ServerView Resource Orchestrator Cloud Edition V3.1.0

Reference Guide (API)

Windows/Linux
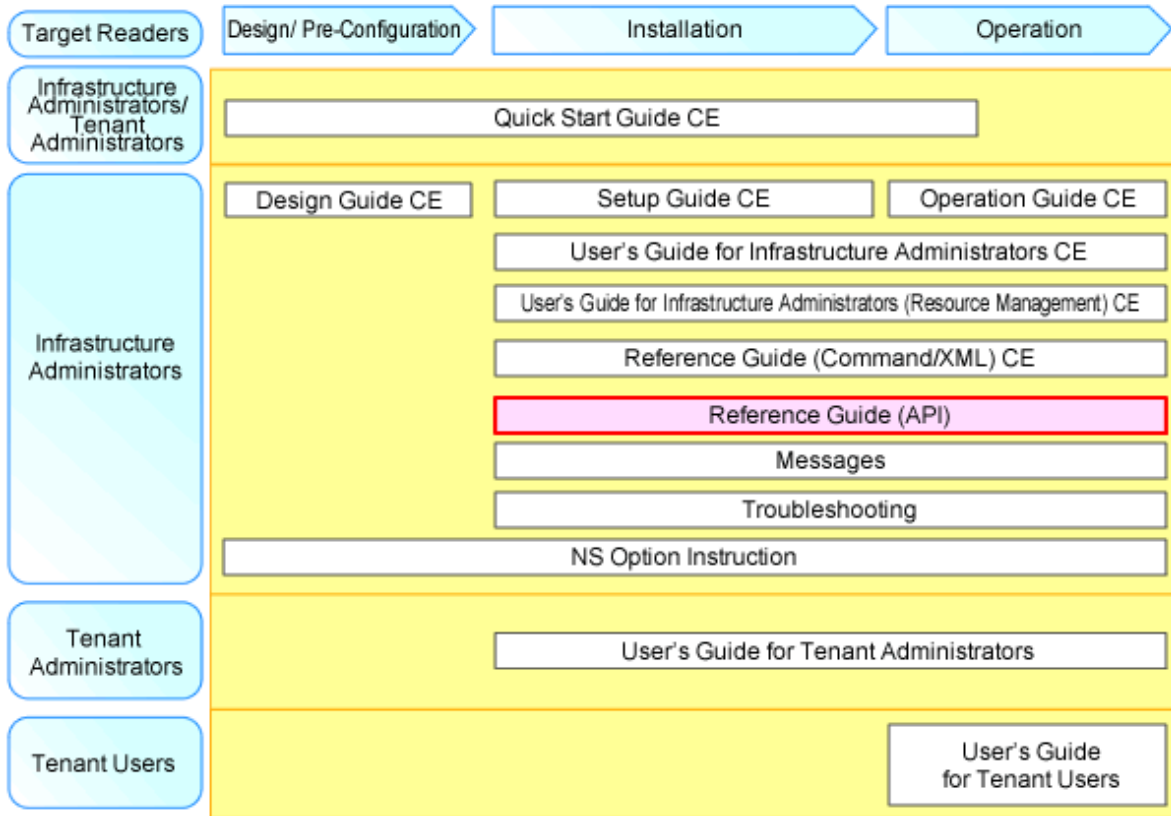
Preface

Resource Orchestrator Documentation Road Map

The documentation road map for Resource Orchestrator is as shown below.

Resource Orchestrator Documentation Road Map

> ## P Point
> ....
>
> Refer to the user role manuals displayed in the table below for roles that are not in the diagram.
>
> | Roles that are not in the diagram | Roles that are in the diagram |
> | --- | --- |
> | Infrastructure operator

Infrastructure monitor | Infrastructure administrator |
> | Tenant operator

Tenant monitor | Tenant administrator |
> | (Dual-Role) Administrator

(Dual-Role) Operator

(Dual-Role) Monitor | Infrastructure administrator and Tenant administrator |
>
> ....

For information about the documents for Resource Orchestrator, please refer to "Chapter 1 Documentation Road Map" in the "Design Guide CE".

Purpose

This manual explains the API available in ServerView Resource Orchestrator (hereinafter Resource Orchestrator).

Target Readers

This manual is intended for users wishing to know about the API provided by Resource Orchestrator.

Organization

This manual is composed as follows:

Explains an overview of the APIs available in Resource Orchestrator.

Explains L-Platform APIs.

Explains accounting APIs

Explains List of Response Status Error Codes of L-Platform APIs.

Explains List of Response Status Error Codes of accounting APIs.

Explains the terms used in this manual. Please refer to it when necessary.

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 Manager]	Sections related to Windows manager
[Linux Manager]	Sections related to Linux manager
[Windows]	Sections related to Windows (When not using Hyper-V)
[Linux]	Sections related to Linux
[Solaris]	Sections related to Solaris or Solaris Containers
[VMware]	Sections related to VMware
[Hyper-V]	Sections related to Hyper-V
[Xen]	Sections related to RHEL5-Xen
[KVM]	Sections related to RHEL-KVM
[Solaris Containers]	Sections related to Solaris containers
[Oracle VM]	Sections related to Oracle VM
[Physical Servers]	Sections related to physical servers
[VM host]	Sections related to Windows Server 2008 with VMware or Hyper-V enabled

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

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

- Window names, dialog names, menu names, and tab names are shown enclosed by brackets ([ ]).

- Button names are shown enclosed by angle brackets (< >) or square brackets ([ ]).

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

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

- Variables are indicated using italic text and underscores.

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

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

- The URLs in this manual were correct when the manual was written.

Menus in the ROR console

Operations on the ROR console can be performed using either the menu bar or pop-up menus.
By convention, procedures described in this manual only refer to pop-up menus.

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 2008	Microsoft(R) Windows Server(R) 2008 Standard Microsoft(R) Windows Server(R) 2008 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Datacenter
Windows 2008 x86 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x86) Microsoft(R) Windows Server(R) 2008 Enterprise (x86)
Windows 2008 x64 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x64) Microsoft(R) Windows Server(R) 2008 Enterprise (x64)
Windows Server 2003	Microsoft(R) Windows Server(R) 2003 R2, Standard Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition
Windows 2003 x64 Edition	Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition
Windows 7	Windows(R) 7 Professional Windows(R) 7 Ultimate

Abbreviation	Products
Windows Vista	Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate
Windows XP	Microsoft(R) Windows(R) XP Professional operating system
Linux	Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.1 (for x86) Red Hat(R) Enterprise Linux(R) 5.1 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.2 (for x86) Red Hat(R) Enterprise Linux(R) 5.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.3 (for x86) Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T
Red Hat Enterprise Linux	Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.1 (for x86) Red Hat(R) Enterprise Linux(R) 5.1 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.2 (for x86) Red Hat(R) Enterprise Linux(R) 5.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.3 (for x86) Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
Red Hat Enterprise Linux 5	Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.1 (for x86) Red Hat(R) Enterprise Linux(R) 5.1 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.2 (for x86) Red Hat(R) Enterprise Linux(R) 5.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.3 (for x86) Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64)

Abbreviation	Products
	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 Enterprise Linux 6	Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
RHEL5-Xen	Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Linux Virtual Machine Function
RHEL-KVM	Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Virtual Machine Function
DOS	Microsoft(R) MS-DOS(R) operating system, DR DOS(R)
SUSE Linux Enterprise Server	SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T
Oracle VM	Oracle VM Server for x86
ESC	ETERNUS SF Storage Cruiser
GLS	PRIMECLUSTER GLS
Navisphere	EMC Navisphere Manager
Solutions Enabler	EMC Solutions Enabler
MSFC	Microsoft Failover Cluster
SCVMM	System Center Virtual Machine Manager 2008 R2 System Center 2012 Virtual Machine Manager
VMware	VMware vSphere(R) 4 VMware vSphere(R) 4.1 VMware vSphere(R) 5
VMware ESX	VMware(R) ESX(R)
VMware ESX 4	VMware(R) ESX(R) 4
VMware ESXi	VMware(R) ESXi(TM)
VMware ESXi 5.0	VMware(R) ESXi(TM) 5.0
VMware Tools	VMware(R) Tools
VMware vSphere 4.0	VMware vSphere(R) 4.0
VMware vSphere 4.1	VMware vSphere(R) 4.1
VMware vSphere 5	VMware vSphere(R) 5
VMware vSphere Client	VMware vSphere(R) Client
VMware vCenter Server	VMware(R) vCenter(TM) Server
VMware vClient	VMware(R) vClient(TM)
VMware FT	VMware(R) Fault Tolerance
VMware DRS	VMware(R) Distributed Resource Scheduler
VMware DPM	VMware(R) Distributed Power Management
VMware vDS	VMware(R) vNetwork Distributed Switch
VMware Storage VMotion	VMware(R) Storage VMotion
VIOM	ServerView Virtual-IO Manager

Abbreviation	Products
ServerView Agent	ServerView SNMP Agents for MS Windows (32bit-64bit) ServerView Agents Linux ServerView Agents VMware for VMware ESX Server
RCVE	ServerView Resource Coordinator VE
ROR	ServerView Resource Orchestrator
ROR VE	ServerView Resource Orchestrator Virtual Edition
ROR CE	ServerView Resource Orchestrator Cloud Edition
Resource Coordinator	Systemwalker Resource Coordinator Systemwalker Resource Coordinator Virtual server Edition

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Contents

Chapter 1 Outline

This chapter describes L-Platform APIs and accounting APIs.

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.

The accounting API is offered so that users may develop their own applications for the calculation of charges.

1.2 Output Logs

Refer to "16.4.1 Investigation Logs on Admin Servers" in the "Operation Guide CE" for information on log output.

1.3 Configuration File

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

The configuration file is installed at the following location:

API

[Windows Manager]

```
Installation_folder\ROR\RCXCFMG\config\api_config.xml
```

[Linux Manager]

```
/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 Manager]

```
Installation_folder\ROR\RCXCFMG\config\command_config.xml
```

[Linux Manager]

```
/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.
l_platform-api-uri	The path where the L-Platform API is running.

1.4 Authentication

L-Platform API and accounting API authentication is performed using basic authentication. When an L-Platform API and accounting 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.

1.5 API Format

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

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

1.6 HTTP Requests for APIs

This section explains the configuration of the HTTP requests for APIs.

1.6.1 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 Manager]

```
Installation_folder\ROR\RCXCFMG\bin(Stores batch commands and shell scripts)
\config(Stores setup files for commands)
```

[Linux Manager]

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

1.6.2 HTTP Requests for Accounting APIs

URL

The URL format is shown below.

```
https://<Server where the accounting APIs are running>:<Port number>/accounting/endpoint
```

The accounting APIs all use GET or POST 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 accounting APIs are running>:<Port number of accounting APIs is running>
/accounting/endpoint?Action=GetResourceUsage&startDate=2012-01-01&endDate=2012-01-01
```

With the POST method, a body can be set in the request for execution.

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 accounting API authentication. (Users registered on the LDAP directory)

1.7 Configuration of APIs

1.7.1 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 an L-Platform.

Category	L-Platform API name	Functional overview
	ListLPlatform	Gets a list of L-Platform.
	MoveLPlatform	Changes the organization that owns an L-Platform.
	DestroyLPlatform	Returns an L-Platform.
	GetLPlatformStatus	Gets the status of an L-Platform.
	GetLPlatformConfiguration	Gets configuration information for an L-Platform.
	GetLPLatformAttributes	Gets the attributes of an L-Platform.
	ListNetworkInfo	Gets network information for an 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 an L-Platform.
	DestroyLServer	Deletes servers.
	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.

Category	L-Platform API name	Functional overview
	ListDisk	Gets a list of existing disks.
	AttachDisk	Attaches an extended disk.
	DetachDisk	Detaches an extended disk.

1.7.2 Configuration of Accounting APIs

The accounting APIs include the following APIs:

Category	L-Platform API name	Functional overview
Resource Usage	GetResourceUsage	Get resource usage.
Usage Point	GetUsagePoint	Get usage point.
	RegisterUsagePoint	Register usage point.
Daily Usage Charge	GetDailyCharge	Get daily usage charges.
	RegisterDailyCharge	Register daily usage charges.
Monthly Usage Charge	GetMonthlyCharge	Get monthly usage charges.
	RegisterMonthlyCharge	Register monthly usage charges.
Tenant Information	GetTenants	Get a list of tenant information.

1.8 Explanatory Format for APIs

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

1.8.1 Explanatory Format for L-Platform APIs

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.

1.8.2 Explanatory Format for Accounting APIs

Request parameters

This section explains each accounting 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.

Request body

This section explains accounting API request bodys.

<Elements>

This section explains each element in table format.

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

Response

This section explains accounting 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 request body and sample response

This section presents a sample accounting API request bodies and response. Responses are in XML format.

Note

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

Chapter 2 L-Platform API Reference

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

2.1 Operations on L-Platform Templates

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

2.1.1 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.
	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
<?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.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.

Element name	Item	Item description
	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.
	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>
```

2.1.2 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.
	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>
      <disks>
        <disk>
          <diskNo>[Disk serial number]</diskNo>
          <size>[Disk size]</size>
        </disk>
      </disks>
      <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
ListDiskImageRespo nse	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Element name	Item	Item description
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
	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.

Element name	Item	Item description
	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.
	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.

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).
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.
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).
disks	Description	Element holding the response information for the disk information.
	Type	None.
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).

Element name	Item	Item description
disk	Description	Set of disk information.
	Type	None.
	Number of occurrences	0 or more.
diskNo	Description	Disk serial number.
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
size	Description	Disk size[GB]
	Type	ASCII string.
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).

Sample response

```xml
<?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>
      <disks>
        <disk>
          <diskNo>1</diskNo>
          <size>20.0</size>
        </disk>
      </disks>
      <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>
```

2.1.3 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>
        <aliveMonitoring>[Heartbeat]</aliveMonitoring>
        <repurpose>[Server automatically released when power is off]</repurpose>
      </serverPolicy>
      <type>[Server type]</type>
      <vmType>[VM type]</vmType>
    </servertype>
  </servertypes>
</ListServerTypeResponse>
```

<Elements>

Element name	Item	Item description
ListServerTypeRespons e	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.
	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.

Element name	Item	Item description
	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.
	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).

Element name	Item	Item description
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.
	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).
aliveMonitoring	Description	Heartbeat. One of the following values: true: valid. false: invalid.
	Type	ASCII string.
	Number of occurrences	As many as there are serverPolicy elements (0 or 1 element for each serverPolicy element).
repurpose	Description	Server automatically released when power is off. Select one of the following: true: Automatically release. false: Do not release.
	Type	ASCII 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.

Element name	Item	Item description
	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>
        <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>Fixed</positioning>
        <redundancy>None</redundancy>
        <aliveMonitoring>true</aliveMonitoring>
        <repurpose>false</repurpose>
      </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>
```

```xml
          </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>Fixed</positioning>
            <redundancy>None</redundancy>
            <aliveMonitoring>false</aliveMonitoring>
            <repurpose>true</repurpose>
          </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>Fixed</positioning>
            <redundancy>HA</redundancy>
            <aliveMonitoring>false</aliveMonitoring>
            <repurpose>false</repurpose>
          </serverPolicy>
          <type>server_type</type>
          <vmType>VMware</vmType>
      </servertype>
    </servertypes>
</ListServerTypeResponse>
```

2.1.4 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.
	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>
```

```xml
<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>
        <contained>[Flag that indicates if the data disk is included in the image]</contained>
        <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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.

Parameter name	Item	Item description
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).
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.

Parameter name	Item	Item description
	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
	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).

Parameter name	Item	Item description
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.
	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.

Parameter name	Item	Item description
	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).
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).
contained	Description	Flag that indicates if the data disk is included in the image. Specify "true" if the data disk is included in the image. Specify "false" if otherwise.
	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

Parameter name	Item	Item description
	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
	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.

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

Sample response

```
<?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>lot2#FWS#</networkId>
          </interface>
          <interface>
            <name>network-param-0002</name>
            <networkId>lot4#FWS#</networkId>
          </interface>
        </interfaces>
```

```xml
          <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>
      </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>
        <disks>
          <disk>
            <diskNo>1</diskNo>
            <size>30.0</size>
            <storagePool>/StoragePool</storagePool>
            <contained>false</contained>
          </disk>
        </disks>
        <priority>10</priority>
        <nics>
          <nic>
```

```
          <management>1</management>
          <networkId>lot2#FWS#</networkId>
          <nicNo>1</nicNo>
        </nic>
        <nic>
          <management>0</management>
          <networkId>lot2#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>lot4#FWS#</networkId>
          <nicNo>1</nicNo>
        </nic>
        <nic>
          <management>0</management>
          <networkId>lot4#FWS#</networkId>
          <nicNo>2</nicNo>
        </nic>
        <nic>
          <management>0</management>
          <networkId>lot4#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>
```

2.1.5 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".

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	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.

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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.
	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>
```

2.1.6 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.
	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
<?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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.
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.

Element name	Item	Item description
	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.
	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).

Element name	Item	Item description
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.
	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.

Element name	Item	Item description
	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).
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.

Element name	Item	Item description
	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>
```

2.2 Operations on L-Platform Systems

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

2.2.1 CreateLPlatform (Creates an 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.
	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.2.2 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.
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>
<resource>
  <name>[L-Server name]</name>
</resource>
<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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.
	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.

Element name	Item	Item description
	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).
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).

Element name	Item	Item description
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. 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).

Element name	Item	Item description
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
	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.

Element name	Item	Item 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).
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.
	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

Element name	Item	Item description
	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
	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

Element name	Item	Item description
	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).
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

Element name	Item	Item description
	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).
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

Element name	Item	Item description
	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
	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".

Element name	Item	Item description
	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
	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

Element name	Item	Item description
	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.
	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

Element name	Item	Item description
	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: "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).

Element name	Item	Item description
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.
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.

Element name	Item	Item description
	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).
resource	Description	Set of information displayed in the resource tab.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
name	Description	L-Server name.
	Type	ASCII string.
	Number of occurrences	As many as there are resource elements (0 or 1 element for each resource 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>
                <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>
```

```xml
          </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-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>
```

```xml
        <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>
      <resource>
        <name>tenantA-8O0NW7TZV-S-0002</name>
      </resource>
  </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>
    <lserverName>lserver-1</lserverName>
    <lserverStatus>RUNNING</lserverStatus>
    <serverType>over_commit</serverType>
    <resource>
      <name>tenantA-8O0NW7TZV-S-0002</name>
    </resource>
  </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>
          <resource>
            <name>tenantA-6MYJCS7MR-S-0001</name>
          </resource>
        </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>
          <resource>
            <name>tenantA-6MYJCS7MR-S-0002</name>
          </resource>
        </lserver>
      </lservers>
      <lplatformId>tenantA-6MYJCS7MR</lplatformId>
      <lplatformName>test-mix</lplatformName>
      <lplatformStatus>NORMAL</lplatformStatus>
    </lplatform>
  </lplatforms>
</ListLPlatformResponse>
```

2.2.3 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.
	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 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.

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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.2.4 DestroyLPlatform (Returns an L-Platform)

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

Note

This API cannot be executed if there is a Solaris Container server in the 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.

Parameter name	Item	Item description
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "DestroyLPlatform".
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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	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>
```

2.2.5 GetLPlatformStatus (Gets the Status of an L-Platform)

This API gets status information for 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	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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
<?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>
```

2.2.6 GetLPlatformConfiguration (Gets Configuration Information for an L-Platform)

This API gets configuration information for 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	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 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>
              <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>
        <resource>
          <name>[L-Server name]</name>
        </resource>
        <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.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.

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).
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.

Element name	Item	Item description
	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 (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).

Element name	Item	Item description
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 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.

Element name	Item	Item description
	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	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.

Element name	Item	Item description
	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
	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.

Element name	Item	Item description
	Type	UTF-8 string.
	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.

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
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).
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).
resource	Description	Set of information displayed in the resource tab.
	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
name	Description	L-Server name.
	Type	ASCII string.
	Number of occurrences	As many as there are resource elements (0 or 1 element for each resource 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.

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>
      <resource>
        <name>tenantA-8O0NW7TZV-S-0001</name>
      </resource>
    </lserver>
    <lserver>
      <cpuPerf>1.2</cpuPerf>
```

```xml
          <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>
          <resource>
            <name>tenantA-8O0NW7TZV-S-0002</name>
          </resource>
        </lserver>
    </lservers>
    <lplatformId>tenantA-8O0NW7TZV</lplatformId>
    <lplatformName>firewall-test</lplatformName>
  </lplatform>
</GetLPlatformConfigurationResponse>
```

2.2.7 GetLPlatformAttributes (Gets the Attributes of an L-Platform)

This API gets attribute information for 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.

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 "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.
	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.

Element name	Item	Item description
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.
lplatformId	Description	L-Platform ID.
	Type	ASCII string.
	Number of occurrences	0 or 1.
lplatformName	Description	L-Platform name.
	Type	UTF-8 string.

Element name	Item	Item description
	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>
```

2.2.8 ListNetworkInfo (Gets Network Information for an 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 "Chaper 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.
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.

Element name	Item	Item description
	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.
	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.

Element name	Item	Item description
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 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>
```

2.2.9 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".
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 "Chaper 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?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>
```

2.2.10 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".

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 "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.
	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 "Chaper 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.2.11 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 "Chaper 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.2.12 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".
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.

Element name	Item	Item description
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chaper 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3 Operations on Server

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

2.3.1 CreateLServer (Creates a New Server)

This API creates a server within an 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.

🖝 Note

This API cannot be executed if there is a Solaris Container server in the 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.

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 "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.
	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:

Parameter name	Item	Item description
		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
[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).

Parameter name	Item	Item description
	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.
	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
<?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.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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 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>
```

2.3.2 ListLServer (Gets a List of Servers in an L-Platform)

This API gets a list of server IDs within 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	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".
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>
      <resource>
        <name>[L-Server name]</name>
      </resource>
    </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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.

Element name	Item	Item description
	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).
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.

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.
	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.
	Type	string ASCII
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
resource	Description	Set of information displayed in the resource tab.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
name	Description	L-Server name.
	Type	ASCII string.
	Number of occurrences	As many as there are resource elements (0 or 1 element for each resource 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>
      <resource>
        <name>tenantA-8O0NW7TZV-S-0001</name>
      </resource>
    </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>
      <resource>
        <name>tenantA-8O0NW7TZV-S-0002</name>
      </resource>
    </lserver>
  </lservers>
</ListLServerResponse>
```

2.3.3 DestroyLServer (Deletes Server)

This API removes a server.

🔰 **Note**

. . . .

This API cannot be executed if there is a Solaris Container server in the 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	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.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.4 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".

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.
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.

Element name	Item	Item description
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.5 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.

Parameter name	Item	Item description
lplatformId	Value	No more than 32 characters.
	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

```
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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.

Element name	Item	Item description
	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>
```

2.3.6 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.

Parameter name	Item	Item description
	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.7 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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.

Element name	Item	Item description
	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>
```

2.3.8 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 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>
      <resource>
        <name>[L-Server name]</name>
      </resource>
      <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>
</GetLServerConfigurationResponse>
```

<Elements>

Element name	Item	Item description
GetLServerConfigurationResponse	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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	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.

Element name	Item	Item description
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.
	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).

Element name	Item	Item description
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.
	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.

Element name	Item	Item description
	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.
	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.

Element name	Item	Item description
	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.
	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.

Element name	Item	Item description
	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	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.

Element name	Item	Item description
	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.
	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).

Element name	Item	Item description
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.
	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).
resource	Description	Set of information displayed in the resource tab.

Element name	Item	Item description
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
name	Description	L-Server name.
	Type	ASCII string.
	Number of occurrences	As many as there are resource elements (0 or 1 element for each resource 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>1.4</cpuPerf>
    <creator>tenantA</creator>
    <diskimageId>image-132480039e8</diskimageId>
    <diskimageName>g-vm-0001</diskimageName>
    <hostName>test-vm11</hostName>
    <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>
    <memorySize>2.0</memorySize>
    <numOfCpu>1</numOfCpu>
    <storagePool>/StoragePool</storagePool>
    <type>Virtual</type>
    <disks/>
    <vmType>Vmware</vmType>
    <nics>
      <nic>
        <management>1</management>
        <networkId>N3FY52Z4F-N-3sep#FWS#</networkId>
        <nicNo>1</nicNo>
        <privateIp>192.xxx.xxx.xxx</privateIp>
      </nic>
      <nic>
        <management>0</management>
        <networkId>N3FY52Z4F-N-3sep#FWS#</networkId>
```

```
            <nicNo>2</nicNo>
            <privateIp>192.xxx.xxx.xxx</privateIp>
         </nic>
         <nic>
            <management>0</management>
            <networkId>N3FY52Z4F-N-3seq#FWS#</networkId>
            <nicNo>3</nicNo>
            <privateIp>192.xxx.xxx.xxx</privateIp>
         </nic>
      </nics>
      <lserverId>tenantA-N3FY52Z4F-S-0001</lserverId>
      <lserverName>test-vm11</lserverName>
      <serverType>over_commit</serverType>
      <resource>
         <name>tenantA-N3FY52Z4F-S-0001</name>
      </resource>
   </lserver>
</GetLServerConfigurationResponse>
```

2.3.9 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.
	Type	ASCII string.

Parameter name	Item	Item description
	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>
    <resource>
      <name>[L-Server name]</name>
    </resource>
  </lserver>
</GetLServerAttributesResponse>
```

<Elements>

Element name	Item	Item description
GetLServerAttributesResponse	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.

Element name	Item	Item description
	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).
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).
resource	Description	Set of information displayed in the resource tab.
	Type	None.
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
name	Description	L-Server name.
	Type	ASCII string.

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

Sample response

```xml
<?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>
    <resource>
      <name>tenantA-8O0NW7TZV-S-0002</name>
    </resource>
  </lserver>
</GetLServerAttributesResponse>
```

2.3.10 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".

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.
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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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
<?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>
```

2.3.11 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

📙 Note

....
This API cannot be executed if there is a Solaris Container server in the 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 "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.
	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.

Parameter name	Item	Item description
	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.
	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.12 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.
	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.
[allDisk]	Description	Specify whether to collect the cloning master together with the expanded disk.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	One of the following values: true: Collect the cloning master together with the expanded disk false: Do not collect the cloning master together with the expanded disk If this parameter is omitted, the default value is the "false". This can be specified with VMware or Hyper-V servers. With VMware servers, if images are collected with "false" specified, the actual collected image will be an image including expanded disks. However, the image information registered after image collection will be image information that does not include expanded disks, so if this image information is used to deploy a server, it is deployed to a system disk.

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> [-allDisk <Specify whether to collect the cloning master together with the expanded
disk>]
```

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.
	Type	None.
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```
<?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>
```

2.3.13 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.
	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.

Parameter name	Item	Item description
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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.14 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.
	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.

Element name	Item	Item description
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
<?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>
```

2.3.15 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.

Parameter name	Item	Item description
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.

Element name	Item	Item description
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.16 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.
	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.

Parameter name	Item	Item description
	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

Element name	Item	Item description
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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. "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.

Element name	Item	Item description
	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>
```

2.3.17 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.
	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 "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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.18 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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.3.19 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".

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	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.

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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.4 Operations on Additional Disks

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

2.4.1 CreateDisk (Adds Additional Disks)

This API attaches a new extension disk to a server.

📌 **Note**

. . . .

This API cannot be executed if there is a Solaris Container server in the 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.

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 "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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.4.2 DestroyDisk (Deletes Additional Disks)

This API removes an extension disk from a server.

> **Note**
>
> ....
>
> This API cannot be executed if there is a Solaris Container server in the 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 "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
<?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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1.

Sample response

```xml
<?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>
```

2.4.3 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".

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 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.
	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.

Element name	Item	Item description
	Number of occurrences	1.
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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.

Element name	Item	Item description
	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.
	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>
```

2.4.4 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.

🗒 Note

This API cannot be executed if there is a Solaris Container server in the 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 "AttachDisk".
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	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

2.4.5 DetachDisk (Detaches an Existing Disk)

This API detaches an extension disk that has been attached to a server.

Note

This API cannot be executed if there is a Solaris Container server in the 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 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.
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-PlatformId.
	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 "Chapter 16 Messages Starting with PAPI" in the "Messages" 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 "Appendix A List of Response Status Error Codes(L-Platform APIs)" 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>
```

Chapter 3 Reference for the Accounting API

This chapter explains references relating to the accounting API.

3.1 Resource Usage Operations

This section explains the accounting API as it relates to resource usage operations.

3.1.1 GetResourceUsage (Get Resource Usage)

Get the resource usage.

Request parameters

Parameter name	Item	Item description
[version]	Description	Version ID of the accounting API
	Type	ASCII string.
	Value	Fixed. Specify "1.0". The latest version is used if this is omitted.
action	Description	The name of the accounting API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetResourceUsage".
[startDate]	Description	Start date for information to be retrieved
	Type	ASCII string.
	Value	Specify using the format "yyyy-MM-dd". The start date cannot be any day after the endDate, the day the API is executed, or any date after this. If this is omitted, the day previous to when the API is executed will be used.
[endDate]	Description	End date for information to be retrieved
	Type	ASCII string.
	Value	Specify using the format "yyyy-MM-dd". The end date cannot be any day before the startDate, the day the API is executed, or any date after this. If this is omitted, the day previous to when the API is executed will be used.
[lplatformId]	Description	Retrieve information for specified L-Platform
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple. For example, lplatformId=aaa&lplatformId=bbb&... If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.
[tenantName]	Description	Retrieve information for specified tenant
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple. For example, tenantName=aaa&tenantName=bbb&... If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.
[recordStatus]	Description	Status flag for the information about deployment and operation times to be retrieved
	Type	ASCII string.

Parameter name	Item	Item description
	Value	Specify one of the following: Multiple can be specified. 　NORMAL 　WARNING 　ERROR Only NORMAL and WARNING are retrieved if this is omitted.

Response

<Status code>

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

<XML>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetResourceUsageResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
 <systems date="[Date of the data to be retrieved]">
  <system id="[L-Platform ID]" name="[L-Platform name]" tenantName="[Tenant name of managed tenant]"
tenantDeleteDate="[Date when managed tenant was deleted]">
   <accountingItems>
    <accountingItem>
     <products>
      <product id="[Product ID]" category="[Category code]" resource="[Resource ID]"
usageUnit="[Accounting unit]" unitPrice="[Unit price]" unitNum="[Unit number]">
       <deploymentRecords>
        <record startTime="[Start time]" startEvent="[Start event]" endTime="[End time]"
endEvent="[End event]" recordStatus="[Status flag]"/>
       </deploymentRecords>
      </product>
     </products>
    </accountingItem>
   </accountingItems>
   <servers>
    <server id="[L-Server ID]" name="[L-Server name]">
     <disks>
     <disk id="[Disk ID]" name="[Disk name]">
     </disk>
    </disks>
   </server>
  </servers>
 </system>
 </systems>
</GetResourceUsageResponse>
```

<Elements>

Element name	Item	Item description
GetResourceUsageResponse	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.

Element name	Item	Item description
		Refer to "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.
	Number of occurrences	1
systems	Description	Element holding the response information for the list of L-Platform. date: Date of the data to be retrieved. Format is "yyyy-MM-dd". The return is empty if the tenant has not been deleted. This attribute will be omitted.
	Type	None.
	Number of occurrences	1 or more.
system	Description	Set of additional L-Platform template information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". The return is empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	None.
	Number of occurrences	0 or more.
servers	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
server	Description	Set of additional L-Server information. id : L-Server ID name: L-Server name
	Type	UTF-8 string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disks	Description	Element holding the response information for the list of disk.

Element name	Item	Item description
	Type	ASCII string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disk	Description	Set of additional disk information. id : disk ID name: disk name
	Type	ASCII string.
	Number of occurrences	As many as there are disks elements (more than 0 elements for each disks element).
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are system,server,or disk elements (more than 0 elements for each disks element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItems elements (more than 1 elements for each accountingItems element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).
product	Description	Set of product information id: Product ID (*1) category: Category code (*1) resource: Resource ID (*1) usageUnit: Accounting unit (*1) unitPrice: Unit price (*1) unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2) * 1: Values taken are based on the use of a product master. If products are not registered, the attributes are not omitted, but rather the return is empty. * 2: Performance values for each product are returned. - template: 1 (fixed) - vm: 1 (fixed) - pm: 1 (fixed) - cpu: Number of CPUs - cpu_clock: CPU frequency - memory: Memory size - disk: Disk size
	Type	ASCII string.
	Number of occurrences	As many as there are products elements (more than 0 elements for each products element).
deploymentRecords	Description	Set of deployed times.
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (0 or 1 element for each product element).

Element name	Item	Item description
operationRecords	Description	Set of operation times.
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (0 or 1 element for each product element).
record	Description	Information about deployment and operation times. · startTime: Start time. Format is "HH:mm:ss.SSSZ". · startEvent: Start event (*1) · endTime: End time. Format is "HH:mm:ss.SSSZ". · endEvent: End event (*1) · recordStatus: Status flag. This will be one of the following: - NORMAL - WARNING - ERROR *1: Refer to "3.1.1.1 List of Events" for details.
	Type	ASCII string.
	Number of occurrences	As many as there are deploymentRecords or operationRecords elements (more than 0 elements for each deploymentRecords or operationRecords element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<GetResourceUsageResponse>
 <responseMessage>AAPI00000 Process completed.</responseMessage>
 <responseStatus>SUCCESS</responseStatus>
 <version>1.0</version>
 <startDate>2012-04-26</startDate>
 <endDate>2012-04-26</endDate>
 <systems date="2012-04-26">
  <system id="Tenant-0-IYHPD30VJ" name="iwmt-lp03" tenantName="Tenant-001" tenantDeleteDate="">
   <accountingItems>
    <accountingItem>
     <products>
      <product id="PID-IP-0001-0001" category="template" resource="template-135562b98d2"
usageUnit="month" unitPrice="10.000000" unitNum="0">
       <deploymentRecords>
        <record startTime="13:39:42.000+0900" startEvent="ADD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
       </deploymentRecords>
      </product>
     </products>
    </accountingItem>
   </accountingItems>
   <servers>
    <server id="Tenant-0-IYHPD30VJ-S-0001" name="virtual_win2008">
     <accountingItems>
      <accountingItem>
       <products>
        <product id="PID-VM-0001-0001" category="vm" resource="win2008" usageUnit="hour"
unitPrice="31.000000" unitNum="0">
         <deploymentRecords>
          <record startTime="13:39:42.000+0900" startEvent="ADD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
         </deploymentRecords>
         <operationRecords>
```

```xml
        <record startTime="13:39:56.000+0900" startEvent="START" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
        </operationRecords>
       </product>
      </products>
     </accountingItem>
     <accountingItem>
      <products>
       <product id="PID-OS-0001-0001" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="5693.000000" unitNum="1">
        <deploymentRecords>
         <record startTime="13:39:42.000+0900" startEvent="ADD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
        </deploymentRecords>
        <operationRecords>
         <record startTime="13:39:56.000+0900" startEvent="START" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
        </operationRecords>
       </product>
       <product id="PID-NW-0001-0001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="39.000000" unitNum="20">
        <deploymentRecords>
         <record startTime="13:39:42.000+0900" startEvent="ADD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
        </deploymentRecords>
        <operationRecords>
         <record startTime="13:39:56.000+0900" startEvent="START" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
        </operationRecords>
       </product>
      </products>
     </accountingItem>
     <accountingItem>
      <products>
       <product id="PID-MM-0001-0001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="1.000000" unitNum="20">
        <deploymentRecords>
         <record startTime="13:39:42.000+0900" startEvent="ADD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
        </deploymentRecords>
        <operationRecords>
         <record startTime="13:39:56.000+0900" startEvent="START" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
        </operationRecords>
       </product>
      </products>
     </accountingItem>
    </accountingItems>
    <disks>
     <disk id="Tenant-0-IYHPD30VJ-D-0001" name="DISK0">
      <accountingItems>
       <accountingItem>
        <products>
         <product id="PID-DK-0001-0001" category="disk" resource="/VMStoragePool" usageUnit="hour"
unitPrice="0.080000" unitNum="200">
          <deploymentRecords>
           <record startTime="13:39:42.000+0900" startEvent="ADD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
          </deploymentRecords>
          <operationRecords>
           <record startTime="13:39:56.000+0900" startEvent="START" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
          </operationRecords>
```

```
        </product>
      </products>
     </accountingItem>
    </accountingItems>
   </disk>
  </disks>
 </server>
 </servers>
 </system>
 </systems>
</GetResourceUsageResponse>
```

3.1.1.1 List of Events

No.	Event name	Generated events				Event summary
		Deployed time		Operation time		
		Start	End	Start	End	
1	ADD	YES	-	-	-	Add
2	DELETE	-	YES	-	-	Delete
3	START	-	-	YES	-	Start
4	STOP	-	-	YES	YES	Stopped
5	CHANGE_PRICE	YES	YES	YES	YES	Unit price change in product master
6	CHANGE_NUM	YES	YES	YES	YES	Change in number of CPS, memory capacity, etc.
7	CHANGE_TENANT	YES	YES	-	-	L-Platform transfer
8	CHANGE_OWNER	YES	YES	YES	YES	Change in L-Platform owner
9	PERIOD	YES	-	YES	-	Periodic log
10	BEGIN	YES	-	YES	-	Start of day (Output at 0:00:00.000 if there is no PERIOD)
11	END	-	YES	-	YES	End of day (Output every day at 23:59:59.999)
12	UNKNOWN_ADD	-	YES	-	-	If ADD-ADD-DELETE, then this becomes ADD-UNKNOWN_ADD
13	UNKNOWN_DELETE	-	YES	-	-	If ADD-DELETE-DELETE, then this becomes UNKNOWN_DELETE-DELETE
14	UNKNOWN_START	-	-	-	YES	If START-START-STOP, then this becomes START-UNKNOWN_START
15	UNKNOWN_STOP	-	-	YES	-	If DELETE-STOP, then this becomes UNKNOWN_STOP-STOP
16	UNKNOWN_CHANGE	YES	-	-	-	If DELETE-CHANGE, then this becomes UNKNOWN_CHANGE-CHANGE
17	UNKNOWN_PERIOD	YES	-	YES	-	If STOP-PERIOD(RUNNNING), then this becomes UNKNOWN_PERIOD-PERIOD

3.2 Usage Point Operations

This section explains the accounting API as it relates to usage point operations.

3.2.1 GetUsagePoint (Get Usage Point)

Get the usage point.

Request parameters

Parameter name	Item	Item description
[version]	Description	Version ID of the accounting API
	Type	ASCII string.
	Value	Fixed. Specify "1.0". The latest version is used if this is omitted.
action	Description	The name of the accounting API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetUsagePoint".
[startDate]	Description	Start date for information to be retrieved
	Type	ASCII string.
	Value	Specify using the format "yyyy-MM-dd". The start date cannot be any day after the endDate, the day the API is executed, or any date after this. If this is omitted, the day previous to when the API is executed will be used.
[endDate]	Description	End date for information to be retrieved
	Type	ASCII string.
	Value	Specify using the format "yyyy-MM-dd". The end date cannot be any day before the startDate, the day the API is executed, or any date after this. If this is omitted, the day previous to when the API is executed will be used.
[sum]	Description	Option to determine whether to output the retrieved information for each day, or to sum.
	Type	ASCII string.
	Value	One of the following can be specified: true : Output summed value false: Output for each day If nothing was specified, the setting will be considered to be "false".
[lplatformId]	Description	Retrieve information for specified L-Platform
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple. For example, lplatformId=aaa&lplatformId=bbb&... If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.
[tenantName]	Description	Retrieve information for specified tenant.
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple. For example, tenantName=aaa&tenantName=bbb&... If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.
[recordStatus]	Description	Status flag for the information about deployment and operation times to be retrieved
	Type	ASCII string.

Parameter name	Item	Item description
	Value	Specify one of the following: Multiple can be specified. 　NORMAL 　WARNING 　ERROR Only NORMAL and WARNING are retrieved if this is omitted.

Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetUsagePointResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
 <startDate>[Start date for reference information]</startDate>
 <endDate>[End date for reference information]</endDate>
 <systems date="[Date of the data to be retrieved]">
  <system id="[L-Platform ID]" name="[L-Platform name]" tenantName="[ Tenant name of managed tenant]"
tenantDeleteDate="[Date when managed tenant was deleted]">
   <accountingItems>
    <accountingItem>
     <products>
      <product id="[Product ID]" category="[Category code]" resource="[Resource ID]"
usageUnit="[Accounting unit]" unitPrice="[Unit price]" unitNum="[Unit number]">
       <usagePoint>[Usage point]</usagePoint>
       <usagePointUnit>[Unit of usage point]</usagePointUnit>
      </product>
     </products>
    </accountingItem>
   </accountingItems>
   <servers>
    <server id="[L-Server ID]" name="[L-Server name]">
     </accountingItems>
     <disks>
      <disk id="[Disk ID]" name="[Disk name]">
      </disk>
     </disks>
    </server>
   </servers>
  </system>
 </systems>
</GetUsagePointResponse>
```

<Elements>

Element name	Item	Item description
GetUsagePointResponse	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.

Element name	Item	Item description
		Refer to "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.
	Number of occurrences	1
startDate	Description	Start date for reference information.
	Type	ASCII string.
	Number of occurrences	1
endDate	Description	End date for reference information.
	Type	ASCII string.
	Number of occurrences	1
systems	Description	Set of additional L-Platform template information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". The return is empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	None.
	Number of occurrences	0 or more.
system	Description	Element holding the response information for the list of L-Platform.
	Type	ASCII string.
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
servers	Description	Set of additional L-Server information. id : L-Server ID name: L-Server name
	Type	UTF-8 string.

Element name	Item	Item description
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
server	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disks	Description	Set of additional disk information. id : disk ID name: disk name
	Type	ASCII string.
	Number of occurrences	As many as there are disks elements (more than 0 elements for each disks element).
disk	Description	Set of additional disk information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". The return is empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	ASCII string.
	Number of occurrences	0 or more.
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are system,server,or disk elements (more than 0 elements for each disks element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItems elements (more than 1 elements for each accountingItems element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).
product	Description	Set of product information id: Product ID (*1) category: Category code (*1) resource: Resource ID (*1) usageUnit: Accounting unit (*1) unitPrice: Unit price (*1) unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2) * 1: Values taken are based on the use of a product master. If products are not registered, the attributes are not omitted, but rather the return is empty. * 2: Performance values for each product are returned. - template: 1 (fixed)

Element name	Item	Item description
		- vm: 1 (fixed) - pm: 1 (fixed) - cpu: Number of CPUs - cpu_clock: CPU frequency - memory: Memory size - disk: Disk size
	Type	ASCII string.
	Number of occurrences	As many as there are products elements (more than 0 elements for each products element).
usagePoint	Description	Usage point
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usagePointUnit	Description	Unit of usage point. Specify one of the following: minute (minutes) hour (hours) month (months)
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (1 elements for each product element).

Sample response

```
<?xml version="1.0" encoding="UTF-8" ?>
<GetUsagePointResponse>
<responseMessage>AAPI00000 Process completed.</responseMessage>
<responseStatus>SUCCESS</responseStatus>
<version>1.0</version>
<startDate>2012-01-01</startDate>
<endDate>2012-01-02</endDate>
<systems>
<system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate="">
<accountingItems>
<accountingItem>
<products>
<product id="PID-TMP-001" category="template" resource="template-135562b98d2" usageUnit="month" unitPrice="1000.000" unitNum="1">
<usagePoint>1</usagePoint>
<usagePointUnit>month</usagePointUnit>
</product>
</products>
</accountingItem>
</accountingItems>
<servers>
<server id="Tenant1-IYHPD30VJ-S-0001" name="lserver001">
<accountingItems>
<accountingItem>
<products>
<product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month" unitPrice="800.000" unitNum="1">
<usagePoint>1</usagePoint>
<usagePointUnit>month</usagePointUnit>
</product>
```

```
</products>
</accountingItem>
<accountingItem>
<products>
<product id="PID-CPU-001" category="cpu" resource="/VMHostPool" usageUnit="hour" unitPrice="0.150" unitNum="2">
<usagePoint>630</usagePoint>
<usagePointUnit>minute</usagePointUnit>
</product>
<product id="PID-CLK-001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour" unitPrice="0.100" unitNum="10">
<usagePoint>630</usagePoint>
<usagePointUnit>minute</usagePointUnit>
</product>
</products>
</accountingItem>
<accountingItem>
<products>
<product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour" unitPrice="0.100" unitNum="40">
<usagePoint>150</usagePoint>
<usagePointUnit>minute</usagePointUnit>
</product>
</products>
</accountingItem>
</accountingItems>
<disks>
<disk id="Tenant1-IYHPD30VJ-D-0001" name="disk001">
<accountingItems>
<accountingItem>
<products>
<product id="PID-DSK-001" category="disk" resource="/VMStoragePool" usageUnit="month" unitPrice="1.000" unitNum="200">
<usagePoint>1</usagePoint>
<usagePointUnit>month</usagePointUnit>
</product>
</products>
</accountingItem>
</accountingItems>
</disk>
</disks>
</server>
</servers>
</system>
</systems>
</GetUsagePointResponse>
```

3.2.2 RegisterUsagePoint (Register Usage Point)

Register the usage point.

Request body

<Elements>

Element name	Item	Item description
Request	Description	Element holding the request information.
	Type	None.
	Number of occurrences	1

Element name	Item	Item description
param	Description	Parameter. name : Specify the parameter name(*), set the value into tag. *) list of parameter action : Fixed. Specify "RegisterUsagePoint". version : Specify version of API. If this parameter is omitted, the default value is the newest version.
	Type	ASCII string.
	Number of occurrences	1 or more.
Body	Description	Body.
	Type	None.
	Number of occurrences	1
systems	Description	Set of additional L-Platform template information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". Specify empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	None.
	Number of occurrences	0 or more.
system	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
servers	Description	Set of additional L-Server information. id : L-Server ID name: L-Server name
	Type	UTF-8 string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
server	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disks	Description	Set of additional disk information.
	Type	ASCII string.
	Number of occurrences	As many as there are systems elements (more than 0 elements for each systems element).
disk	Description	Set of additional disk information. id : L-Platform ID name : L-Platform name
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	0 or more.
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are system,server, or disk elements (more than 0 elements for each disks element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItems elements (more than 1 elements for each accountingItems element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).
product	Description	Set of product information id: Product ID (*1) category: Category code (*1) resource: Resource ID (*1) usageUnit: Accounting unit (*1) unitPrice: Unit price (*1) unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2) * 1: Values taken are based on the use of a product master. If products are not registered, the attributes are not omitted, but rather the return is empty. * 2: Performance values for each product are returned. - template: 1 (fixed) - vm: 1 (fixed) - pm: 1 (fixed) - cpu: Number of CPUs - cpu_clock: CPU frequency - memory: Memory size - disk: Disk size
	Type	ASCII string.
	Number of occurrences	As many as there are products elements (more than 0 elements for each products element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usagePointUnit	Description	Unit of usage point. Specify one of the following: minute (minutes) hour (hours) month (months)
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (1 elements for each product element).

Sample request body

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Request>
 <param name="action">RegisterUsagePoint</param>
 <Body>
  <systems date="2012-01-02">
   <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDisplayName=""
tenantDeleteDate="">
    <accountingItems>
     <accountingItem>
      <products>
       <product id="PID-TMP-001" category="template" resource="template-135562b98d2"
usageUnit="month" unitPrice="1000.000" unitNum="1">
        <usagePoint>1</usagePoint>
        <usagePointUnit>month</usagePointUnit>
       </product>
      </products>
     </accountingItem>
    </accountingItems>
    <servers>
     <server id="Tenant1-IYHPD30VJ-S-0001" name="lserver001">
      <accountingItems>
       <accountingItem>
        <products>
         <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
          <usagePoint>1</usagePoint>
          <usagePointUnit>month</usagePointUnit>
         </product>
        </products>
       </accountingItem>
       <accountingItem>
        <products>
         <product id="PID-CPU-001" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="2">
          <usagePoint>630</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
         </product>
         <product id="PID-CLK-001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="10">
          <usagePoint>630</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
         </product>
        </products>
       </accountingItem>
       <accountingItem>
        <products>
         <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="40">
          <usagePoint>150</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
         </product>
        </products>
       </accountingItem>
      </accountingItems>
      <disks>
       <disk id="Tenant1-IYHPD30VJ-D-0001" name="disk001">
        <accountingItems>
         <accountingItem>
          <products>
           <product id="PID-DSK-001" category="disk" resource="/VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
```

```
              <usagePoint>1</usagePoint>
              <usagePointUnit>month</usagePointUnit>
            </product>
          </products>
        </accountingItem>
      </accountingItems>
    </disk>
   </disks>
  </server>
 </servers>
</system>
</systems>
</Body>
</Request>
```

Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<RegisterUsagePointResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
</RegisterUsagePointResponse>
```

<Elements>

Element name	Item	Item description
RegisterUsagePointResponse	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 "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	1

Sample response

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

<RegisterUsagePointResponse>

<responseMessage>PAPI00000 Process completed.</responseMessage>

<responseStatus>SUCCESS</responseStatus>

<version>1.0</version>

</RegisterUsagePointResponse>

3.3 Daily Usage Charge Operations

This section explains the accounting API as it relates to daily usage charge operations.

3.3.1 GetDailyCharge (Get Daily Usage Charges)

Get the daily usage charges.

Request parameters

Parameter name	Item	Item description
[version]	Description	Version ID of the accounting API
	Type	ASCII string.
	Value	Fixed. Specify "1.0". The latest version is used if this is omitted.
action	Description	The name of the accounting API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetUsagePoint".
[startDate]	Description	Start date for information to be retrieved
	Type	ASCII string.
	Value	Specify using the format "yyyy-MM-dd". The start date cannot be any day after the endDate, the day the API is executed, or any date after this. If this is omitted, the day previous to when the API is executed will be used.
[endDate]	Description	End date for information to be retrieved
	Type	ASCII string.
	Value	Specify using the format "yyyy-MM-dd". The end date cannot be any day before the startDate, the day the API is executed, or any date after this. If this is omitted, the day previous to when the API is executed will be used.
[sum]	Description	Option to determine whether to output the retrieved information for each day, or to sum.
	Type	ASCII string.
	Value	One of the following can be specified: true : Output summed value false: Output for each day If nothing was specified, the setting will be considered to be "false".

Parameter name	Item	Item description
[lplatformId]	Description	Retrieve information for specified L-Platform
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple.
		For example, lplatformId=aaa&lplatformId=bbb&...
		If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.
[tenantName]	Description	Retrieve information for specified tenant.
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple.
		For example, tenantName=aaa&tenantName=bbb&...
		If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.

Response

<Status code>

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

<XML>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetDailyChargeResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
 <startDate>[Start date for reference information]</startDate>
 <endDate>[End date for reference information]</endDate>
 <systems date="[Date when get the data]">
  <system id="[L-Platform ID]" name="[L-Platform name]" tenantName="[Tenant name of managed tenant]"
tenantDeleteDate="[Date when managed tenant was deleted]">
   <totalCharge>[Total of daily usage charges]</totalCharge>
   <accountingItems>
    <accountingItem>
     <subtotalCharge>[Subtotal of daily usage charges]</subtotalCharge>
     <products>
      <product id="[Product ID]" category="[Category code]" resource="[Resource ID]"
usageUnit="[Accounting unit]" unitPrice="[Unit price]" unitNum="[Unitnumber]">
       <usagePoint>[Usage point]</usagePoint>
       <usagePointUnit>[Unit of usage point]</usagePointUnit>
       <usageCharge>[Daily usage charges]</usageCharge>
      </product>
     </products>
    </accountingItem>
   </accountingItems>
   <servers>
    <server id="[L-Server ID]" name="[L-Server name]">
     <disks>
      <disk id="[Disk ID]" name="[Disk name]">
      </disk>
     </disks>
    </server>
   </servers>
  </system>
 </systems>
</GetDailyChargeResponse>
```

<Elements>

Element name	Item	Item description
GetDailyChargeResponse	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 "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.
	Number of occurrences	1
startDate	Description	Start date for reference information.
	Type	ASCII string.
	Number of occurrences	1
endDate	Description	End date for reference information.
	Type	ASCII string.
	Number of occurrences	1
systems	Description	Set of additional L-Platform template information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". The return is empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	None.
	Number of occurrences	0 or more.
system	Description	Element holding the response information for the list of L-Platform.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
totalCharge	Description	Total of daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are system elements (1 element for each system element).
servers	Description	Set of additional L-Server information. id : L-Server ID name: L-Server name
	Type	UTF-8 string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
server	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disks	Description	Set of additional disk information.
	Type	ASCII string.
	Number of occurrences	As many as there are systems elements (more than 0 elements for each systems element).
disk	Description	Set of additional disk information. id : L-Platform ID name : L-Platform name
	Type	ASCII string.
	Number of occurrences	0 or more.
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are system, server, or disk elements (more than 0 elements for each disks element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItems elements (more than 1 elements for each accountingItems element).
subtotalCharge	Description	Subtotal of daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are accountingItem elements (1 elements for each accountingItem element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).

Element name	Item	Item description
product	Description	Set of product information id: Product ID (*1) category: Category code (*1) resource: Resource ID (*1) usageUnit: Accounting unit (*1) unitPrice: Unit price (*1) unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2) * 1: Values taken are based on the use of a product master. If products are not registered, the attributes are not omitted, but rather the return is empty. * 2: Performance values for each product are returned. - template: 1 (fixed) - vm: 1 (fixed) - pm: 1 (fixed) - cpu: Number of CPUs - cpu_clock: CPU frequency - memory: Memory size - disk: Disk size
	Type	ASCII string.
	Number of occurrences	As many as there are products elements (more than 0 elements for each products element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usagePointUnit	Description	Unit of usage point. Specify one of the following: minute (minutes) hour (hours) month (months)
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usageCharge	Description	Daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).

Sample response

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<GetDailyChargeResponse>
 <responseMessage>AAPI00000 Process completed.</responseMessage>
 <responseStatus>SUCCESS</responseStatus>
 <version>1.0</version>
 <startDate>2012-01-01</startDate>
 <endDate>2012-01-02</endDate>
 <systems>
  <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate="">
   <accountingItems>
    <accountingItem>
     <subtotalCharge>1000.000</subtotalCharge>
      <products>
```

```xml
      <product id="PID-TMP-001" category="template" resource="template-135562b98d2" usageUnit="month"
unitPrice="1000.000" unitNum="1">
        <usagePoint>1</usagePoint>
        <usagePointUnit>month</usagePointUnit>
        <usageCharge>1000.000</usageCharge>
       </product>
      </products>
    </accountingItem>
   </accountingItems>
   <servers>
    <server id="Tenant1-IYHPD30VJ-S-0001" name="lserver001">
     <accountingItems>
      <accountingItem>
       <subtotalCharge>800.000</subtotalCharge>
       <products>
        <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
         <usagePoint>1</usagePoint>
         <usagePointUnit>month</usagePointUnit>
         <usageCharge>800.000</usageCharge>
        </product>
       </products>
      </accountingItem>
      <accountingItem>
       <subtotalCharge>24.150</subtotalCharge>
       <products>
        <product id="PID-CPU-001" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="2">
         <usagePoint>630</usagePoint>
         <usagePointUnit>minute</usagePointUnit>
         <usageCharge>3.150</usageCharge>
        </product>
        <product id="PID-CLK-001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="10">
         <usagePoint>630</usagePoint>
         <usagePointUnit>minute</usagePointUnit>
         <usageCharge>21.000</usageCharge>
        </product>
       </products>
      </accountingItem>
      <accountingItem>
       <subtotalCharge>10.000</subtotalCharge>
       <products>
        <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="40">
         <usagePoint>150</usagePoint>
         <usagePointUnit>minute</usagePointUnit>
         <usageCharge>10.000</usageCharge>
        </product>
       </products>
      </accountingItem>
     </accountingItems>
     <disks>
      <disk id="Tenant1-IYHPD30VJ-D-0001" name="disk001">
       <accountingItems>
        <accountingItem>
         <subtotalCharge>200</subtotalCharge>
         <products>
          <product id="PID-DSK-001" category="disk" resource="/VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
           <usagePoint>1</usagePoint>
           <usagePointUnit>month</usagePointUnit>
           <usageCharge>200</usageCharge>
```

```
          </product>
        </products>
      </accountingItem>
     </accountingItems>
    </disk>
   </disks>
  </server>
 </servers>
 </system>
 </systems>
</GetDailyChargeResponse>
```

3.3.2 RegisterDailyCharge (Register Daily Usage Charges)

Register the daily usage charges.

Request body

<Elements>

Element name	Item	Item description
Request	Description	Element holding the request information.
	Type	None.
	Number of occurrences	1
param	Description	Parameter. name : Specify the parameter name(*), set the value into tag. *) list of parameter action : Fixed. Specify " RegisterDailyCharge". version : Specify version of API. If this parameter is omitted, the default value is the newest version.
	Type	ASCII string.
	Number of occurrences	1 or more.
Body	Description	Body.
	Type	None.
	Number of occurrences	1
systems	Description	Set of additional L-Platform template information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". Specify empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	None.
	Number of occurrences	0 or more.
system	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.

Element name	Item	Item description
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
servers	Description	Set of additional L-Server information. id : L-Server ID name: L-Server name
	Type	UTF-8 string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
server	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disks	Description	Set of additional disk information.
	Type	ASCII string.
	Number of occurrences	As many as there are systems elements (more than 0 elements for each systems element).
disk	Description	Set of additional disk information. id : L-Platform ID name : L-Platform name
	Type	ASCII string.
	Number of occurrences	0 or more.
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are system,server, or disk elements (more than 0 elements for each disks element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItems elements (more than 1 elements for each accountingItems element).
subtotalCharge	Description	Subtotal of daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are accountingItem elements (1 elements for each accountingItem element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).
product	Description	Set of product information id: Product ID (*1) category: Category code (*1) resource: Resource ID (*1) usageUnit: Accounting unit (*1)

Element name	Item	Item description
		unitPrice: Unit price (*1)
		unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2)
		* 1: Values taken are based on the use of a product master. If products are not registered, the attributes are not omitted, but rather the return is empty.
		* 2: Performance values for each product are returned.
		- template: 1 (fixed)
		- vm: 1 (fixed)
		- pm: 1 (fixed)
		- cpu: Number of CPUs
		- cpu_clock: CPU frequency
		- memory: Memory size
		- disk: Disk size
	Type	ASCII string.
	Number of occurrences	As many as there are products elements (more than 0 elements for each products element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usagePointUnit	Description	Unit of usage point. Specify one of the following: minute (minutes) hour (hours) month (months)
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usageCharge	Description	Daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are products elements (1 elements for each products element).

Sample request body

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Request>
 <param name="action">RegisterDailyCharge</param>
 <Body>
  <systems date="2012-01-01">
   <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate="">
    <accountingItems>
     <accountingItem>
      <subtotalCharge>1000.000</subtotalCharge>
      <products>
       <product id="PID-TMP-001" category="template" resource="template-135562b98d2"
usageUnit="month" unitPrice="1000.000" unitNum="1">
        <usagePoint>1</usagePoint>
        <usagePointUnit>month</usagePointUnit>
        <usageCharge>1000.000</usageCharge>
       </product>
      </products>
     </accountingItem>
    </accountingItems>
```

```xml
    <servers>
     <server id="Tenant1-IYHPD30VJ-S-0001" name="lserver001">
      <accountingItems>
       <accountingItem>
        <subtotalCharge>800.000</subtotalCharge>
        <products>
         <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
          <usagePoint>1</usagePoint>
          <usagePointUnit>month</usagePointUnit>
          <usageCharge>800.000</usageCharge>
         </product>
        </products>
       </accountingItem>
       <accountingItem>
        <subtotalCharge>24.150</subtotalCharge>
        <products>
         <product id="PID-CPU-001" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="2">
          <usagePoint>630</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>3.150</usageCharge>
         </product>
         <product id="PID-CLK-001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="10">
          <usagePoint>630</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>21.000</usageCharge>
         </product>
        </products>
       </accountingItem>
       <accountingItem>
        <subtotalCharge>10.000</subtotalCharge>
        <products>
         <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="40">
          <usagePoint>150</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>10.000</usageCharge>
         </product>
        </products>
       </accountingItem>
      </accountingItems>
      <disks>
       <disk id="Tenant1-IYHPD30VJ-D-0001" name="disk001">
        <accountingItems>
         <accountingItem>
          <subtotalCharge>200</subtotalCharge>
          <products>
           <product id="PID-DSK-001" category="disk" resource="/VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
            <usagePoint>1</usagePoint>
            <usagePointUnit>month</usagePointUnit>
            <usageCharge>200.000</usageCharge>
           </product>
          </products>
         </accountingItem>
        </accountingItems>
       </disk>
      </disks>
     </server>
    </servers>
   </system>
```

```
    </systems>
  </Body>
</Request>
```

Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<RegisterDailyChargeResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
</RegisterDailyChargeResponse>
```

<Elements>

Element name	Item	Item description
RegisterDailyChargeResponse	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 "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.
	Number of occurrences	1

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<RegisterDailyChargeResponse>
 <responseMessage>PAPI00000 Process completed.</responseMessage>
 <responseStatus>SUCCESS</responseStatus>
```

```
<version>1.0</version>
</RegisterDailyChargeResponse>
```

3.4 Monthly Usage Charge Operations

This section explains the accounting API as it relates to monthly usage Charge operations.

3.4.1 GetMonthlyCharge (Get Monthly Usage Charges)

Get the monthly usage charges.

Request parameters

Parameter name	Item	Item description
[version]	Description	Version ID of the accounting API
	Type	ASCII string.
	Value	Fixed. Specify "1.0". The latest version is used if this is omitted.
action	Description	The name of the accounting API to be executed.
	Type	ASCII string.
	Value	Fixed. Specify "GetUsagePoint".
[startDate]	Description	Specify using the format "yyyy-MM". The start date cannot be any month after the endDate, the month the API is executed, or any date after this. If this is omitted, the month previous to when the API is executed will be used.
	Type	ASCII string.
	Value	The start date cannot be any month after the endDate, the month the API is executed, or any date after this. If this is omitted, the month previous to when the API is executed will be used.
[endDate]	Description	Specify using the format "yyyy-MM". The end date cannot be any month before the startDate, the month the API is executed, or any date after this. If this is omitted, the month previous to when the API is executed will be used.
	Type	ASCII string.
	Value	The end date cannot be any month before the startDate, the month the API is executed, or any date after this. If this is omitted, the month previous to when the API is executed will be used.
[sum]	Description	Option to determine whether to output the retrieved information for each month, or to sum.
	Type	ASCII string.
	Value	One of the following can be specified: true : Output summed value false: Output for each day If nothing was specified, the setting will be considered to be "false".
[lplatformId]	Description	Retrieve information for specified L-Platform
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple. For example, lplatformId=aaa&lplatformId=bbb&... If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.

Parameter name	Item	Item description
[tenantName]	Description	Retrieve information for specified tenant.
	Type	ASCII string.
	Value	Specify in each parameter when specifying multiple. For example, tenantName=aaa&tenantName=bbb&... If an "lplatformId" is specified, a "tenantName" cannot be specified and vice versa.

Response

<Status code>

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

<XML>

```xml
<?xml version="1.0" encoding="UTF-8"?>
<GetMonthlyChargeResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
 <startDate>[Start date for reference information]</startDate>
 <endDate>>[End date for reference information]</endDate>
 <systems date="2012-01">
  <system id="[L-Platform ID]" name="[L-Platform name]" tenantName="[Tenant name of managed tenant]"
tenantDeleteDate="[Date when managed tenant was deleted]">
   <totalCharge>[Total of monthly usage charges.]</totalCharge>
   <accountingItems>
    <accountingItem>
     <subtotalCharge>[Subtotal of daily usage charges]</subtotalCharge>
     <products>
      <product id="[Product ID]" category="[Category code]" resource="[Resource ID]"
usageUnit="[Accounting unit]" unitPrice="[Unit price]" unitNum="[Unit number]">
       <usagePoint>[Usage point]</usagePoint>
       <usagePointUnit>[Unit of usage point]</usagePointUnit>
       <usageCharge>[Monthly usage charges]</usageCharge>
      </product>
     </products>
    </accountingItem>
   </accountingItems>
   <servers>
    <server id="[L-Server ID]" name="[L-Server name]">
     <disks>
      <disk id="[Disk ID]" name="[Disk name]">
      </disk>
     </disks>
    </server>
   </servers>
  </system>
 </systems>
</GetMonthlyChargeResponse>
```

<Elements>

Element name	Item	Item description
GetMonthlyChargeResponse	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 "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.
	Number of occurrences	1
startDate	Description	Start date for reference information.
	Type	ASCII string.
	Number of occurrences	1
endDate	Description	End date for reference information.
	Type	ASCII string.
	Number of occurrences	1
systems	Description	Set of additional L-Platform template information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". The return is empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	None.
	Number of occurrences	0 or more.
system	Description	Element holding the response information for the list of L-Platform.
	Type	ASCII string.
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
totalCharge	Description	Total of monthly usage charges.

Element name	Item	Item description
	Type	decimal
	Number of occurrences	As many as there are system elements (1 element for each system element).
servers	Description	Set of additional L-Server information. id : L-Server ID name: L-Server name
	Type	UTF-8 string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
server	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disks	Description	Set of additional disk information.
	Type	ASCII string.
	Number of occurrences	As many as there are systems elements (more than 0 elements for each systems element).
disk	Description	Set of additional disk information. id : L-Platform ID name : L-Platform name
	Type	ASCII string.
	Number of occurrences	0 or more.
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are system,server, or disk elements (more than 0 elements for each disks element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItems elements (more than 1 elements for each accountingItems element).
subtotalCharge	Description	Subtotal of daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are accountingItem elements (1 elements for each accountingItem element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).
product	Description	Set of product information id: Product ID (*1) category: Category code (*1) resource: Resource ID (*1)

Element name	Item	Item description
		usageUnit: Accounting unit (*1) unitPrice: Unit price (*1) unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2) * 1: Values taken are based on the use of a product master. If products are not registered, the attributes are not omitted, but rather the return is empty. * 2: Performance values for each product are returned. - template: 1 (fixed) - vm: 1 (fixed) - pm: 1 (fixed) - cpu: Number of CPUs - cpu_clock: CPU frequency - memory: Memory size - disk: Disk size
	Type	ASCII string.
	Number of occurrences	As many as there are products elements (more than 0 elements for each products element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usagePointUnit	Description	Unit of usage point. Specify one of the following: minute (minutes) hour (hours) month (months)
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usageCharge	Description	Monthly usage charges.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).

Sample response

```
<?xml version="1.0" encoding="UTF-8" ?>
<GetMonthlyChargeResponse>
<responseMessage>AAPI00000 Process completed.</responseMessage>
<responseStatus>SUCCESS</responseStatus>
<version>1.0</version>
<startDate>2012-01</startDate>
<endDate>2012-01</endDate>
<systems date="2012-01">
 <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate="">
  <totalCharge>3504.000</totalCharge>
  <accountingItems>
   <accountingItem>
    <subtotalCharge>1000.000</subtotalCharge>
    <products>
     <product id="PID-TMP-001" category="template" resource="template-135562b98d2" usageUnit="month"
unitPrice="1000.000" unitNum="1">
      <usagePoint>1</usagePoint>
      <usagePointUnit>month</usagePointUnit>
```

```xml
      <usageCharge>1000.000</usageCharge>
     </product>
    </products>
   </accountingItem>
   <accountingItem>
    <subtotalCharge>1000.000</subtotalCharge>
     <products>
      <product id="PID-TMP-002" category="template" resource="template-135562b98d2" usageUnit="month"
unitPrice="500.000" unitNum="1">
       <usagePoint>1</usagePoint>
       <usagePointUnit>month</usagePointUnit>
       <usageCharge>1000.000</usageCharge>
      </product>
     </products>
   </accountingItem>
  </accountingItems>
  <servers>
   <server id="Tenant1-IYHPD30VJ-S-0001" name="lserver001">
    <accountingItems>
     <accountingItem>
      <subtotalCharge>800.000</subtotalCharge>
       <products>
        <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
         <usagePoint>1</usagePoint>
         <usagePointUnit>month</usagePointUnit>
         <usageCharge>800.000</usageCharge>
        </product>
       </products>
     </accountingItem>
     <accountingItem>
      <subtotalCharge>50.000</subtotalCharge>
       <products>
        <product id="PID-VIM-002" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="50.000" unitNum="1">
         <usagePoint>1</usagePoint>
         <usagePointUnit>month</usagePointUnit>
         <usageCharge>50.000</usageCharge>
        </product>
       </products>
     </accountingItem>
     <accountingItem>
      <subtotalCharge>24.150</subtotalCharge>
       <products>
        <product id="PID-CPU-001" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="2">
         <usagePoint>630</usagePoint>
         <usagePointUnit>minute</usagePointUnit>
         <usageCharge>3.150</usageCharge>
        </product>
        <product id="PID-CLK-001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="10">
         <usagePoint>630</usagePoint>
         <usagePointUnit>minute</usagePointUnit>
         <usageCharge>21.000</usageCharge>
        </product>
       </products>
     </accountingItem>
     <accountingItem>
      <subtotalCharge>10.000</subtotalCharge>
       <products>
        <product id="PID-CPU-002" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="5.0" unitNum="1">
```

```xml
        <usagePoint>1</usagePoint>
        <usagePointUnit>minute</usagePointUnit>
        <usageCharge>5.0</usageCharge>
       </product>
       <product id="PID-CLK-002" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="5.0" unitNum="1">
        <usagePoint>1</usagePoint>
        <usagePointUnit>minute</usagePointUnit>
        <usageCharge>5.000</usageCharge>
       </product>
      </products>
     </accountingItem>
     <accountingItem>
      <subtotalCharge>10.000</subtotalCharge>
      <products>
       <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="40">
        <usagePoint>150</usagePoint>
        <usagePointUnit>minute</usagePointUnit>
        <usageCharge>10.000</usageCharge>
       </product>
      </products>
     </accountingItem>
     <accountingItem>
      <subtotalCharge>10.000</subtotalCharge>
      <products>
       <product id="PID-MEM-002" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="10.00" unitNum="1">
        <usagePoint>1</usagePoint>
        <usagePointUnit>minute</usagePointUnit>
        <usageCharge>10.000</usageCharge>
       </product>
      </products>
     </accountingItem>
    </accountingItems>
    <disks>
     <disk id="Tenant1-IYHPD30VJ-D-0001" name="disk001">
      <accountingItems>
       <accountingItem>
       <subtotalCharge>200</subtotalCharge>
       <products>
        <product id="PID-DSK-001" category="disk" resource="/VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
         <usagePoint>1</usagePoint>
         <usagePointUnit>month</usagePointUnit>
         <usageCharge>200</usageCharge>
        </product>
       </products>
       </accountingItem>
       <accountingItem>
       <subtotalCharge>100</subtotalCharge>
        <products>
        <product id="PID-DSK-001" category="disk" resource="/VMStoragePool" usageUnit="month"
unitPrice="100.000" unitNum="1">
         <usagePoint>1</usagePoint>
         <usagePointUnit>month</usagePointUnit>
         <usageCharge>100</usageCharge>
        </product>
        </products>
       </accountingItem>
      </accountingItems>
     </disk>
     <disk id="Tenant1-IYHPD30VJ-D-0002" name="disk002">
```

```
        <accountingItems>
         <accountingItem>
          <subtotalCharge>300</subtotalCharge>
          <products>
           <product id="PID-DSK-002" category="disk" resource="/VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1</usagePoint>
            <usagePointUnit>month</usagePointUnit>
            <usageCharge>300</usageCharge>
           </product>
          </products>
         </accountingItem>
        </accountingItems>
       </disk>
      </disks>
    </server>
   </servers>
  </system>
 </systems>
</GetMonthlyChargeResponse>
```

3.4.2 RegisterMonthlyCharge (Register Monthly Usage Charges)

Register the monthly usage charges.

Request body

<Elements>

Element name	Item	Item description
Request	Description	Element holding the request information.
	Type	None.
	Number of occurrences	1
param	Description	Parameter. name : Specify the parameter name(*), set the value into tag. *) list of parameter action : Fixed. Specify " RegisterMonthlyCharge". version : Specify version of API. If this parameter is omitted, the default value is the newest version.
	Type	ASCII string.
	Number of occurrences	1 or more.
Body	Description	Body.
	Type	None.
	Number of occurrences	1
systems	Description	Set of additional L-Platform template information. id : L-Platform ID name : L-Platform name tenantName: Tenant name of managed tenant tenantDeleteDate: Date when managed tenant was deleted Format is "yyyy-MM-dd'T'HH:mm:ss.SSSZ". Specify empty if the tenant has not been deleted. This attribute cannot be omitted.

Element name	Item	Item description
	Type	None.
	Number of occurrences	0 or more.
system	Description	Element holding the response information for the list of L-Platform.
	Type	ASCII string.
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
totalCharge	Description	Total of monthly usage charges.If omitted, the API will sum the subtotalCharge values and register them in the DB.
	Type	decimal
	Number of occurrences	As many as there are system elements (0 or 1 element for each system element).
servers	Description	Set of additional L-Server information. id : L-Server ID name: L-Server name
	Type	UTF-8 string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
server	Description	Element holding the response information for the list of L-Server.
	Type	ASCII string.
	Number of occurrences	As many as there are servers elements (0 or 1 element for each servers element).
disks	Description	Set of additional disk information.
	Type	ASCII string.
	Number of occurrences	As many as there are systems elements (more than 0 elements for each systems element).
disk	Description	Set of additional disk information. id : L-Platform ID name : L-Platform name
	Type	ASCII string.
	Number of occurrences	0 or more.
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are system,server, or disk elements (more than 0 elements for each disks element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItems elements (more than 1 elements for each accountingItems element).
subtotalCharge	Description	Subtotal of monthly usage charges.
	Type	decimal

Element name	Item	Item description
	Number of occurrences	As many as there are accountingItem elements (1 elements for each accountingItem element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string.
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).
product	Description	Set of product information id: Product ID (*1) category: Category code (*1) resource: Resource ID (*1) usageUnit: Accounting unit (*1) unitPrice: Unit price (*1) unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2) * 1: Values taken are based on the use of a product master. If products are not registered, the attributes are not omitted, but rather the return is empty. * 2: Performance values for each product are returned. - template: 1 (fixed) - vm: 1 (fixed) - pm: 1 (fixed) - cpu: Number of CPUs - cpu_clock: CPU frequency - memory: Memory size - disk: Disk size
	Type	ASCII string.
	Number of occurrences	As many as there are products elements (more than 0 elements for each products element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usagePointUnit	Description	Unit of usage point. Specify one of the following: minute (minutes) hour (hours) month (months)
	Type	ASCII string.
	Number of occurrences	As many as there are product elements (1 elements for each product element).
usageCharge	Description	Monthly usage charges.
	Type	decimal
	Number of occurrences	As many as there are products elements (1 elements for each product element).

Sample request body

```
<?xml version="1.0" encoding="UTF-8"?>
<Request>
 <param name="action">RegisterMonthlyCharge</param>
 <Body>
```

```xml
  <systems date="2012-01">
   <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate="">
    <totalCharge>2382.15</totalCharge>
    <accountingItems>
     <accountingItem>
      <subtotalCharge>1000.000</subtotalCharge>
      <products>
       <product id="PID-TMP-001" category="template" resource="template-135562b98d2"
usageUnit="month" unitPrice="1000.000" unitNum="1">
        <usagePoint>1</usagePoint>
        <usagePointUnit>month</usagePointUnit>
        <usageCharge>1000.000</usageCharge>
       </product>
      </products>
     </accountingItem>
    </accountingItems>
    <servers>
     <server id="Tenant1-IYHPD30VJ-S-0001" name="lserver001">
      <accountingItems>
       <accountingItem>
        <subtotalCharge>800.000</subtotalCharge>
        <products>
         <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
          <usagePoint>1</usagePoint>
          <usagePointUnit>month</usagePointUnit>
          <usageCharge>800.000</usageCharge>
         </product>
        </products>
       </accountingItem>
       <accountingItem>
        <subtotalCharge>24.150</subtotalCharge>
        <products>
         <product id="PID-CPU-001" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="2">
          <usagePoint>630</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>3.150</usageCharge>
         </product>
         <product id="PID-CLK-001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="10">
          <usagePoint>630</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>21.000</usageCharge>
         </product>
        </products>
       </accountingItem>
       <accountingItem>
        <subtotalCharge>10.000</subtotalCharge>
        <products>
         <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="40">
          <usagePoint>150</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>10.000</usageCharge>
         </product>
        </products>
       </accountingItem>
       <accountingItem>
        <subtotalCharge>48.000</subtotalCharge>
        <products>
         <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="40">
```

```
          <usagePoint>480</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>48.000</usageCharge>
        </product>
       </products>
     </accountingItem>
    </accountingItems>
    <disks>
     <disk id="Tenant1-IYHPD30VJ-D-0001" name="disk001">
      <accountingItems>
       <accountingItem>
        <subtotalCharge>200</subtotalCharge>
        <products>
         <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
          <usagePoint>1</usagePoint>
          <usagePointUnit>month</usagePointUnit>
          <usageCharge>200.000</usageCharge>
         </product>
        </products>
       </accountingItem>
      </accountingItems>
     </disk>
     <disk id="Tenant1-IYHPD30VJ-D-0002" name="disk002">
      <accountingItems>
       <accountingItem>
        <subtotalCharge>300</subtotalCharge>
        <products>
         <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
          <usagePoint>1</usagePoint>
          <usagePointUnit>month</usagePointUnit>
          <usageCharge>300.000</usageCharge>
         </product>
        </products>
       </accountingItem>
      </accountingItems>
     </disk>
    </disks>
   </server>
  </servers>
 </system>
 </systems>
 </Body>
</Request>
```

Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<RegisterMonthlyChargeResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
</RegisterMonthlyChargeResponse>
```

<Elements>

Element name	Item	Item description
RegisterMonthlyChargeResponse	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 "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.
	Number of occurrences	1

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<RegisterMonthlyChargeResponse>
 <responseMessage>PAPI00000 Process completed.</responseMessage>
 <responseStatus>SUCCESS</responseStatus>
 <version>1.0</version>
</RegisterMonthlyChargeResponse>
```

3.5 Tenant Operations

This section explains the accounting API as it relates to tenant operations.

3.5.1 GetTenants (Get a List of Tenant Information)

Get a list of tenant information.

Request parameters

Parameter name	Item	Item description
[version]	Description	Version ID of the accounting API
	Type	ASCII string.
	Value	Fixed. Specify "1.0". The latest version is used if this is omitted.
action	Description	The name of the accounting API to be executed.

Parameter name	Item	Item description
	Type	ASCII string.
	Value	Fixed. Specify "GetTenants".
[searchTenantName]	Description	Acquired tenant name.
	Type	ASCII string.
	Value	Retrieve information for the specified tenant. If this is specified, "true" will always be specified for "verbose". If this is omitted, information is retrieved for all tenants. Multiple can be specified. Detailed information for all specified tenants is retrieved if multiple are specified. If multiple are specified, deleteDate cannot be specified.
[deleteDate]	Description	The day of delete tenant.
	Type	ASCII string.
	Value	yyyy-MM-ddTHH:mm:ss.SSSZ If this is omitted, the default value is the information of tenant with unset the delete date.
[deleteTenant]	Description	This element indicates whether the include dereted tenant with list of tenant.
	Type	ASCII string.
	Value	Specify one of the following: true: include false: exclude If this parameter is omitted, the default value is "false".
[verbose]	Description	This element indicates whether the include detail informaton of tenant.
	Type	ASCII string.
	Value	Specify one of the following: true: include false: exclude If this parameter is omitted, the default value is "false".

Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetTenantsResponse>
 <responseMessage>[Message]</responseMessage>
 <responseStatus>[Status]</responseStatus>
 <version>[Version]</version>
 <tenants>
  <tenant>
   <tenantName>[Tenant name]</tenantName>
   <displayName>[Display name]</displayName>
   <cutOffDate>[Cut-off date]</cutOffDate>
   <postCutOffDate>[Next cut-off date]</postCutOffDate>
   <latestCutOffDate>[Latest cut-off date]</latestCutOffDate>
   <accountingMailAddress>[Email address to send the usage accounts]</accountingMailAddress>
   <registerDate>[The time and date of register the tenant]</registerDate>
   <deleteDate>[The time and date of delete the tenant]</deleteDate>
  </tenant>
```

```
   </tenants>
</GetTenantsResponse>
```

<Elements>

Element name	Item	Item description
GetTenantsResponse	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 "Chapter 5 Messages Starting with AAPI" in the "Messages" 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 "Appendix B List of Response Status Error Codes(Accounting APIs)" for information on error codes.
	Type	ASCII string.
	Number of occurrences	1
version	Description	The version ID of the API.
	Type	ASCII string.
	Number of occurrences	1
tenants	Description	Element holding the response information for the list of tenant information.
	Type	None.
	Number of occurrences	1
tenant	Description	Set of additional list of tenant information.
	Type	None.
	Number of occurrences	0 or more.
tenantName	Description	Tenant name.
	Type	ASCII string.
	Number of occurrences	As many as there are tenant elements (1 elements for each tenant element).
displayName	Description	Display name.
	Type	ASCII string.
	Number of occurrences	As many as there are tenant elements (1 elements for each tenant element).

Element name	Item	Item description
cutOffDate	Description	Cut-off date. Output only when verbose=true is specified.
	Type	decimal
	Number of occurrences	As many as there are tenant elements (0 or 1 elements for each tenant element).
postCutOffDate	Description	Next cut-off date. Output only when verbose=true is specified.
	Type	decimal
	Number of occurrences	As many as there are tenant elements (0 or 1 elements for each tenant element).
latestCutOffDate	Description	Latest cut-off date. Output only when verbose=true is specified.
	Type	decimal
	Number of occurrences	As many as there are tenant elements (0 or 1 elements for each tenant element).
accountingMailAddress	Description	Email address to send the usage accounts. Output only when verbose=true is specified.
	Type	ASCII string.
	Number of occurrences	As many as there are tenant elements (0 or 1 elements for each tenant element).
registerDate	Description	The time and date of register the tenant. Output only when verbose=true is specified.
	Type	Date string.
	Number of occurrences	As many as there are tenant elements (0 or 1 elements for each tenant element).
deleteDate	Description	The time and date of delete the tenant.
	Type	Date string.
	Number of occurrences	As many as there are tenant elements (0 or 1 elements for each tenant element).

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetTenantsResponse>
 <responseMessage>PAPI00000 Process completed.</responseMessage>
 <responseStatus>SUCCESS</responseStatus>
 <version>1.0</version>
 <tenants>
  <tenant>
   <tenantName>Tenant1</tenantName>
   <displayName>tenant1</displayName>
   <cutOffDate>25</cutOffDate>
   <postCutOffDate>2012-02-25</postCutOffDate>
   <latestCutOffDate>2012-01-25</latestCutOffDate>
   <accountingMailAddress>tenant1@example.com</accountingMailAddress>
   <registerDate>2011-01-01T10:30:00.000+0900</registerDate>
   <deleteDate></deleteDate>
  </tenant>
  <tenant>
   <tenantName>Tenant2</tenantName>
```

```xml
    <displayName>tenant2</displayName>
    <cutOffDate>31</cutOffDate>
    <postCutOffDate>2012-02-29</postCutOffDate>
    <latestCutOffDate>2012-01-25</latestCutOffDate>
    <accountingMailAddress>tenant2@exmaple.com</accountingMailAddress>
    <registerDate>2011-07-18T10:30:00.000+0900</registerDate>
    <deleteDate></deleteDate>
  </tenant>
 <tenants>
</GetTenantsResponse>
```

Appendix A List of Response Status Error Codes(L-Platform APIs)

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.
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.

Error code	Description
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.

Appendix B List of Response Status Error Codes(Accounting APIs)

This appendix explains the response status error codes for the accounting APIs.

The following table lists the error codes displayed in the <responseStatus> tags in the responses to accounting API requests:

Error code	Description
PARAMETER_ERROR	A parameter error.
REQUEST_ERROR	A request error.
AUTHENTICATION_ERROR	An authentication error has occurred.
ALREADY_EXISTS	The data already exists.
NOT_FOUND	The data does not exist.
SYSTEM_ERROR	A system error.

Glossary

access path

A logical path configured to enable access to storage volumes from servers.

active mode

The state where a managed server is performing operations.
Managed servers must be in active mode in order to use Auto-Recovery.
Move managed servers to maintenance mode in order to perform backup or restoration of system images, or collection or deployment of cloning images.

active server

A physical server that is currently operating.

admin client

A terminal (PC) connected to an admin server, which is used to operate the GUI.

admin LAN

A LAN used to manage resources from admin servers.
It connects managed servers, storage, and network devices.

admin server

A server used to operate the manager software of Resource Orchestrator.

affinity group

A grouping of the storage volumes allocated to servers. A function of ETERNUS.

Equivalent to the LUN mapping of EMC.

agent

The section (program) of Resource Orchestrator that operates on managed servers.

aggregate

A unit for managing storage created through the aggregation of a RAID group.

Aggregates can contain multiple FlexVols.

alias name

A name set for each ETERNUS LUN to distinguish the different ETERNUS LUNs.

Auto Deploy

A function for deploying VMware ESXi 5.0 to servers using the PXE boot mechanism.

Automatic Storage Layering

A function that optimizes performance and cost by automatically rearranging data in storage units based on the frequency of access.

Auto-Recovery

A function which continues operations by automatically switching over the system image of a failed server to a spare server and restarting it in the event of server failure.
This function can be used when managed servers are in a local boot configuration, SAN boot configuration, or a configuration such as iSCSI boot where booting is performed from a disk on a network.

- When using a local boot configuration

    The system is recovered by restoring a backup of the system image of the failed server onto a spare server.

- When booting from a SAN or a disk on a LAN

    The system is restored by having the spare server inherit the system image on the storage.
    Also, when a VLAN is set for the public LAN of a managed server, the VLAN settings of adjacent LAN switches are automatically switched to those of the spare server.

backup site

An environment prepared in a different location, which is used for data recovery.

BACS (Broadcom Advanced Control Suite)

An integrated GUI application (comprised from applications such as BASP) that creates teams from multiple NICs, and provides functions such as load balancing.

Basic Mode

A function that can be used by configuring a Cloud Edition license after installing ROR VE.

BASP (Broadcom Advanced Server Program)

LAN redundancy software that creates teams of multiple NICs, and provides functions such as load balancing and failover.

blade server

A compact server device with a thin chassis that can contain multiple server blades, and has low power consumption.
As well as server blades, LAN switch blades, management blades, and other components used by multiple server blades can be mounted inside the chassis.

blade type

A server blade type.
Used to distinguish the number of server slots used and servers located in different positions.

BladeViewer

A GUI that displays the status of blade servers in a style similar to a physical view and enables intuitive operation.
BladeViewer can also be used for state monitoring and operation of resources.

BMC (Baseboard Management Controller)

A Remote Management Controller used for remote operation of servers.

boot agent

An OS for disk access that is distributed from the manager to managed servers in order to boot them when the network is started during image operations.

CA (Channel Adapter)

An adapter card that is used as the interface for server HBAs and fibre channel switches, and is mounted on storage devices.

CCM (ETERNUS SF AdvancedCopy Manager Copy Control Module)

This is a module that does not require installation of the ETERNUS SF AdvancedCopy Manager agent on the server that is the source of the backup, but rather uses the advanced copy feature of the ETERNUS disk array to make backups.

chassis

A chassis used to house server blades and partitions.
Sometimes referred to as an enclosure.

cloning

Creation of a copy of a system disk.

cloning image

A backup of a system disk, which does not contain server-specific information (system node name, IP address, etc.), made during cloning.
When deploying a cloning image to the system disk of another server, Resource Orchestrator automatically changes server-specific information to that of the target server.

Cloud Edition

The edition which can be used to provide private cloud environments.

data center

A facility that manages client resources (servers, storage, networks, etc.), and provides internet connections and maintenance/operational services.

directory service

A service for updating and viewing the names (and associated attributes) of physical/logical resource names scattered across networks, based on organizational structures and geographical groups using a systematic (tree-shaped structure) management methodology.

disk resource

The unit for resources to connect to an L-Server. An example being a virtual disk provided by LUN or VM management software.

DN (Distinguished Name)

A name defined as a line of an RDN, which contains an entry representing its corresponding object and higher entry.

Domain

A system that is divided into individual systems using partitioning. Also used to indicate a partition.

DR Option

The option that provides the function for remote switchover of servers or storage in order to perform disaster recovery.

Dual-Role Administrators

The administrators with both infrastructure administrator's and tenant administrator's role.

dynamic LUN mirroring

This is a feature whereby a mirror volume is generated at the remote site when a volume is generated at the local site, and copies are maintained by performing REC.

dynamic memory

A function that optimizes physical memory allocation for virtual machines, depending on their execution status on Hyper-V.

end host mode

This is a mode where the uplink port that can communicate with a downlink port is fixed at one, and communication between uplink ports is blocked.

environmental data

Measured data regarding the external environments of servers managed using Resource Orchestrator.
Measured data includes power data collected from power monitoring targets.

ESC (ETERNUS SF Storage Cruiser)

Software that supports stable operation of multi-vendor storage system environments involving SAN, DAS, or NAS. Provides configuration management, relation management, trouble management, and performance management functions to integrate storage related resources such as ETERNUS.

ETERNUS SF AdvancedCopy Manager

This is storage management software that makes highly reliable and rapid backups, restorations and replications using the advanced copy feature of the ETERNUS disk array.

Express

The edition which provides server registration, monitoring, and visualization.

FC switch (Fibre Channel Switch)

A switch that connects Fibre Channel interfaces and storage devices.

Fibre Channel

A method for connecting computers and peripheral devices and transferring data.

Generally used with servers requiring high-availability, to connect computers and storage systems.

Fibre Channel port

The connector for Fibre Channel interfaces.

When using ETERNUS storage, referred to as an FC-CA port, when using NetApp storage, referred to as an FC port, when using EMC CLARiiON, referred to as an SP port, when using EMC Symmetrix DMX or EMC Symmetrix VMAX, referred to as a DIRECTOR port.

fibre channel switch blade

A fibre channel switch mounted in the chassis of a blade server.

FlexVol

A function that uses aggregates to provide virtual volumes.

Volumes can be created in an instant.

FTRP

The pool for physical disks created by Automatic Storage Layering for ETERNUS.
In Resource Orchestrator, FTRPs are used as virtual storage resources on which Thin Provisioning attributes are configured.

FTV

The virtual volumes created by Automatic Storage Layering for ETERNUS.
In Resource Orchestrator, FTVs are used as disk resources on which Thin Provisioning attributes are configured.

global pool

A resource pool that contains resources that can be used by multiple tenants.
It is located in a different location from the tenants.
By configuring a global pool with the attributes of a tenant, it becomes possible for tenant administrators to use the pool.

global zone

The actual OS that is used for a Solaris container.

A Solaris environment that has been installed on a physical server.

GLS (Global Link Services)

Fujitsu network control software that enables high availability networks through the redundancy of network transmission channels.

GSPB (Giga-LAN SAS and PCI_Box Interface Board)

A board which mounts onboard I/O for two partitions and a PCIe (PCI Express) interface for a PCI box.

GUI (Graphical User Interface)

A user interface that displays pictures and icons (pictographic characters), enabling intuitive and easily understandable operation.

HA (High Availability)

The concept of using redundant resources to prevent suspension of system operations due to single problems.

hardware initiator

A controller which issues SCSI commands to request processes.
In iSCSI configurations, NICs fit into this category.

hardware maintenance mode

In the maintenance mode of PRIMEQUEST servers, a state other than Hot System Maintenance.

HBA (Host Bus Adapter)

An adapter for connecting servers and peripheral devices.
Mainly used to refer to the FC HBAs used for connecting storage devices using Fibre Channel technology.

HBA address rename setup service

The service that starts managed servers that use HBA address rename in the event of failure of the admin server.

HBAAR (HBA address rename)

I/O virtualization technology that enables changing of the actual WWN possessed by an HBA.

host affinity

A definition of the server HBA that is set for the CA port of the storage device and the accessible area of storage.
It is a function for association of the Logical Volume inside the storage which is shown to the host (HBA) that also functions as security internal to the storage device.

Hyper-V

Virtualization software from Microsoft Corporation.

Provides a virtualized infrastructure on PC servers, enabling flexible management of operations.

I/O virtualization option

An optional product that is necessary to provide I/O virtualization.
The WWNN address and MAC address provided is guaranteed by Fujitsu Limited to be unique.
Necessary when using HBA address rename.

IBP (Intelligent Blade Panel)

One of operation modes used for PRIMERGY switch blades.
This operation mode can be used for coordination with ServerView Virtual I/O Manager (VIOM), and relations between server blades and switch blades can be easily and safely configured.

ICT governance

A collection of principles and practices that encourage desirable behavior in the use of ICT (Information and Communication Technology) based on an evaluation of the impacts and risks posed in the adoption and application of ICT within an organization or community.

ILOM (Integrated Lights Out Manager)

The name of the Remote Management Controller for SPARC Enterprise T series servers.

image file

A system image or a cloning image. Also a collective term for them both.

infrastructure administrator

A user who manages the resources comprising a data center.
infra_admin is the role that corresponds to the users who manage resources.
Infrastructure administrators manage all of the resources comprising a resource pool (the global pool and local pools), provide tenant administrators with resources, and review applications by tenant users to use resources.

IPMI (Intelligent Platform Management Interface)

IPMI is a set of common interfaces for the hardware that is used to monitor the physical conditions of servers, such as temperature, power voltage, cooling fans, power supply, and chassis.
These functions provide information that enables system management, recovery, and asset management, which in turn leads to reduction of overall TCO.

IQN (iSCSI Qualified Name)

Unique names used for identifying iSCSI initiators and iSCSI targets.

iRMC (integrated Remote Management Controller)

The name of the Remote Management Controller for Fujitsu's PRIMERGY servers.

iSCSI

A standard for using the SCSI protocol over TCP/IP networks.

iSCSI boot

A configuration function that enables the starting and operation of servers via a network.

The OS and applications used to operate servers are stored on iSCSI storage, not the internal disks of servers.

iSCSI storage

Storage that uses an iSCSI connection.

LAG (Link Aggregation Group)

A single logical port created from multiple physical ports using link aggregation.

LAN switch blades

A LAN switch that is mounted in the chassis of a blade server.

LDAP (Lightweight Directory Access Protocol)

A protocol used for accessing Internet standard directories operated using TCP/IP.

LDAP provides functions such as direct searching and viewing of directory services using a web browser.

license

The rights to use specific functions.

Users can use specific functions by purchasing a license for the function and registering it on the manager.

link aggregation

Function used to multiplex multiple ports and use them as a single virtual port.

By using this function, it becomes possible to use a band equal to the total of the bands of all the ports.

Also, if one of the multiplexed ports fails its load can be divided among the other ports, and the overall redundancy of ports improved.

local pool

A resource pool that contains resources that can only be used by a specific tenant.

They are located in tenants.

logical volume

A logical disk that has been divided into multiple partitions.

L-Platform

A resource used for the consolidated operation and management of systems such as multiple-layer systems (Web/AP/DB) comprised of multiple L-Servers, storage, and network devices.

L-Platform template

A template that contains the specifications for servers, storage, network devices, and images that are configured for an L-Platform.

LSB (Logical System Board)

A system board that is allocated a logical number (LSB number) so that it can be recognized from the domain, during domain configuration.

L-Server

A resource defined using the logical specifications (number of CPUs, amount of memory, disk capacity, number of NICs, etc.) of the servers, and storage and network devices connected to those servers.
An abbreviation of Logical Server.

L-Server template

A template that defines the number of CPUs, memory capacity, disk capacity, and other specifications for resources to deploy to an L-Server.

LUN (Logical Unit Number)

A logical unit defined in the channel adapter of a storage unit.

MAC address (Media Access Control address)

A unique identifier that is assigned to Ethernet cards (hardware).

Also referred to as a physical address.

Transmission of data is performed based on this identifier. Described using a combination of the unique identifying numbers managed by/assigned to each maker by the IEEE, and the numbers that each maker assigns to their hardware.

maintenance mode

The state where operations on managed servers are stopped in order to perform maintenance work.
In this state, the backup and restoration of system images and the collection and deployment of cloning images can be performed.
However, when using Auto-Recovery it is necessary to change from this mode to active mode. When in maintenance mode it is not possible to switch over to a spare server if a server fails.

managed server

A collective term referring to a server that is managed as a component of a system.

management blade

A server management unit that has a dedicated CPU and LAN interface, and manages blade servers.
Used for gathering server blade data, failure notification, power control, etc.

Management Board

The PRIMEQUEST system management unit.
Used for gathering information such as failure notification, power control, etc. from chassis.

manager

The section (program) of Resource Orchestrator that operates on admin servers.
It manages and controls resources registered with Resource Orchestrator.

master slot

A slot that is recognized as a server when a server that occupies multiple slots is mounted.

member server

A collective term that refers to a server in a Windows network domain that is not a domain controller.

migration

The migration of a VM guest to a different VM host. The following two types of migration are available:

- Cold migration

  Migration of an inactive (powered-off) VM guest.

- Live migration

  Migration of an active (powered-on) VM guest.

multi-slot server

A server that occupies multiple slots.

NAS (Network Attached Storage)

A collective term for storage that is directly connected to a LAN.

network device

The unit used for registration of network devices.
L2 switches and firewalls fit into this category.

network map

A GUI function for graphically displaying the connection relationships of the servers and LAN switches that compose a network.

network view

A window that displays the connection relationships and status of the wiring of a network map.

NFS (Network File System)

A system that enables the sharing of files over a network in Linux environments.

NIC (Network Interface Card)

An interface used to connect a server to a network.

non-global zone

A virtual machine environment that has been prepared in a global zone. Its OS kernel is shared with the global zone. Non-global zones are completely separate from each other.

OS

The OS used by an operating server (a physical OS or VM guest).

overcommit

A function to virtually allocate more resources than the actual amount of resources (CPUs and memory) of a server.
This function is used to enable allocation of more disk resources than are mounted in the target server.

PDU (Power Distribution Unit)

A device for distributing power (such as a power strip).
Resource Orchestrator uses PDUs with current value display functions as Power monitoring devices.

physical LAN segment

A physical LAN that servers are connected to.
Servers are connected to multiple physical LAN segments that are divided based on their purpose (public LANs, backup LANs, etc.).
Physical LAN segments can be divided into multiple network segments using VLAN technology.

physical network adapter

An adapter, such as a LAN, to connect physical servers or VM hosts to a network.

physical OS

An OS that operates directly on a physical server without the use of server virtualization software.

physical server

The same as a "server". Used when it is necessary to distinguish actual servers from virtual servers.

pin-group

This is a group, set with the end host mode, that has at least one uplink port and at least one downlink port.

Pool Master

On Citrix XenServer, it indicates one VM host belonging to a Resource Pool.
It handles setting changes and information collection for the Resource Pool, and also performs operation of the Resource Pool.
For details, refer to the Citrix XenServer manual.

port backup

A function for LAN switches which is also referred to as backup port.

port VLAN

A VLAN in which the ports of a LAN switch are grouped, and each LAN group is treated as a separate LAN.

port zoning

The division of ports of fibre channel switches into zones, and setting of access restrictions between different zones.

power monitoring devices

Devices used by Resource Orchestrator to monitor the amount of power consumed.
PDUs and UPSs with current value display functions fit into this category.

power monitoring targets

Devices from which Resource Orchestrator can collect power consumption data.

pre-configuration

Performing environment configuration for Resource Orchestrator on another separate system.

primary server

The physical server that is switched from when performing server switchover.

primary site

The environment that is usually used by Resource Orchestrator.

private cloud

A private form of cloud computing that provides ICT services exclusively within a corporation or organization.

public LAN

A LAN used for operations by managed servers.
Public LANs are established separately from admin LANs.

rack

A case designed to accommodate equipment such as servers.

rack mount server

A server designed to be mounted in a rack.

RAID (Redundant Arrays of Inexpensive Disks)

Technology that realizes high-speed and highly-reliable storage systems using multiple hard disks.

RAID management tool

Software that monitors disk arrays mounted on PRIMERGY servers.
The RAID management tool differs depending on the model or the OS of PRIMERGY servers.

RDM (Raw Device Mapping)

A function of VMware. This function provides direct access from a VMware virtual machine to a LUN.

RDN (Relative Distinguished Name)

A name used to identify the lower entities of a higher entry.

Each RDN must be unique within the same entry.

Remote Management Controller

A unit used for managing servers.
Used for gathering server data, failure notification, power control, etc.

- For Fujitsu PRIMERGY servers

    iRMC2

- For SPARC Enterprise

    ILOM (T series servers)
    XSCF (M series servers)

- For HP servers

  iLO2 (integrated Lights-Out)

- For Dell/IBM servers

  BMC (Baseboard Management Controller)

Remote Server Management

A PRIMEQUEST feature for managing partitions.

Reserved SB

Indicates the new system board that will be embedded to replace a failed system board if the hardware of a system board embedded in a partition fails and it is necessary to disconnect the failed system board.

resource

General term referring to the logical definition of the hardware (such as servers, storage, and network devices) and software that comprise a system.

resource folder

An arbitrary group of resources.

resource pool

A unit for management of groups of similar resources, such as servers, storage, and network devices.

resource tree

A tree that displays the relationships between the hardware of a server and the OS operating on it using hierarchies.

role

A collection of operations that can be performed.

ROR console

The GUI that enables operation of all functions of Resource Orchestrator.

ruleset

A collection of script lists for performing configuration of network devices, configured as combinations of rules based on the network device, the purpose, and the application.

SAN (Storage Area Network)

A specialized network for connecting servers and storage.

SAN boot

A configuration function that enables the starting and operation of servers via a SAN.

The OS and applications used to operate servers are stored on SAN storage, not the internal disks of servers.

SAN storage

Storage that uses a Fibre Channel connection.

script list

Lists of scripts for the automation of operations such as status and log display, and definition configuration of network devices.
Used to execute multiple scripts in one operation. The scripts listed in a script list are executed in the order that they are listed.
As with individual scripts, they can are created by the infrastructure administrator, and can be customized to meet the needs of tenant administrators.

They are used to configure virtual networks for VLANs on physical networks, in cases where it is necessary to perform auto-configuration of multiple switches at the same time, or to configure the same rules for network devices in redundant configurations. The script lists contain the scripts used to perform automatic configuration.
There are the following eight types of script lists:

- script lists for setup

- script lists for setup error recovery

- script lists for modification

- script lists for modification error recovery

- script lists for setup (physical server added)

- script lists for setup error recovery (physical server added)

- script lists for deletion (physical server deleted)

- script lists for deletion

server

A computer (operated with one operating system).

server blade

A server blade has the functions of a server integrated into one board.
They are mounted in blade servers.

server management unit

A unit used for managing servers.
A management blade is used for blade servers, and a Remote Management Controller is used for other servers.

server name

The name allocated to a server.

server NIC definition

A definition that describes the method of use for each server's NIC.
For the NICs on a server, it defines which physical LAN segment to connect to.

server virtualization software

Basic software which is operated on a server to enable use of virtual machines. Used to indicate the basic software that operates on a PC server.

ServerView Deployment Manager

Software used to collect and deploy server resources over a network.

ServerView Operations Manager

Software that monitors a server's (PRIMERGY) hardware state, and notifies of errors by way of the network.
ServerView Operations Manager was previously known as ServerView Console.

ServerView RAID

One of the RAID management tools for PRIMERGY.

ServerView Update Manager

This is software that performs jobs such as remote updates of BIOS, firmware, drivers, and hardware monitoring software on servers being managed by ServerView Operations Manager.

ServerView Update Manager Express

Insert the ServerView Suite DVD1 or ServerView Suite Update DVD into the server requiring updating and start it.

This is software that performs batch updates of BIOS, firmware, drivers, and hardware monitoring software.

Single Sign-On

A system among external software which can be used without login operations, after authentication is executed once.

slave slot

A slot that is not recognized as a server when a server that occupies multiple slots is mounted.

SMB (Server Message Block)

A protocol that enables the sharing of files and printers over a network.

SNMP (Simple Network Management Protocol)

A communications protocol to manage (monitor and control) the equipment that is attached to a network.

software initiator

An initiator processed by software using OS functions.

Solaris container resource pool

The Solaris Containers resource pool used in the global zone and the non-global zone.

Solaris Containers

Solaris server virtualization software.
On Solaris servers, it is possible to configure multiple virtual Solaris servers that are referred to as a Solaris Zone.

Solaris Zone

A software partition that virtually divides a Solaris OS space.

SPARC Enterprise Partition Model

A SPARC Enterprise model which has a partitioning function to enable multiple system configurations, separating a server into multiple areas with operating OS's and applications in each area.

spare server

A server which is used to replace a failed server when server switchover is performed.

storage blade

A blade-style storage device that can be mounted in the chassis of a blade server.

storage management software

Software for managing storage units.

storage resource

Collective term that refers to virtual storage resources and disk resources.

storage unit

Used to indicate the entire secondary storage as one product.

surrogate pair

A method for expressing one character as 32 bits.
In the UTF-16 character code, 0xD800 - 0xDBFF are referred to as "high surrogates", and 0xDC00 - 0xDFFF are referred to as "low surrogates". Surrogate pairs use "high surrogate" + "low surrogate".

switchover state

The state in which switchover has been performed on a managed server, but neither failback nor continuation have been performed.

system administrator

The administrator who manages the entire system. They perform pre-configuration and installation of Resource Orchestrator.

Administrator privileges for the operating system are required. Normally the roles of the infrastructure administrator and system administrator are performed concurrently.

System Board

A board which can mount up to 2 Xeon CPUs and 32 DIMMs.

system disk

The disk on which the programs (such as the OS) and files necessary for the basic functions of servers (including booting) are installed.

system image

A copy of the contents of a system disk made as a backup.
Different from a cloning image as changes are not made to the server-specific information contained on system disks.

tenant

A unit for the division and segregation of management and operation of resources based on organizations or operations.

tenant administrator

A user who manages the resources allocated to a tenant.
tenant_admin is the role for performing management of resources allocated to a tenant.
Tenant administrators manage the available space on resources in the local pools of tenants, and approve or reject applications by tenant users to use resources.

tenant folder

A resource folder that is created for each tenant, and is used to manage the resources allocated to a tenant.

L-Servers and local pools are located in tenant folders. Also, it is possible to configure a global pool that tenant administrators can use.

tenant user

A user who uses the resources of a tenant, or creates and manages L-Platforms, or a role with the same purpose.

Thick Provisioning

Allocation of the actual requested capacity when allocating storage resources.

Thin Provisioning

Allocating of only the capacity actually used when allocating storage resources.

tower server

A standalone server with a vertical chassis.

TPP (Thin Provisioning Pool)

One of resources defined using ETERNUS. Thin Provisioning Pools are the resource pools of physical disks created using Thin Provisioning.

TPV (Thin Provisioning Volume)

One of resources defined using ETERNUS. Thin Provisioning Volumes are physical disks created using the Thin Provisioning function.

UNC (Universal Naming Convention)

Notational system for Windows networks (Microsoft networks) that enables specification of shared resources (folders, files, shared printers, shared directories, etc.).

📘 Example

. . . .

\\hostname\dir_name

. . . .

UPS (Uninterruptible Power Supply)

A device containing rechargeable batteries that temporarily provides power to computers and peripheral devices in the event of power failures.
Resource Orchestrator uses UPSs with current value display functions as power monitoring devices.

URL (Uniform Resource Locator)

The notational method used for indicating the location of information on the Internet.

VIOM (ServerView Virtual-IO Manager)

The name of both the I/O virtualization technology used to change the MAC addresses of NICs and the software that performs the virtualization.
Changes to values of WWNs and MAC addresses can be performed by creating a logical definition of a server, called a server profile, and assigning it to a server.

Virtual Edition

The edition that can use the server switchover function.

Virtual I/O

Technology that virtualizes the relationship of servers and I/O devices (mainly storage and network) thereby simplifying the allocation of and modifications to I/O resources to servers, and server maintenance.
For Resource Orchestrator it is used to indicate HBA address rename and ServerView Virtual-IO Manager (VIOM).

virtual server

A virtual server that is operated on a VM host using a virtual machine.

virtual storage resource

This refers to a resource that can dynamically create a disk resource.
An example being RAID groups or logical storage that is managed by server virtualization software (such as VMware datastores).
In Resource Orchestrator, disk resources can be dynamically created from ETERNUS RAID groups, NetApp aggregates, and logical storage managed by server virtualization software.

virtual switch

A function provided by server virtualization software to manage networks of VM guests as virtual LAN switches.
The relationships between the virtual NICs of VM guests and the NICs of the physical servers used to operate VM hosts can be managed using operations similar to those of the wiring of normal LAN switches.

A function provided by server virtualization software in order to manage L-Server (VM) networks as virtual LAN switches.
Management of relationships between virtual L-Server NICs, and physical server NICs operating on VM hosts, can be performed using an operation similar to the connection of a normal LAN switch.

VLAN (Virtual LAN)

A splitting function, which enables the creation of virtual LANs (seen as differing logically by software) by grouping ports on a LAN switch.
Using a Virtual LAN, network configuration can be performed freely without the need for modification of the physical network configuration.

VLAN ID

A number (between 1 and 4,095) used to identify VLANs.
Null values are reserved for priority tagged frames, and 4,096 (FFF in hexadecimal) is reserved for mounting.

VM (Virtual Machine)

A virtual computer that operates on a VM host.

VM guest

A virtual server that operates on a VM host, or an OS that is operated on a virtual machine.

VM Home Position

The VM host that is home to VM guests.

VM host

A server on which server virtualization software is operated, or the server virtualization software itself.

VM maintenance mode

One of the settings of server virtualization software, that enables maintenance of VM hosts.
For example, when using high availability functions (such as VMware HA) of server virtualization software, by setting VM maintenance mode it is possible to prevent the moving of VM guests on VM hosts undergoing maintenance.
For details, refer to the manuals of the server virtualization software being used.

VM management software

Software for managing multiple VM hosts and the VM guests that operate on them.
Provides value adding functions such as movement between the servers of VM guests (migration).

VMware

Virtualization software from VMware Inc.
Provides a virtualized infrastructure on PC servers, enabling flexible management of operations.

VMware DPM (VMware Distributed Power Management)

A function of VMware. This function is used to reduce power consumption by automating power management of servers in VMware DRS clusters.

VMware DRS (VMware Distributed Resource Scheduler)

A function of VMware. This function is used to monitor the load conditions on an entire virtual environment and optimize the load dynamically.

VMware Teaming

A function of VMware. By using VMware Teaming it is possible to perform redundancy by connecting a single virtual switch to multiple physical network adapters.

Web browser

A software application that is used to view Web pages.

WWN (World Wide Name)

A 64-bit address allocated to an HBA.
Refers to a WWNN or a WWPN.

WWNN (World Wide Node Name)

A name that is set as a common value for the Fibre Channel ports of a node. However, the definitions of nodes vary between manufacturers, and may also indicate devices or adapters. Also referred to as a node WWN.

WWPN (World Wide Port Name)

A name that is a unique value and is set for each Fibre Channel port (HBA, CA, fibre channel switch ports, etc.), and is the IEEE global MAC address.

As the Fibre Channel ports of the same WWPN are unique, they are used as identifiers during Fibre Channel port login. Also referred to as a port WWN.

WWPN zoning

The division of ports into zones based on their WWPN, and setting of access restrictions between different zones.

Xen

A type of server virtualization software.

XSB (eXtended System Board)

Unit for domain creation and display, composed of physical components.

XSCF (eXtended System Control Facility)

The name of the Remote Management Controller for SPARC Enterprise M series servers.

zoning

A function that provides security for Fibre Channels by grouping the Fibre Channel ports of a Fibre Channel switch into zones, and only allowing access to ports inside the same zone.