourceId	Description	The resource ID of the existing disk to be attached.
	Type	ASCII string.
	Value	No more than 32 characters.
diskName	Description	The name of the existing disk to be attached.
	Type	UTF-8 string.
	Value	No more than 85 characters. The name of an existing disk need not be specified.

Command

```
AttachDisk -version <version ID> -locale <language code> -userId <user ID> -password <password>
-orgId <tenant name> -lplatformId <L-Platform ID> -lserverId <server ID>
-diskResourceId <resource ID of existing disk>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<AttachDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <diskId>[Created disk ID]</diskId>
</AttachDiskResponse>
```

<Elements>

Element name	Item	Item description
AttachDiskResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.

Element name	Item	Item description
	Type	UTF-8 string.
	Number of occurrences	1.
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.
diskId	Description	The ID of the disk created by this operation.
	Type	ASCII string.
	Number of occurrences	0 or 1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<AttachDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <diskId>VDISK000001</diskId>
</AttachDiskResponse>
```

7.3.4.5 DetachDisk (Detaches an Existing Disk)

This API detaches an extension disk that has been attached to a server.

Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string.
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string.
	Value	Fixed. Select "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "DetachDisk".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 31 characters.

Parameter name	Item	Item description
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string.
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string.
	Value	No more than 32 characters.
diskId	Description	The ID of the extension disk to be detached.
	Type	ASCII string.
	Value	No more than 32 characters.

Command

```
DetachDisk -version <version ID> -locale <language code> -userId <user ID> -password <password>
 -orgId <tenant name> -lplatformId <L-Platform ID> -lserverId <server ID> -diskId <extension disk ID>
```

Response

<Status code>

The API returns "200 OK" if it terminates normally.

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<DetachDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
</DetachDiskResponse>
```

<Elements>

Element name	Item	Item description
DetachDiskResponse	Description	Element holding the response information.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Messages Starting with PAPI" in the "Messages CE" for message details.
	Type	UTF-8 string.
	Number of occurrences	1.

Element name	Item	Item description
responseStatus	Description	Status. This element indicates whether the request has been processed normally. "SUCCESS" is returned if the request is processed normally. Otherwise, an error code is returned. Refer to "7.4 List of Response Status Error Codes" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<DetachDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
</DetachDiskResponse>
```

7.4 List of Response Status Error Codes

This appendix explains the response status error codes for the L-Platform APIs.

The following table lists the error codes displayed in the <responseStatus> tags in the responses to L-Platform API requests:

Error code	Description
ACCESS_NOT_PERMIT	Access is not permitted.
ALREADY_ATTACHED	The disk has already been attached.
ALREADY_AUTO_EXISTS	The server has already been delivered automatically.
ALREADY_DELETED	The server has already been removed.
ALREADY_DEPLOYED	The server has already been deployed.
ALREADY_DETACHED	The disk has already been detached.
ALREADY_RELEASED	The server has already been returned.
ALREADY_STARTED	The server has already been started.
ALREADY_STOPPED	The server has already been stopped.
AUTHORITY_ERROR	A permissions error has occurred.
DISK_NAME_ALREADY_EXISTS	The disk name already exists.
ERROR	An unexpected error has occurred.
ILLEGAL_ADDRESS	The address is invalid.
ILLEGAL_CLASS	The class is invalid.
ILLEGAL_CONDITION	The condition is invalid.
ILLEGAL_STATE	The status is invalid. The resource is not in a status in which it can execute processing.
ILLEGAL_SEGMENT_NUM	The number of segments is invalid.
ILLEGAL_TARGET	The target is invalid.
ILLEGAL_TYPE	The resource type is invalid.

Error code	Description
ILLEGAL_VSYS_ID	The management function ID is invalid.
MAX_COUNT_OVER	The maximum number of L-Platform that can be converted to a private template has been exceeded.
NOT_FOUND	There is a version specification error. The specified version does not exist.
NOT_PRIVATE_ADDRESS	An address that is not class A, B or C has been specified.
OUT_OF_BOUNDS_ERROR	The maximum number of characters has been exceeded.
OVER_LIMIT_ERROR	The maximum number of virtual networks or virtual machines that can be deployed has been exceeded.
PARAM_VALUE_ERROR	There is an error with a parameter setting.
RESOURCE_NOT_FOUND	The resource does not exist.
SERVER_NAME_ALREADY_EXISTS	The server name already exists.
SERVER_RUNNING	The server is running.
SQL_ERROR	An SQL execution error has occurred.
SYSTEM_ERROR	A system error has occurred.
SYSTEM_LOCKED	The system is currently locked by another user.
SYSTEM_NAME_ALREADY_EXISTS	The L-Platform name already exists.
VALIDATION_ERROR	A request parameter verification error has occurred.
VLAN_SET_ERROR	An error preparing for a console connection has occurred.
WARNING	A resource ID has not been allocated.

Part 4   Troubleshooting

Chapter 8 Troubleshooting Flow

With this product, collecting data for investigation is recommended in order to find the causes of problems. Collecting data for investigation of a problem immediately after it has occurred allows problems to be investigated and their causes found.

Take the following steps after a problem has occurred:

1. If a problem is thought to have occurred, start by collecting data for investigation.

2. Perform the actions and checking for each phenomenon that occurs.

3. If the problem has been resolved, continue operation with no change.

   Keep the data that was collected in step 1 so that it can be used when the next problem occurs.

4. If the problem was unable to be resolved, send the data that was collected in step 1 to Fujitsu technical support and request an investigation.

8.1 Collecting Investigation Data

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

The procedure to execute a command (ctmg_collectinfo or rcxadm agtctl snap) to collect investigation data and the procedure to collect investigation data for the VM management product are described below.

For information about ctmg_collectinfo command, refer to "5.7 ctmg_collectinfo (Collection of Investigation Data)".
For information about rcxadm agtctl snap command, refer to "rcxadm agtctl" in "Command Reference VE".

Collection procedure

Collect data on the server with the following procedure.

1. Log in the server as a user with administrative privileges of the OS.

   Administrative privileges are required to collect investigation data.

2. Execute "ctmg_collectinfo" command or "rcxadm agtctl snap -full" command.

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

   - For the management server

     [Windows]

     > ">"<Installed folder>\RCXCTMG\bin\ctmg_collectinfo" dir <RETURN>

     [Linux]

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

   - For the managed server

     [Windows/Hyper-V]

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

     > >"<Installed folder>\RCXCTMGA\bin\pmdiag <RETURN> (Note 1)

     [Linux]

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

     > # /opt/FJSVssqc/bin/pmdiag <RETURN> (Note 2)

     [VMware]

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

> **Note**
> ⋯⋯
>
> For VMware ESXi, because the agent of this product cannot be installed, you cannot execute investigation data collection commands.
>
> Note 1: When the dialog window is displayed, specify a folder to save data, then click ▶. After the message "Processing Completed Successfully ..." is displayed, collect following files in the folder.
>
> ・PMDiag?.cab
>
> "?": denotes the index number of each of created files. No number is placed if only one file is created.
>
> Note 2: Execution results will be stored in /tmp. Collect following files.
>
> ・pmdiag_*.tar.gz
>
> ・pmdiag_*.log
>
> "*": denotes <host name>_<timestamp>. Timestamp format may differ according to system environment.
> ⋯⋯

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

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

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

   a. Start VMware vSphere(TM) Client, and then connect to VMware vCenter Server as a user with system administrative privileges.

   b. From the menu, select [Administration]-[Export System Logs].

   c. Specify VMware vCenter Server as the object to export.

   d. Specify the location to store and click <OK> button.

   Send the collected investigation data to Fujitsu technical support.

For information about investigation data, refer to "Troubleshooting" in "Operation Guide VE".

When a problem not described in this chapter has occurred, refer to "Troubleshooting" in "Operation Guide VE".

Chapter 9 Troubleshooting in Relation to Operations

9.1 VSYS10098 Error when Using Template Builder Window or Template Builder Command

Error message

At Template Builder window operation:

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

At Template Builder command operation:

```
TPLCnnnnn:<Message>(VSYS10098) (*1)
```

*1: nnnnn is the message number. Refer to "Messages Starting with TPLC" in the " Messages CE" for details.

Target version and level

- Windows version: V3.0

- Linux version: V3.0

9.1.1 Action 1

Checkpoint

Have the following messages been output in the trace log of the L-Platform Management function (vsys_trace_log)?

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

📗 Example

```
[2011-02-24 11:00:31,265] ERROR VSYS10098 SQL error.[Connection refused. Check that the hostname
 and port are correct and that the postmaster is accepting TCP/IP connections.]
[2011-02-24 11:00:31,265] WARN VSYS00000 Failed to connect to the database. Retrying...
...
(VSYS10098 and VSYS00000 are repeatedly output alternately)
...
[2011-02-24 11:02:55,171] ERROR VSYS10098 SQL error.[Connection refused. Check that the hostname
 and port are correct and that the postmaster is accepting TCP/IP connections.]
[2011-02-24 11:02:55,171] ERROR VSYS00001 Failed retry. The database may not be ready.
[2011-02-24 11:02:55,171] ERROR VSYS00003 VSYS API Startup is terminated.
```

Cause

The database is not started.
A WorkUnit (RCXCT_VSYS) of the L-Platform Management function API was probably started while the database was stopped.

Action

Start the database according to the action in "VSYS00001" in the "Message CE"

9.1.2 Action 2

Checkpoint

Have the following messages been output in the trace log of the L-Platform Management function (vsys_trace_log)?

```
1) VSYS10098 has been output, and
2) "Connection refused. Check that the hostname and port are correct and that the postmaster
 is accepting TCP/IP connections." has been output as a detailed error message of 1), and
3) After 1), a Java exception display (stack trace) has been output.
```

Example

```
[2011-02-24 13:16:28,531] ERROR VSYS10098 SQL error.[Connection refused. Check that the hostname
 and port are correct and that the postmaster is accepting TCP/IP connections.]
org.postgresql.util.PSQLException: Connection refused. Check that the hostname and
 port are correct and that the postmaster is accepting TCP/IP connections.
 at org.postgresql.core.v3.ConnectionFactoryImpl.openConnectionImpl(ConnectionFactoryImpl.java:123)
...
(Java stack trace is output.)
...
```

Cause

The database is not started.
In the state where a WorkUnit is started, probably only the database has been stopped.

Action

Start the database according to the action in "VSYS00001" in the "Message CE".

9.2 is20147 Error when Starting or Stopping a WorkUnit (Linux)

Error message

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

Target version and level

- Linux version: V3.0

9.2.1 Action

Cause

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

Action

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

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

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

9.3 VSYS10096 error when using L-Platform Management after Disaster Recovery

Error message

```
VSYS10096 Status[404] returned from CBRM is illegal.[code:67154][message:obj:not found]
```

Target version and level

- Windows version: V3.0

- Linux version: V3.0

9.3.1 Action

Checkpoint

Has this error occurred in the environment recovered by Disaster Recovery?
Have the following messages been output in the trace log of the L-Platform Management function (vsys_trace_log)?

```
1) VSYS10096 has been output, and
2) The error code of the Resource Management function is 67154. (*1)
```

*1: Refer to "Messages VE" for details of the error 67154.

Cause

If there is a process that is during the deployment or reconfiguration of an L-Platform when various information is exported by Disaster Recovery, the exported information of the L-Platform has a state under processing.
When such information has been imported, the configuration information of an L-Platform that has no resource might be recovered.
When operating the L-Platform, server or disk that has no resource but management information of it, VSYS10096 error occurs.

Action

Return the L-Platform that contains server or disk that has no resource and deploy a new instance again.
If the same error has occured in returning the L-Platform, delete the L-Platform by cfmg_deletesysdata command.
Refer to "5.4 cfmg_deletesysdata (Unnecessary Data Deletion)" for details of cfmg_deletesysdata command.

Chapter 10 Troubleshooting in Relation to Deployment

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

Target version and level

- Windows version: V3.0

- Linux version: V3.0

10.1.1 Action

Checkpoint

Has a scenario occurred in which deployment was successful, but connection cannot be performed using the IP address of the L-Server (Windows) displayed on the L-Platform Management window? Also, virtualization software such as VMware has a function that allows connection to an L-Server using a console instead of an IP address. Use this function to login to Windows. At this point in time, does either of the following scenarios occur?

- Password resetting is requested, and

  Login is impossible because password resetting fails.

- Password resetting is requested, and

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

Cause

These scenarios occur when image creation is implemented repeatedly after a Windows L-Server is deployed.
This product uses Sysprep for Windows images. The number of times it can be used is limited, so image creation cannot be implemented repeatedly.

Action

Reinstall Windows to perform image re-creation.

10.2 When Power to L-Server Being Deployed is Switched Off, VSYS30004 Error is Output to Event Log in L-Platform Management Window

Error message

```
VSYS30004:Failed to stop server. [System ID:div02-S8A0WEKWN][Server Name:MW96 Web server Linux]
[Detail:ROR(69122)]
```

Target version and level

- Windows version: V3.0

- Linux version: V3.0

10.2.1 Action

Checkpoint

In addition to the scenario, is a 69122 error output to the resource management events?

Example

```
Error 2010-12-28 11:13:26 S8A0WEKWN 69122 FJSVrcx:ERROR:69122:timeout occurred while executing power
control modules
Error 2010-12-28 11:13:26 div02-S8A0WEKWN-S-0001 61143 FJSVrcx:ERROR:61143:stop server:failed
```

Cause

When resource management takes longer than 5 minutes to shut down the operating system (OFF), a timeout error occurs.

Action

If the scenario occurs frequently, make the timeout longer for resource management. Refer to " Troubleshooting " in the "Reference Guide (Resource Management) CE" for details.

Appendix A Registered Software IDs

Following the software information come with this product.

Please use as needed.

location

Location listed below.

[Windows]

```
<Installation directory for this product>\RCXCFMG\templates\softwares\
```

[Linux]

```
/opt/FJSVcfmg/templates/softwares/
```

Registered Software IDs

Registered Software IDs of this product listed below.

Registered Software IDs	Software Name	Version
SW00000001	Windows Server 2008 Standard (32bit)	6.0
SW00000002	Windows Server 2008 Standard (64bit)	6.0
SW00000003	Windows Server 2008 Enterprise (32bit)	6.0
SW00000004	Windows Server 2008 Enterprise (64bit)	6.0
SW00000005	Windows Server 2008 R2 Foundation	6.1
SW00000006	Windows Server 2008 R2 Standard	6.1
SW00000007	Windows Server 2008 R2 Enterprise	6.1
SW00000008	Windows Server 2008 R2 Datacenter	6.1
SW00000009	Red Hat Enterprise Linux 5 (for x86)	5
SW00000010	Red Hat Enterprise Linux 5 (for Intel64)	5
SW00000011	Red Hat Enterprise Linux 6 (for x86)	6
SW00000012	Red Hat Enterprise Linux 6 (for Intel64)	6
SW00000013	SUSE Linux Enterprise Server 11 (x86)	11
SW00000014	SUSE Linux Enterprise Server 11 (AMD64)	11
SW00000015	SUSE Linux Enterprise Server 11 (Intel64)	11

The following OS, ID not registered. It offers format for registration. Please use <license> tag to fill the Windows OS Product Key, software information to register.

Software Name	Version	Software information file Name
Windows Server 2003 R2, Standard	5.2	WS2003R2_SE.xml
Windows Server 2003 R2, Enterprise	5.2	WS2003R2_EE.xml
Windows Server 2003 R2, Standard x64 Edition	5.2	WS2003R2_SE_x64.xml
Windows Server 2003 R2, Enterprise x64 Edition	5.2	WS2003R2_EE_x64.xml