

# ServerView Resource Orchestrator Cloud Edition V3.1.1

## Reference Guide (API)

Windows/Linux

J2X1-7617-05ENZ0(03)  
August 2013

# Preface

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## Purpose

This manual explains the API available in ServerView Resource Orchestrator Cloud Edition (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:

### Chapter 1 Outline

Explains an overview of the APIs available in Resource Orchestrator.

### Chapter 2 L-Platform API Reference

Explains L-Platform APIs.

### Chapter 3 Reference for the Accounting API

Explains accounting APIs

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

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

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

Explains List of Response Status Error Codes of accounting APIs.

## Document Conventions

The notation in this manual conforms to the following conventions.

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

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

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

[Windows Manager]	Sections related to Windows manager
[Linux Manager]	Sections related to Linux manager
[Windows]	Sections related to Windows
[Linux]	Sections related to Linux
[Solaris]	Sections related to Solaris
[VMware]	Sections related to VMware
[Hyper-V]	Sections related to Hyper-V
[Xen]	Sections related to RHEL5-Xen
[KVM]	Sections related to RHEL-KVM
[Solaris Zones]	Sections related to Solaris zones

[OVM for x86 2.2]	Sections related to Oracle VM Server for x86 2.2
[OVM for x86 3.2]	Sections related to Oracle VM Server for x86 3.2
[OVM for SPARC]	Sections related to Oracle VM Server for SPARC
[Citrix Xen]	Sections related to Citrix XenServer
[Physical Servers]	Sections related to physical servers

- Unless specified otherwise, the blade servers mentioned in this manual refer to PRIMERGY BX servers.
- Oracle Solaris may also be indicated as Solaris, Solaris Operating System, or Solaris OS.
- Oracle Solaris Zones may also be indicated as Solaris Containers or Solaris Container.
- Oracle VM Server for x86 may also be indicated as Oracle VM.
- In Resource Orchestrator the following servers are referred to as SPARC Enterprise.
  - SPARC Enterprise M3000/M4000/M5000/M8000/M9000
  - SPARC Enterprise T5120/T5140/T5220/T5240/T5440
- In Resource Orchestrator the following servers are referred to as Fujitsu M10.
  - FUJITSU M10-1/M10-4/M10-4S
- Fujitsu M10 is sold as SPARC M10 by Fujitsu in Japan. Fujitsu M10 and SPARC M10 are identical products.
- References and character strings or values requiring emphasis are indicated using double quotes ( " ).
- Window names, dialog names, menu names, and tab names are shown enclosed by brackets ( [ ] ).
- Button names are shown enclosed by angle brackets (< >) or square brackets ( [ ] ).
- The order of selecting menus is indicated using [ ]-[ ] .
- Text to be entered by the user is indicated using bold text.
- Variables are indicated using italic text and underscores.
- The ellipses ("...") in menu names, indicating settings and operation window startup, are not shown.
- The ">" used in Windows is included in usage examples. When using Linux, read ">" as meaning "#".
- If using Windows 8 or Windows Server 2012, please note the following:  
Operations descriptions in this manual use examples assuming operating systems up to Windows 7 and Windows Server 2008 - if using this product with Windows 8 or Windows Server 2012, read instructions regarding the [Start] menu as if they were instructions for the [Apps] page.  
Display the [Apps] page by right-clicking in the [Start] screen, and then clicking on [All apps].

## Menus in the ROR Console

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

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

## Regarding Installation Folder Paths

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

Replace it as shown below.

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

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

## Command Examples

The paths used in command examples are abbreviated. When executing commands, do so using the path given in "Name".

## Web Site URLs

URLs provided as reference sources within the main text are correct as of August 2013.

Please understand that they are subject to change without notice.

## Abbreviations

The following abbreviations are used in this manual:

Abbreviation	Products
Windows	Microsoft(R) Windows Server(R) 2003 R2, Standard Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition Microsoft(R) Windows Server(R) 2008 Standard Microsoft(R) Windows Server(R) 2008 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Datacenter Microsoft(R) Windows Server(R) 2012 Standard Microsoft(R) Windows Server(R) 2012 Datacenter Microsoft(R) Windows(R) XP Professional operating system Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate Windows(R) 7 Professional Windows(R) 7 Ultimate Windows(R) 8 Pro Windows(R) 8 Enterprise
Windows Server 2003	Microsoft(R) Windows Server(R) 2003 R2, Standard Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition
Windows 2003 x64 Edition	Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition
Windows Server 2008	Microsoft(R) Windows Server(R) 2008 Standard Microsoft(R) Windows Server(R) 2008 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Datacenter
Windows 2008 x86 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x86) Microsoft(R) Windows Server(R) 2008 Enterprise (x86)
Windows 2008 x64 Edition	Microsoft(R) Windows Server(R) 2008 Standard (x64) Microsoft(R) Windows Server(R) 2008 Enterprise (x64)

Abbreviation	Products
Windows Server 2012	Microsoft(R) Windows Server(R) 2012 Standard Microsoft(R) Windows Server(R) 2012 Datacenter
Windows PE	Microsoft(R) Windows(R) Preinstallation Environment
Windows XP	Microsoft(R) Windows(R) XP Professional operating system
Windows Vista	Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate
Windows 7	Windows(R) 7 Professional Windows(R) 7 Ultimate
Windows 8	Windows(R) 8 Pro Windows(R) 8 Enterprise
Linux	Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.1 (for x86) Red Hat(R) Enterprise Linux(R) 5.1 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.2 (for x86) Red Hat(R) Enterprise Linux(R) 5.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.3 (for x86) Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.8 (for x86) Red Hat(R) Enterprise Linux(R) 5.8 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) 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)

Abbreviation	Products
	Red Hat(R) Enterprise Linux(R) 5.8 (for x86) Red Hat(R) Enterprise Linux(R) 5.8 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)
Red Hat Enterprise Linux 5	Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.1 (for x86) Red Hat(R) Enterprise Linux(R) 5.1 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.2 (for x86) Red Hat(R) Enterprise Linux(R) 5.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.3 (for x86) Red Hat(R) Enterprise Linux(R) 5.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.5 (for x86) Red Hat(R) Enterprise Linux(R) 5.5 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.6 (for x86) Red Hat(R) Enterprise Linux(R) 5.6 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.7 (for x86) Red Hat(R) Enterprise Linux(R) 5.7 (for Intel64) Red Hat(R) Enterprise Linux(R) 5.8 (for x86) Red Hat(R) Enterprise Linux(R) 5.8 (for Intel64)
Red Hat Enterprise Linux 6	Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)
RHEL5-Xen	Red Hat(R) Enterprise Linux(R) 5.4 (for x86) Linux Virtual Machine Function Red Hat(R) Enterprise Linux(R) 5.4 (for Intel64) Linux Virtual Machine Function
RHEL-KVM	Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Virtual Machine Function Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) Virtual Machine Function
DOS	Microsoft(R) MS-DOS(R) operating system, DR DOS(R)
SUSE Linux Enterprise Server	SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T
OVM for x86 2.2	Oracle(R) VM Server for x86 2.2
OVM for x86 3.2	Oracle(R) VM Server for x86 3.2
OVM for SPARC	Oracle(R) VM Server for SPARC
Oracle VM Manager	Oracle(R) VM Manager
Citrix XenServer	Citrix XenServer(R) 6.0 Citrix XenServer(R) 6.0.2 Citrix XenServer(R) 6.1.0
ESC	ETERNUS SF Storage Cruiser

Abbreviation	Products
GLS	PRIMECLUSTER GLS
Navisphere	EMC Navisphere Manager
Solutions Enabler	EMC Solutions Enabler
MSFC	Microsoft Failover Cluster
Solaris	Oracle Solaris10 05/09 (Update7) Media Pack Oracle Solaris11 11/11 Media Pack Oracle Solaris11.1 Media Pack
SCVMM	System Center Virtual Machine Manager 2008 R2 System Center 2012 Virtual Machine Manager
VMware	VMware vSphere(R) 4 VMware vSphere(R) 4.1 VMware vSphere(R) 5 VMware vSphere(R) 5.1
VMware ESX	VMware(R) ESX(R)
VMware ESX 4	VMware(R) ESX(R) 4
VMware ESXi	VMware(R) ESXi(TM)
VMware ESXi 5.0	VMware(R) ESXi(TM) 5.0
VMware ESXi 5.1	VMware(R) ESXi(TM) 5.1
VMware Tools	VMware(R) Tools
VMware vSphere 4.0	VMware vSphere(R) 4.0
VMware vSphere 4.1	VMware vSphere(R) 4.1
VMware vSphere 5	VMware vSphere(R) 5
VMware vSphere 5.1	VMware vSphere(R) 5.1
VMware vSphere 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
BladeLogic	BMC BladeLogic Server Automation
Internet Explorer	Windows(R) Internet Explorer(R) 8 Windows(R) Internet Explorer(R) 9 Windows(R) Internet Explorer(R) 10
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

Abbreviation	Products
ROR CE	ServerView Resource Orchestrator Cloud Edition
Resource Coordinator	Systemwalker Resource Coordinator Systemwalker Resource Coordinator Virtual server Edition

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# Contents

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Chapter 1 Outline.....	1
1.1 Objective.....	1
1.2 Output Logs.....	1
1.3 Configuration File.....	1
1.4 Authentication.....	2
1.5 API Format.....	2
1.6 HTTP Requests for APIs.....	2
1.6.1 HTTP Requests for L-Platform APIs.....	2
1.6.2 HTTP Requests for Accounting APIs.....	3
1.7 Configuration of APIs.....	3
1.7.1 Configuration of L-Platform APIs.....	3
1.7.2 Configuration of Accounting APIs.....	5
1.8 Explanatory Format for APIs.....	5
1.8.1 Explanatory Format for L-Platform APIs.....	6
1.8.2 Explanatory Format for Accounting APIs.....	7
Chapter 2 L-Platform API Reference.....	9
2.1 Operations on L-Platform Templates.....	9
2.1.1 ListLPlatformDescriptor (Gets a List of Templates).....	9
2.1.2 ListDiskImage (Gets a List of Cloning Images).....	11
2.1.3 ListServerType (Gets a List of L-Server Templates).....	17
2.1.4 GetLPlatformDescriptorConfiguration (Gets Template Configuration Information).....	24
2.1.5 GetLPlatformDescriptorAttributes (Gets Template Attributes).....	41
2.1.6 GetPoolList (Gets a List of Resource Pools).....	43
2.1.7 ListNetworkResource (Obtain a List of Network Resources).....	50
2.1.8 ListFirewallRuleset (Obtain a List of Firewall Rulesets).....	55
2.1.9 ListSLBRuleset (Obtain a List of Server Load Balancer Rulesets).....	58
2.1.10 GetRulesetConfiguration (Obtain the Configuration Information for the Ruleset).....	61
2.2 Operations on L-Platform Systems.....	68
2.2.1 CreateLPlatform (Creates an L-Platform).....	68
2.2.2 ListLPlatform (Gets a List of L-Platform).....	70
2.2.3 MoveLPlatform (Changes the Organization that Owns an L-Platform).....	99
2.2.4 DestroyLPlatform (Returns an L-Platform).....	100
2.2.5 GetLPlatformStatus (Gets the Status of an L-Platform).....	102
2.2.6 GetLPlatformConfiguration (Gets Configuration Information for an L-Platform).....	104
2.2.7 GetLPlatformAttributes (Gets the Attributes of an L-Platform).....	125
2.2.8 ListNetworkInfo (Gets Network Information for an L-Platform).....	127
2.2.9 StartLPlatform (Performs Batch Power-On for Servers Included in an L-Platform).....	132
2.2.10 StopLPlatform (Performs Batch Power-Off for Servers Included in an L-Platform).....	133
2.2.11 StartTenantLServers(Performs Batch Power-On for Servers Included in a Tenant).....	135
2.2.12 StopTenantLServers (Performs Batch Power-Off for Servers Included in a Tenant).....	136
2.2.13 CreateNetwork (Add Network Segment to L-Platform).....	138
2.2.14 DestroyNetwork (Delete a Specified Network Segment from an L-Platform).....	140
2.2.15 UpdateFirewallConfiguration(Modify Firewall Configuration).....	142
2.2.16 UpdateSLBConfiguration(Modify Server Load Balancer Configuration).....	144
2.2.17 OperateSLB(Operate Server Load Balancer).....	146
2.2.18 GetOperationResult (Obtain Operation Log).....	149
2.3 Operations on Server.....	150
2.3.1 CreateLServer (Creates a New Server).....	151
2.3.2 ListLServer (Gets a List of Servers in an L-Platform).....	155
2.3.3 DestroyLServer (Deletes Server).....	159
2.3.4 RestoreLServer (Restores a Server from a Snapshot).....	161
2.3.5 StartLServer (Starts a Server).....	163
2.3.6 StopLServer (Stops a Server).....	164
2.3.7 GetLServerStatus (Gets the Status of a Server).....	166

2.3.8 GetLServerConfiguration (Gets Configuration Information for a Server).....	168
2.3.9 GetLServerAttributes (Gets the Attributes of a Server).....	181
2.3.10 GetLServerInitialPassword (Gets the Password for the Initial Administrator for the Operating System of a Server).....	185
2.3.11 UpdateLServerConfiguration (Changes the Performance of a Server).....	187
2.3.12 CreateImage (Collects the Cloning Image of a Server).....	190
2.3.13 CreateSnapshot (Takes a Snapshot).....	192
2.3.14 ListSnapshot (Gets a List of Snapshots).....	194
2.3.15 DestroySnapshot (Deletes Snapshots).....	196
2.3.16 GetSnapshotHistory (Gets a History of Snapshots and Restorations).....	198
2.3.17 AddPatch (Adds Patch Information).....	200
2.3.18 DestroyPatch (Deletes Patch Information).....	202
2.3.19 CancelError (Cancels the Error Status of a Backup or Restoration Task).....	204
2.3.20 CreateNic (Add NIC to Server).....	206
2.3.21 DestroyNic (Delete Specified NIC from Server).....	208
2.3.22 ExpandSysvolSize (Increase the Size of System Volume).....	210
2.4 Operations on Additional Disks.....	211
2.4.1 CreateDisk (Adds Additional Disks).....	212
2.4.2 DestroyDisk (Deletes Additional Disks).....	214
2.4.3 ListDisk (Gets a List of Existing Disks).....	215
2.4.4 AttachDisk (Attaches an Existing Disk).....	218
2.4.5 DetachDisk (Detaches an Existing Disk).....	220
Chapter 3 Reference for the Accounting API.....	223
3.1 Resource Usage Operations.....	223
3.1.1 GetResourceUsage (Get Resource Usage).....	223
3.1.1.1 List of Events.....	230
3.2 Usage Point Operations.....	231
3.2.1 GetUsagePoint (Get Usage Point).....	231
3.2.2 RegisterUsagePoint (Register Usage Point).....	237
3.3 Daily Usage Charge Operations.....	243
3.3.1 GetDailyCharge (Get Daily Usage Charges).....	243
3.3.2 RegisterDailyCharge (Register Daily Usage Charges).....	250
3.4 Monthly Usage Charge Operations.....	256
3.4.1 GetMonthlyCharge (Get Monthly Usage Charges).....	256
3.4.2 RegisterMonthlyCharge (Register Monthly Usage Charges).....	263
3.5 Tenant Operations.....	269
3.5.1 GetTenants (Get a List of Tenant Information).....	269
Appendix A List of Response Status Error Codes(L-Platform APIs).....	273
Appendix B List of Response Status Error Codes(Accounting APIs).....	275

# 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.

Refer to "[1.6 HTTP Requests for APIs](#)" for details.

## 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 or POST methods. For the port number, specify the value that was specified when installing. The default value is "8014". 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
```

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

With CLI that call the POST method, specify the path of the file where the XML set in the <BODY> in the -xml parameter is saved.

However, operation may not be correct if there is a BOM in the file.

#### HTTP header

Specify information for basic authentication in the HTTP header.

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

Specify the user ID and password of the user who executes the L-Platform API.

Although the tenant name and the user ID are specified using L-Platform API arguments, ensure you use the user ID specified during basic authentication.

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



#### Example

```
Authorization:Basic Y2ZtZ2FwaXVzZXI6Y2ZtZ2FwaXVzZXI=
```

Ensure you specify content-type headers.

Use "application/xml" unless otherwise specified in the description of each API.

## 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)
```

Refer to "Chapter 14 L-Platform API Related Operations" in the "Reference Guide (Command/XML) CE" for information on the each command.

## 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. For the port number, specify the value that was specified when installing - the default value is "8015". 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>
```

For userId and password, specify the user ID and password of the user who executes the accounting API.

Ensure you specify content-type headers.

Use "application/xml" unless otherwise specified in the description of each API.

## 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.
	ListNetworkResource	Gets a list of network resources.
	ListFirewallRuleset	Gets a list of firewall rulesets.
	ListSLBRuleset	Gets a list of the server load balancer rulesets.
	GetRulesetConfiguration	Gets the configuration information for a ruleset.
Operations on L-Platform	CreateLPlatform	Creates an L-Platform.
	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.
	CreateNetwork	Adds a network to an L-Platform.
	DestroyNetwork	Deletes a network from an L-Platform.
	UpdateFirewallConfiguration	Modifies a firewall configuration.
	UpdateSLBConfiguration	Modifies a server load balancer configuration.
	OperateSLB	Executes server load balancer operations.
	GetOperationResult	Gets operation logs.
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.

Category	L-Platform API name	Functional overview
	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	Cancel the error status of a backup or restoration task.
	CreateNic	Adds an NIC to a server.
	DestroyNic	Deletes an NIC from a server.
	ExpandSysvolSize	Increase the size of system volume.
Operations on additional disks	CreateDisk	Adds additional disks.
	DestroyDisk	Deletes additional disks.
	ListDisk	Gets a list of existing disks.
	AttachDisk	Attaches an extended disk.
	DetachDisk	Detaches an extended disk.

## 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 (*)	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.

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

### Request body

The following explains the body to be set in L-Platform API requests.

<XML>

This explains XML format request bodies.

<Parameter>

This table provides an explanation for each of the parameters:

Parameter name	Item	Item description
Request parameter name (*)	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.

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

### 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.



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 (*)	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.

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

### Request body

This section explains accounting API request bodies.

<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.

#### Response

<Status code>

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

<XML>

```

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

```

<Elements>

Element name	Item	Item description
ListLPlatformDescriptorResponse	Description	Element holding the response information.
	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
lplatformdescriptors	Description	Element holding the response information for the L-Platform template list.
	Type	None
	Number of occurrences	0 or 1
lplatformdescriptor	Description	Set of L-Platform template information.
	Type	None
	Number of occurrences	0 or more
creatorName	Description	The tenant name of the person who created the L-Platform template.
	Type	ASCII string
	Number of occurrences	As many as there are lplatformdescriptor elements (0 or 1 element for each lplatformdescriptor element).
description	Description	Description of the L-Platform template.
	Type	UTF-8 string

Element name	Item	Item description
	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 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".

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 "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.

## 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>
      <maxSysvolSize>[Maximum capacity of system disk]</maxSysvolSize>
      <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>
        </software>
      </softwares>
    </diskimage>
  </diskimages>
</ListDiskImageResponse>
```

```

    <version>[Version]</version>
    <officialVersion>[Official version]</officialVersion>
    <patch>[Patch version number]</patch>
    <support>[Support]</support>
  </software>
</softwares>
<patches>
  <patch>
    <softwareId>[Software ID]</softwareId>
    <patchId>[Patch ID]</patchId>
    <componentName>[Component name]</componentName>
    <description>[Patch description]</description>
  </patch>
</patches>
</diskimage>
</diskimages>
</ListDiskImageResponse>

```

<Elements>

Element name	Item	Item description
ListDiskImageResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly.  Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
diskimages	Description	Element holding the response information for the disk image information.
	Type	None
	Number of occurrences	0 or 1
diskimage	Description	Set of disk image information.
	Type	None
	Number of occurrences	0 or more
creatorName	Description	The tenant name of the person who created the disk image.
	Type	ASCII string
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
name	Description	Disk image information name.
	Type	ASCII string



Element name	Item	Item description
	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	ASCII string
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
registrant	Description	The ID of the person who registered the disk image.
	Type	ASCII string
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
size	Description	Disk image size. The units are "GB".
	Type	decimal
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
maxCpuPerf	Description	Maximum CPU performance.
	Type	decimal
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
numOfMaxCpu	Description	Maximum number of CPUs.
	Type	int
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
maxMemorySize	Description	Maximum amount of memory.
	Type	decimal
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
numOfMaxDisk	Description	Maximum number of disks.
	Type	int
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
maxDiskSize	Description	Maximum amount of disk space.
	Type	decimal
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
numOfMaxNic	Description	Maximum number of NICs.
	Type	int
	Number of occurrences	As many as there are diskimage elements (0 or 1 element for each diskimage element).
maxSysvolSize	Description	Maximum capacity of system disk.

Element name	Item	Item description
	Type	decimal
	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.
	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).

Element name	Item	Item description
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).
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 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>
      <maxSysvolSize>500.0</maxSysvolSize>
      <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.

Parameter name	Item	Item description
	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.

## 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>
    </servertype>
  </servertypes>
</ListServerTypeResponse>
```

```

<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>
<lserverType>[Server type]</lserverType>
<vmType>[VM type]</vmType>
</servertype>
</servertypes>
</ListServerTypeResponse>

```

<Elements>

Element name	Item	Item description
ListServerTypeResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly.  Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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).

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

Element name	Item	Item description
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
memorySize	Description	Memory size.
	Type	decimal
	Number of occurrences	As many as there are memory elements (0 or 1 element for each memory element).
memoryReserve	Description	Reserved memory capacity.
	Type	decimal
	Number of occurrences	As many as there are memory elements (0 or 1 element for each memory element).
memoryShare	Description	Memory allotment ratio.
	Type	int
	Number of occurrences	As many as there are memory elements (0 or 1 element for each memory element).
name	Description	L-Server template name.
	Type	UTF-8 string
	Number of occurrences	As many as there are servertype elements (0 or 1 element for each servertype element).
nics	Description	Set of NIC information.
	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.



Element name	Item	Item description
	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
	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": RHEL-Xen. - "Hyper-V": Hyper-V - "RHEL-KVM": RHEL-KVM - "Solaris Containers": Solaris Zones
	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>
<lserverType>Virtual</lserverType>
<vmType>VMware</vmType>
</servertype>
<servertype>
  <comment>Comment 2</comment>
  <cpu>
    <cpuArch>IA</cpuArch>
    <cpuPerf>2.0</cpuPerf>
    <cpuReserve>0.5</cpuReserve>
    <cpuShare>10</cpuShare>
    <numOfCpu>2</numOfCpu>
  </cpu>
  <disks>
    <disk>
      <diskIndex>0</diskIndex>
      <diskSize>100</diskSize>
    </disk>
  </disks>
  <id>2</id>
  <label>Label 2</label>
  <memory>
    <memorySize>4</memorySize>
    <memoryReserve>0.5</memoryReserve>
    <memoryShare>1000</memoryShare>
  </memory>
  <name>Middle Spec</name>
  <nics>
    <numOfNIC>10</numOfNIC>
  </nics>
  <serverPolicy>
    <positioning>Fixed</positioning>
    <redundancy>None</redundancy>
    <aliveMonitoring>false</aliveMonitoring>
    <repurpose>true</repurpose>
  </serverPolicy>
  <lserverType>Virtual</lserverType>
  <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>
<lserverType>Virtual</lserverType>
<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.

## Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetLPlatformDescriptorConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <lplatformdescriptor>
    <creatorName>[Tenant name of the person who created the L-Platform template]</creatorName>
    <description>[Description of the L-Platform template]</description>
    <firewalls>
      <firewall>
        <interfaces>
          <interface>
            <name>[Interface name]</name>
            <networkId>[Network ID]</networkId>
          </interface>
        </interfaces>
        <name>[Firewall name]</name>
        <ruleset>
          <description>[Ruleset description]</description>
          <name>[Ruleset name]</name>
          <lplatformModel>[L-Platform model]</lplatformModel>
          <parameters>
            <parameter>
              <description>[Parameter information description]</description>
              <summary>[Parameter summary]</summary>
              <name>[Parameter information name]</name>
              <value>[Parameter value]</value>
              <view>[Parameter display flag]</view>
              <syntax>[Parameter syntax]</syntax>
              <required>[Flag indicating whether value is required]</required>
            </parameter>
          </parameters>
        </ruleset>
      </firewall>
    </firewalls>
    <slbs>
      <slb>
        <interfaces>
          <interface>
            <name>[Interface name]</name>
            <networkId>[Network ID]</networkId>
          </interface>
        </interfaces>
        <name>[Server load balancer name]</name>
        <ruleset>
          <description>[Ruleset description]</description>
          <name>[Ruleset name]</name>
          <lplatformModel>[L-Platform model]</lplatformModel>
          <desigintype>UserCustomize</desigintype>
          <deviceModel>[Network device model]</deviceModel>
          <maxAccessRuleSetting>[Maximum number of access rules that can be handled by the ruleset]
          </maxAccessRuleSetting>
          <maxProvision>[Maximum number of firewalls that can be deployed to a network device according
to the ruleset]</maxProvision>
          <parameters>
            <parameter>
              <description>[Parameter information description]</description>
```

```

        <summary>[Parameter summary]</summary>
        <name>[Parameter information name]</name>
        <value>[Parameter value]</value>
        <view>[Show or hide parameter]</view>
        <syntax>[Parameter syntax]</syntax>
        <required>[Flag indicating whether value is required]</required>
    </parameter>
</parameters>
<parametergroups>
    <parametergroup>
        <name>[Parameter group name]</name>
        <id>[Parameter group ID]</id>
        <parameters>
            <parameter>
                <description>[Parameter description]</description>
                <summary>[Parameter summary]</summary>
                <name>[Parameter name]</name>
                <value>[Parameter value]</value>
                <view>[Parameter display flag]</view>
                <syntax>[Parameter syntax]</syntax>
                <required>[Flag indicating whether value is required]</required>
            </parameter>
        </parameters>
    </parametergroup>
</parametergroups>
</ruleset>
</slb>
</slbs>
<registrant>[The person who registered the L-Platform template]</registrant>
<connector>[Connection destination]</connector>
<publicips>
    <publicip>
        <address>[IP address]</address>
    </publicip>
</publicips>
<networks>
    <network>
        <name>[Network name]</name>
        <networkCategory>[Network type]</networkCategory>
        <networkId>[Network ID]</networkId>
        <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
        <resourceId>[Network resource ID]</resourceId>
        <segmentType>[Segment identifier]</segmentType>
    </network>
</networks>
<lserver>
    <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>
    </lserver>
</lserver>

```

```

<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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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

Parameter name	Item	Item description
registrant	Description	The person who registered the L-Platform template.
	Type	UTF-8 string.
	Number of occurrences	0 or 1
connector	Description	Connection destination. One of the following values:  - none : No connection - intranet: intranet - internet: internet - both : Both Internet and intranet  This element will only be displayed if a simple configuration firewall has been set.
	Type	string ASCII
	Number of occurrences	0 or 1
publicips	Description	Element holding the response information for the global IP address.
	Type	None.
	Number of occurrences	0 or 1
publicip	Description	Set of global IP address information.
	Type	None.
	Number of occurrences	0 or more.
address	Description	IP address
	Type	string ASCII
	Number of occurrences	0 or 1
networks	Description	Element holding the response information for the network information.
	Type	None.
	Number of occurrences	0 or 1
network	Description	Set of network information.
	Type	None.
	Number of occurrences	0 or more.
networkId	Description	Network ID.
	Type	ASCII string
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).
name	Description	Network name.
	Type	UTF-8 string.
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).
numOfMaxVm	Description	Maximum number of VMs.
	Type	int
	Number of occurrences	As many as there are vnet elements (0 or 1 element for each vnet element).
resourceId	Description	Network resource ID.

Parameter name	Item	Item description
	Type	ASCII string
	Number of occurrences	As many as there are network 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	ASCII string
	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	UTF-8 string
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interfaces	Description	Element holding the response information for the interface information.
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interface	Description	Set of interface information.
	Type	None.
	Number of occurrences	As many as there are interfaces elements (0 or 1 element for each interfaces element).
name	Description	Interface name.
	Type	UTF-8 string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
networkId	Description	Network ID.
	Type	ASCII string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Firewall ruleset.
	Type	None.
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).



Parameter name	Item	Item description
name	Description	Ruleset name.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
description	Description	Ruleset description.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
lplatformModel	Description	L-Platform model. Select one of the following: - "Firewall+SLB": Firewall and server load balancer - "Firewall only": Firewall only
	Type	ASCII string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
designtype	Description	UI type. One of the following: - UserCustomize: User customization - Simple: Simple configuration
	Type	string ASCII
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
deviceModel	Description	Network device model.
	Type	string UTF-8
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
maxAccessRuleSetting	Description	Maximum number of access rules that can be handled by the ruleset.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
maxProvision	Description	Maximum number of firewalls that can be deployed to a network device according to the ruleset.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameters	Description	Element holding the response information for the ruleset parameter information.
	Type	None.
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameter	Description	Set of ruleset 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.

Parameter name	Item	Item description
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Parameter display flag.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
required	Description	Specify whether parameter values must be specified using one of the following: - true: required - false: optional
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
description	Description	Parameter information description.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
summary	Description	Parameter summary.
	Type	string UTF-8
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
parametergroups	Description	Element holding the response information for the parameter group information of the ruleset.
	Type	None.
	Number of occurrences	0 or 1
parametergroup	Description	Set of parameter group information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Parameter group name.
	Type	string UTF-8
	Number of occurrences	0 or 1
id	Description	Parameter group ID.
	Type	string ASCII
	Number of occurrences	0 or 1

Parameter name	Item	Item description
parameters	Description	Element holding the response information for the parameter information of the ruleset.
	Type	None.
	Number of occurrences	0 or 1
parameter	Description	Set of parameter information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Parameter name.
	Type	string UTF-8
	Number of occurrences	0 or 1
view	Description	Parameter display flag.
	Type	string ASCII
	Number of occurrences	0 or 1
required	Description	Specify whether parameter values must be specified, using one of the following: - true : required - false : optional
	Type	string ASCII
	Number of occurrences	0 or 1
value	Description	Parameter value.
	Type	string ASCII
	Number of occurrences	0 or 1
description	Description	Parameter description.
	Type	string UTF-8
	Number of occurrences	0 or 1
summary	Description	Parameter summary.
	Type	string UTF-8
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax.
	Type	string ASCII
	Number of occurrences	0 or 1
slbs	Description	Element holding the response information for the server load balancer information.
	Type	None.
	Number of occurrences	0 or 1
slb	Description	Set of server load balancer information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Server load balancer name.
	Type	UTF-8 string

Parameter name	Item	Item description
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
interfaces	Description	Element holding the response information for the interface information.
	Type	None.
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
interface	Description	Set of interface information.
	Type	None.
	Number of occurrences	As many as there are .interfaces elements (0 or more element for each .interfaces element).
name	Description	Interface name.
	Type	UTF-8 string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
networkId	Description	Network ID.
	Type	ASCII string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Server load balancer ruleset.
	Type	None.
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
name	Description	Ruleset name.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
description	Description	Ruleset description.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
lplatformModel	Description	L-Platform model. Select one of the following: - "Firewall+SLB": Firewall and server load balancer - "SLB only": Server load balancer only
	Type	ASCII string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameters	Description	Element holding the response information for the parameter information of the ruleset.
	Type	None.
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameter	Description	Set of parameter information of the ruleset.

Parameter name	Item	Item description
	Type	None.
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
name	Description	Parameter information name.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Show or hide parameter.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
required	Description	Specify whether parameter values must be specified using one of the following: - true: required - false: optional
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
description	Description	Parameter information description.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
summary	Description	Parameter summary
	Type	string UTF-8
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
lservers	Description	Element holding the response information for the virtual machine information.
	Type	None.
	Number of occurrences	0 or 1
lserver	Description	Set of virtual machine information.
	Type	None.
	Number of occurrences	0 or more.
creator	Description	The tenant name of the person who created the virtual machine.
	Type	ASCII string

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

Parameter 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).
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	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).
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.

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



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

## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<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>
        <name>Firewall</name>
        <ruleset>
          <desigintype>UserCustomize</desigintype>
          <description>ruleset_1</description>
          <name>rule1</name>
          <lplatformModel>Firewall+SLB</lplatformModel>
          <parameters>
            <parameter>
              <description>Parameter_1</description>
              <name>param_var_001</name>
              <value>200</value>
              <view>>false</view>
              <syntax>INTEGER(1..255)</syntax>
              <required>>true</required>
              <summary>Parameter 1 summary</summary>
            </parameter>
            <parameter>
              <description>Parameter_2</description>
              <name>param_var_002</name>
              <value/>
              <view>>true</view>
              <syntax>DisplayString(SIZE(0..255))</syntax>
              <required>>true</required>
              <summary>Parameter 2 summary</summary>
            </parameter>
            <parameter>
              <description>Parameter_3</description>
              <name>param_var_003</name>
              <value>400</value>
              <view>>true</view>
              <syntax>INTEGER(1..65535)</syntax>
              <required>>true</required>
            </parameter>
          </parameters>
        </ruleset>
      </firewall>
    </firewalls>
  </lplatformdescriptor>
</GetLPlatformDescriptorConfigurationResponse>
```

```

        <summary>Parameter 3 summary</summary>
    </parameter>
</parameters>
</ruleset>
</firewall>
</firewalls>
<slbs>
    <slb>
        <interfaces>
            <interface>
                <name>network-param-0001</name>
                <networkId>lot2#FWS#</networkId>
            </interface>
            <interface>
                <name>network-param-0002</name>
                <networkId>lot4#FWS#</networkId>
            </interface>
        </interfaces>
        <name>SLB</name>
        <ruleset>
            <description>ruleset(slb_rule1)</description>
            <name>slb_rule1</name>
            <lplatformModel>Firewall+SLB</lplatformModel>
            <parameters>
                <parameter>
                    <description>parameter1</description>
                    <name>param_var_001</name>
                    <value>200</value>
                    <view>>false</view>
                    <syntax>INTEGER(1..255)</syntax>
                    <required>>true</required>
                    <summary>Parameter 1 summary</summary>
                </parameter>
                <parameter>
                    <description>parameter2</description>
                    <name>param_var_002</name>
                    <value/>
                    <view>>true</view>
                    <syntax>DisplayString(SIZE(0..255))</syntax>
                    <required>>true</required>
                    <summary>Parameter 2 summary</summary>
                </parameter>
                <parameter>
                    <description>parameter3</description>
                    <name>param_var_003</name>
                    <value>400</value>
                    <view>>true</view>
                    <syntax>INTEGER(1..65535)</syntax>
                    <required>>true</required>
                    <summary>Parameter 3 summary</summary>
                </parameter>
            </parameters>
        </ruleset>
    </slb>
</slbs>
<registrant>tpladml</registrant>
<networks>
    <network>
        <name>network-param-0001</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>lot2#FWS#</networkId>
        <numOfMaxVm>10</numOfMaxVm>
        <resourceId>mngsrv_1234</resourceId>
    </network>

```

```

    <segmentType>DMZ</segmentType>
</network>
<network>
  <name>network-param-0002</name>
  <networkCategory>BUSINESS</networkCategory>
  <networkId>lot4#FWS#</networkId>
  <numOfMaxVm>10</numOfMaxVm>
  <resourceId>mngsrv_1235</resourceId>
  <segmentType>SECURE</segmentType>
</network>
</networks>
<lserver>
  <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>
    </nics>
  </lserver>

```

```

    <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".
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.

### 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
GetLPlatformDescriptorAttributesResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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

Element name	Item	Item description
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

Parameter name	Item	Item description
	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.

## Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetPoolListResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <resourcepools>
    <vm pools>
      <vm pool>
        <name>[The resource name of the VM pool]</name>
        <vm poolResourceId>[The resource ID of the VM pool]</vm poolResourceId>
        <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>
      </vm pool>
    </vm pools>
    <storagepools>
      <storage pool>
        <name>[The resource name of the storage pool]</name>
        <storage poolResourceId>[The resource ID of the storage pool]</storage poolResourceId>
        <priority>[Priority order]</priority>
        <total>[Total amount of storage]</total>
        <free>[Amount of free storage]</free>
        <maxDiskSize>[Maximum amount of disk space]</maxDiskSize>
      </storage pool>
    </storagepools>
    <macaddresses>
      <mac address>
        <name>[The resource name of the MAC address set]</name>
        <mac address poolResourceId>[The resource ID of the MAC address set]</mac address poolResourceId>
        <total>[Total number of MAC addresses]</total>
        <free>[Number of vacant MAC addresses]</free>
      </mac address>
    </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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.



Element name	Item	Item description
	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	ASCII string
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
priority	Description	Priority order.
	Type	int
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
cpuTotal	Description	Total CPU capacity.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
cpuFree	Description	Free CPU capacity.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
maxCpuPerf	Description	Maximum CPU performance.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
numOfMaxCpu	Description	Maximum number of CPUs.
	Type	int
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
memoryTotal	Description	Total amount of memory.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
memoryFree	Description	Amount of free memory.
	Type	decimal.
	Number of occurrences	As many as there are vmpool elements (0 or 1 element for each vmpool element).
maxMemorySize	Description	Maximum amount of memory.
	Type	decimal.
	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.

Element name	Item	Item description
	Type	None.
	Number of occurrences	0 or more.
name	Description	The resource name of the storage pool.
	Type	UTF-8 string.
	Number of occurrences	As many as there are storagepool elements (0 or 1 element for each storagepool element).
storagepoolResrouceId	Description	The resource ID of the storage pool.
	Type	ASCII string
	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	ASCII string
	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

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

Element name	Item	Item description
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 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>
      </vmPool>
    </vmPools>
  </resourcepools>
</GetPoolListResponse>
```

```

    <vmPoolResourceId>WIN-5EGJBQPP4SJ_4</vmPoolResourceId>
  </vmPool>
</vmpools>
</resourcepools>
<responseMessage>PAPI00000 Processing was completed.</responseMessage>
<responseStatus>SUCCESS</responseStatus>
</GetPoolListResponse>

```

## 2.1.7 ListNetworkResource (Obtain a List of Network Resources)

This API obtains a list of network resources.

### 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 "ListNetworkResource".
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.
networkCategory	Description	Network type. A network resource of the specified network type is obtained.
	Type	ASCII string
	Value	Specify one of the following: - MANAGEMENT: A network resource with MANAGEMENT specified as the network type is obtained. - BUSINESS: A network resource with BUSINESS specified as the network type is obtained.  All network resources are obtained if this is not specified.
segmentType	Description	Segment identifier information. A network resource matching that registered in the segment identifier information is obtained.
	Type	ASCII string
	Value	No more than 32 characters.
showTenant	Description	Tenant name display options.
	Type	ASCII string

Parameter name	Item	Item description
	Value	Specify "true" or "false". When omitted, "false" is assumed.

## Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListNetworkResourceResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <networks>
    <network>
      <addressSet>
        <end>[End address of the address set]</end>
        <mask>[Net mask of the address set]</mask>
        <name>[Address set name]</name>
        <start>[Beginning address of the address set]</start>
        <subnet>[Subnet address of the address set]</subnet>
      </addressSet>
      <addressSetStatus>
        <avail>[Number of available addresses in the address set]</avail>
        <num>[Number of addresses in the address set]</num>
        <used>[Number of reserved addresses in the address set]</used>
      </addressSetStatus>
      <locked>[Flag indicating whether the disk resource is locked for DR]</locked>
      <networkCategory>[Network type]</networkCategory>
      <vlanId>[VLANID]</vlanId>
      <excludeaddressranges>
        <excludeaddressrange>
          <start>[Beginning address of the exclude address]</start>
          <end>[End address of the exclude address]</end>
        </excludeaddressrange>
      </excludeaddressranges>
      <vlanId>12</vlanId>
      <resourceId>[network resource ID]</resourceId>
      <resourceName>[network resource name]</resourceName>
      <resourceType>[Network resource type]</resourceType>
      <tenantName>[Tenant name of the network resource pool]</tenantName>
      <comment>[comment]</comment>
      <gateway>[Default gateway]</gateway>
    </network>
  </networks>
</ListNetworkResourceResponse>
```

<Elements>

Element name	Item	Item description
ListNetworkResourceResponse	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 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.
resourceId	Description	Network resource ID.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
resourceName	Description	Network resource name.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
tenantName	Description	Tenant name of the network resource pool.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
locked	Description	Resource locked status.  Flag indicating whether the disk resource is locked for DR. - true: locked - false : unlocked  When tag does not exist, it is unlocked.  The following limitation applies to locked network resources: - An error occurs if an L-Platform template that contains a locked network resource is used with CreateLPlatform. - An error occurs if a locked network resource is added to an L-Platform using CreateNetwork. - An error occurs if a server connected to a locked network resource is added using CreateLServer. - An error occurs if an NIC is added to a locked network resource using CreateNic.
	Type	ASCII string

Element name	Item	Item description
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
networkCategory	Description	Network type.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
vlanId	Description	VLANID.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
resourceType	Description	Network resource type.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
segmentType	Description	Segment identifier information.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
comment	Description	comment.
	Type	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
gateway	Description	Default gateway.
	Type	ASCII string
	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	ASCII string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
name	Description	Address set name.
	Type	ASCII string
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
subnet	Description	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	Net mask 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	Beginning address of the address set.



Element name	Item	Item description
	Type	ASCII string
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
end	Description	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 exclude address information.
	Type	None.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
excludeaddressrange	Description	Set of exclude address information.
	Type	None.
	Number of occurrences	0 or more.
start	Description	Beginning address of the exclude address.
	Type	ASCII string
	Number of occurrences	As many as there are excludeaddressrange elements (0 or 1 element for each excludeaddressrange element).
end	Description	End address of the exclude address.
	Type	ASCII string
	Number of occurrences	As many as there are excludeaddressrange elements (0 or 1 element for each excludeaddressrange element).
addresssetStatus	Description	Status information of the address set.
	Type	None.
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
num	Description	Number of addresses in the address set.
	Type	ASCII string
	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	ASCII string
	Number of occurrences	As many as there are addresssetStatus elements (0 or 1 element for each addresssetStatus element).
avail	Description	Number of available addresses in the address set.
	Type	ASCII string
	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"?>
<ListNetworkResourceResponse 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>
    <locked>true</locked>
    <networkCategory>BUSINESS</networkCategory>
    <vlanId>11</vlanId>
    <resourceId>network-t-0001</resourceId>
    <resourceName>tenantA-DMZ</resourceName>
    <segmentType>SECURE</segmentType>
  </network>
  <network>
    <addressSet>
      <end>192.xxx.xxx.xxx</end>
      <mask>255.xxx.xxx.xxx</mask>
      <name>Global-Secure</name>
      <start>192.xxx.xxx.xxx</start>
      <subnet>192.xxx.xxx.xxx</subnet>
    </addressSet>
    <addressSetStatus>
      <avail>254</avail>
      <num>254</num>
      <used>254</used>
    </addressSetStatus>
    <networkCategory>MANAGEMENT</networkCategory>
    <excludeaddressranges>
      <excludeaddressrange>
        <start>192.xxx.xxx.xxx</start>
        <end>192.xxx.xxx.xxx</end>
      </excludeaddressrange>
    </excludeaddressranges>
    <vlanId>12</vlanId>
    <resourceId>network-t-0002</resourceId>
    <resourceName>tenantA-Secure</resourceName>
  </network>
</networks>
</ListNetworkResourceResponse>

```

## 2.1.8 ListFirewallRuleset (Obtain a List of Firewall Rulesets)

This API obtains a list of firewall rulesets.

### 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 "ListFirewallRuleset ".
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.

## Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListFirewallRulesetResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <rulesets>
    <ruleset>
      <name>[Ruleset name]</name>
      <type>[Network device type]</type>
      <rulesetCategory>[Ruleset type]</rulesetCategory>
      <numOfMaxSegment>[Maximum number of segments]</numOfMaxSegment>
      <numOfMaxVm>[Maximum number of virtual machines]</numOfMaxVm>
      <description>[Ruleset description]</description>
      <lplatformModel>[L-Platform model]</lplatformModel>
    </ruleset>
  </rulesets>
</ListFirewallRulesetResponse>
```

<Elements>

Element name	Item	Item description
ListFirewallRulesetResponse	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 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
rulesets	Description	Element holding the response information for the firewall ruleset information.
	Type	None.
	Number of occurrences	0 or 1
ruleset	Description	Set of firewall ruleset information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Ruleset name.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
type	Description	Network device type. This is the following value: "Firewall": Firewall
	Type	ASCII string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
rulesetCategory	Description	Ruleset type.
	Type	ASCII string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
numOfMaxSegment	Description	Maximum number of segments.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
numOfMaxVm	Description	Maximum number of virtual machines.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
description	Description	Ruleset description.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).

Element name	Item	Item description
lplatformModel	Description	L-Platform model. Select one of the following: - "Firewall+SLB": Firewall and server load balancer - "Firewall only": Firewall only
	Type	ASCII string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<ListFirewallRulesetResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <rulesets>
    <ruleset>
      <name>Firewall1</name>
      <type>Firewall</type>
      <rulesetCategory>config</rulesetCategory>
      <numOfMaxSegment>3</numOfMaxSegment>
      <numOfMaxVm>5</numOfMaxVm>
      <description>3 Tier firewall system</description>
      <lplatformModel>Firewall only</lplatformModel>
    </ruleset>
    <ruleset>
      <name>Firewall2</name>
      <type>Firewall</type>
      <rulesetCategory>config</rulesetCategory>
      <numOfMaxSegment>3</numOfMaxSegment>
      <numOfMaxVm>10</numOfMaxVm>
      <description>3 Tier firewall and SLB system</description>
      <lplatformModel>Firewall+SLB</lplatformModel>
    </ruleset>
  </rulesets>
</ListFirewallRulesetResponse>
```

## 2.1.9 ListSLBRuleSet (Obtain a List of Server Load Balancer Rulesets)

This API obtains a list of the server load balancer rulesets.

### 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.

Parameter name	Item	Item description
	Type	ASCII string
	Value	Fixed. Specify "ListSLBRuleSet".
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.
[rulesetCategory]	Description	Ruleset type. All ruleset types are obtained if this is omitted.
	Type	ASCII string
	Value	Select one of the following: - "config": Ruleset for configuration - "operation": Ruleset for operation

## Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListSLBRuleSetResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <rulesets>
    <ruleset>
      <name>[RuleSet name]</name>
      <type>[Network device type]</type>
      <rulesetCategory>[RuleSet type]</rulesetCategory>
      <numOfMaxSegment>[Maximum number of segments]</numOfMaxSegment>
      <numOfMaxVm>[Maximum number of virtual machines]</numOfMaxVm>
      <description>[RuleSet description]</description>
      <lplatformModel>[L-Platform model]</lplatformModel>
    </ruleset>
  </rulesets>
</ListSLBRuleSetResponse>
```

<Elements>

Element name	Item	Item description
ListSLBRuleSetResponse	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 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
rulesets	Description	Element holding the response information for the ruleset list of the server load balancer.
	Type	None.
	Number of occurrences	0 or 1
ruleset	Description	Set of server load balancer ruleset information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Ruleset name.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
type	Description	Network device type.
	Type	ASCII string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
rulesetCategory	Description	Ruleset type.
	Type	ASCII string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
numOfMaxSegment	Description	Maximum number of segments.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
numOfMaxVm	Description	Maximum number of virtual machines.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
description	Description	Ruleset description.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).

Element name	Item	Item description
lplatformModel	Description	L-Platform model. Select one of the following: - "Firewall+SLB": Firewall and server load balancer - "Firewall only": Firewall only
	Type	string ACSII
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<ListSLBRulesetResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <rulesets>
    <ruleset>
      <name>SLB1</name>
      <type>SLB</type>
      <rulesetCategory>config</rulesetCategory>
      <description>SLB server1</description>
      <lplatformModel>SLB only</lplatformModel>
    </ruleset>
    <ruleset>
      <name>SLB2</name>
      <type>SLB</type>
      <rulesetCategory>operation</rulesetCategory>
      <description>SLB server2</description>
      <lplatformModel>SLB only</lplatformModel>
    </ruleset>
  </rulesets>
</ListSLBRulesetResponse>
```

## 2.1.10 GetRulesetConfiguration (Obtain the Configuration Information for the Ruleset)

This API obtains the configuration information for a ruleset.

This can be executed on both the firewall and server load balancer rulesets.

### 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 "GetRulesetConfiguration".



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.
rulesetName	Description	Ruleset name.
	Type	ASCII string
	Value	No more than 32 characters.

## Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRulesetConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <ruleset>
    <name>[Ruleset name]</name>
    <type>[Network device type]</type>
    <rulesetCategory>[Ruleset type]</rulesetCategory>
    <lplatformModel>[L-Platform model]</lplatformModel>
    <numOfMaxSegment>[Maximum number of segments]</numOfMaxSegment>
    <numOfMaxVm>[Maximum number of virtual machines]</numOfMaxVm>
    <description>[Ruleset description]</description>
    <desigintype>[UI type]</desigintype>
    <parameters>
      <parameter>
        <name>[Parameter name]</name>
        <view>[Show or hide parameter]</view>
        <value>[Parameter value]</value>
        <summary>[Parameter summary]</summary>
        <description>[Parameter description]</description>
        <syntax>[Parameter syntax]</syntax>
        <required>[Flag indicating whether value is required]</required>
      </parameter>
    </parameters>
    <parametergroups>
      <parametergroup>
        <name>[Parameter group name]</name>
        <id>[Parameter group ID]</id>
        <parameters>
          <parameter>
            <name>[Parameter name]</name>
            <view>[Parameter display flag]</view>
            <value>[Parameter value]</value>
            <summary>[Parameter summary]</summary>
            <description>[Parameter description]</description>
            <syntax>[Parameter syntax]</syntax>
            <required>[Flag indicating whether value is required]</required>
          </parameter>
        </parameters>
      </parametergroup>
    </parametergroups>
  </ruleset>
</GetRulesetConfigurationResponse>
```

```

        </parameter>
    </parameters>
</parametergroup>
</parametergroups>
</ruleset>
<interfaces>
    <interface>
        <name>[Interface name]</name>
        <segmentType>[Segment identifier]</segmentType>
    </interface>
</interfaces>
<configurations>
    <deviceModel>[Network device model]</deviceModel>
    <maxAccessRuleSetting>[Maximum number of access rules that can be handled by the ruleset]</
maxAccessRuleSetting>
    <maxProvision>[Maximum number of firewalls that can be deployed to a network device according to
the ruleset]</maxProvision>
</configurations>
</GetRulesetConfigurationResponse>

```

<Elements>

Element name	Item	Item description
GetRulesetConfigurationResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
ruleset	Description	Set of server load balancer ruleset information.
	Type	None.
	Number of occurrences	0 or 1
name	Description	Ruleset name.
	Type	UTF-8 string
	Number of occurrences	0 or 1
type	Description	Network device type. Select one of the following: - "Firewall": Firewall - "SLB": Server load balancer
	Type	ASCII string

Element name	Item	Item description
	Number of occurrences	0 or 1
rulesetCategory	Description	Ruleset type Select one of the following: - "config": Ruleset for configuration - "operation": Ruleset for operation
	Type	ASCII string
	Number of occurrences	0 or 1
lplatformModel	Description	L-Platform model. Select one of the following: - "Firewall+SLB": Firewall and server load balancer - "Firewall only": Firewall only - "SLB only": Server load balancer only
	Type	ASCII string
	Number of occurrences	0 or 1
numOfMaxSegment	Description	Maximum number of segments.
	Type	int
	Number of occurrences	0 or 1
numOfMaxVm	Description	Maximum number of virtual machines.
	Type	int
	Number of occurrences	0 or 1
description	Description	Ruleset description.
	Type	UTF-8 string
	Number of occurrences	0 or 1
desingtype	Description	UI type. Specify one of the following: - UserCustomize: User customization - Simple: Simple configuration
	Type	string ASCII
	Number of occurrences	0 or 1
parameters	Description	Element holding the response information for the ruleset parameter information.
	Type	None.
	Number of occurrences	0 or 1
parameter	Description	Set of ruleset parameter information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Parameter information name.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Show or hide parameter.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value.

Element name	Item	Item description
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
required	Description	Specify whether parameter values must be specified using one of the following: - true: required - false: optional
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
summary	Description	Parameter summary.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
description	Description	Parameter description.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
syntax	Description	Parameter syntax.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
parametergroups	Description	Element holding the response information for the parameter group information.
	Type	None.
	Number of occurrences	0 or 1
parametergroup	Description	Set of parameter group information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Parameter group name
	Type	string UTF-8
	Number of occurrences	0 or 1
id	Description	Parameter group ID
	Type	string UTF-8
	Number of occurrences	0 or 1
parameters	Description	Element holding the response information for the parameter information.
	Type	None.
	Number of occurrences	0 or 1
parameter	Description	Set of parameter information.
	Type	None.
	Number of occurrences	0 or more.

Element name	Item	Item description
name	Description	Parameter name.
	Type	string UTF-8
	Number of occurrences	0 or 1
view	Description	Parameter display flag
	Type	string ASCII
	Number of occurrences	0 or 1
required	Description	Specify whether parameter values must be specified, using one of the following: - true : required - false : optional
	Type	string ASCII
	Number of occurrences	0 or 1
summary	Description	Parameter summary.
	Type	string UTF-8
	Number of occurrences	0 or 1
description	Description	Parameter description.
	Type	string UTF-8
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax.
	Type	string ASCII
	Number of occurrences	0 or 1
interfaces	Description	Element holding the response information for the interface information.
	Type	None.
	Number of occurrences	0 or 1
interface	Description	Set of interface information.
	Type	None.
	Number of occurrences	0 or more.
name	Description	Interface name.
	Type	UTF-8 string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
segmentType	Description	Segment identifier.
	Type	ASCII string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
configurations	Description	Device definition information.  This element will only be displayed if the user interface type is "Simple configuration".
	Type	None.
	Number of occurrences	0 or 1

Element name	Item	Item description
deviceModel	Description	Network device model
	Type	string ASCII
	Number of occurrences	0 or 1
maxAccessRuleSetting	Description	Maximum number of access rules that can be handled by the ruleset
	Type	int
	Number of occurrences	0 or 1
maxProvision	Description	Maximum number of firewalls that can be deployed to a network device according to the ruleset.
	Type	int
	Number of occurrences	0 or 1

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRulesetConfigurationResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>SUCCESS</responseMessage>
  <responseStatus>PAPI00000</responseStatus>
  <ruleset>
    <desigintype>UserCustomize</desigintype>
    <name>Firewall1</name>
    <type>Firewall</type>
    <rulesetCategory>config</rulesetCategory>
    <lplatformModel>Firewall only</lplatformModel>
    <numOfMaxSegment>10</numOfMaxSegment>
    <numOfMaxVm>3</numOfMaxVm>
    <description>SLB server1</description>
    <parameters>
      <parameter>
        <name>param_var_001</name>
        <view>true</view>
        <value>400</value>
        <summary>param1</summary>
        <description>param1</description>
        <syntax>INTEGER(0..65535)</syntax>
        <required>true</required>
      </parameter>
      <parameter>
        <name>param_var_002</name>
        <view>true</view>
        <value>200</value>
        <summary>param2</summary>
        <description>param2</description>
        <syntax>INTEGER(0..255)</syntax>
        <required>true</required>
      </parameter>
    </parameters>
  </ruleset>
  <interfaces>
    <interface>
      <name>interface1</name>
      <segmentType>SECURE</segmentType>
    </interface>
    <interface>
      <name>interface2</name>
```

```

    <segmentType>DMZ</segmentType>
  </interface>
</interfaces>
</GetRulesetConfigurationResponse>

```

## 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.

If the template contains servers with the same name, then each one will be suffixed with a unique number (starting from 1).



#### Note

- When a physical server is included in a template, only two APIs can be executed simultaneously, due to the limitations of the hardware that is set.  
When creating 2 or more L-Platforms with physical servers, leave some time between the executions of this API.
- When an L-Platform template that includes a segment specifying [Auto-Select] is specified, limit the number of CreateLPlatform APIs that are simultaneously executed so that the number of IP addresses required on all L-Platforms that will be deployed concurrently is no greater than the highest number of available IP addresses in those segments that will be selected automatically.  
For example, if two segments will be selected automatically, and these segments have 5 and 4 available IP addresses respectively, up to five APIs can be executed simultaneously if one IP address per L-Platform is required.

#### 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

Parameter name	Item	Item description
	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: < > & ' "

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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	ASCII string
	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.

### Response

<Status code>

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

<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>
      <connector>[Connection destination]</connector>
      <firewalls>
        <firewall>
          <interfaces>
            <interface>
              <name>[Interface name]</name>
              <networkId>[Network ID]</networkId>
            </interface>
          </interfaces>
          <name>[Firewall name]</name>
          <serialNo>[Serial number]</serialNo>
          <ruleset>
            <description>[Ruleset description]</description>
            <name>[Ruleset name]</name>
            <designtype>[UI type]</designtype>
            <deviceModel>[Network device model]</deviceModel>
            <maxAccessRuleSetting>[Maximum number of access rules that can be handled by the ruleset]</
maxAccessRuleSetting>
            <maxProvision>[Maximum number that can be deployed to a network device according to the
ruleset]</maxProvision>
            <parameters>
              <parameter>
                <description>[Parameter information description]</description>
                <summary>[Parameter summary]</summary>
                <name>[Parameter information name]</name>
                <value>[Parameter value]</value>
                <view>[Parameter display flag]</view>
                <syntax>[Parameter syntax]</syntax>
                <required>[Flag indicating whether value is required]</required>
              </parameter>
            </parameters>
            <parametergroups>
              <parametergroup>
                <name>[Parameter group name]</name>
                <id>[Parameter group ID]</id>
                <parameters>
                  <parameter>
                    <description>[Parameter description]</description>
                    <summary>[Parameter summary]</summary>
                    <name>[Parameter name]</name>
                    <value>[Parameter value]</value>
                    <view>[Parameter display flag]</view>
                    <syntax>[Parameter syntax]</syntax>
                    <required>[Flag indicating whether value is required]</required>
                  </parameter>
                </parameters>
              </parametergroup>
            </parametergroups>
          </ruleset>
        </firewall>
      </firewalls>
    </lplatform>
  </lplatforms>
  <slbs>
    <slb>

```

```

<interfaces>
  <interface>
    <name>[Interface name]</name>
    <networkId>[Network ID]</networkId>
  </interface>
</interfaces>
<name>[Server load balancer name]</name>
<ruleset>
  <description>[Ruleset description]</description>
  <name>[Ruleset name]</name>
  <parameters>
    <parameter>
      <description>[Parameter information description]</description>
      <summary>[Parameter summary]</summary>
      <name>[Parameter information name]</name>
      <value>[Parameter value]</value>
      <view>[Show or hide parameter]</view>
      <syntax>[Parameter syntax]</syntax>
    </parameter>
  </parameters>
</ruleset>
<operationLogExist>[This flag indicates whether there are operation logs that have not been
acquired]</operationLogExist>
</slb>
</slbs>
<connector>[Connection destination]</connector>
<networks>
  <network>
    <name>[Network name]</name>
    <networkCategory>[Network type]</networkCategory>
    <networkId>[Network ID]</networkId>
    <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
    <resourceId>[Network resource ID]</resourceId>
    <segmentType>[Segment type information]</segmentType>
  </network>
</networks>
<lserver>
  <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>
    <memoryReserve>[Reserved memory capacity]</memoryReserve>
    <memoryShare>[Memory allotment ratio]</memoryShare>
    <numOfCpu>[Number of CPUs]</numOfCpu>
    <cpuReserve>[CPU reserve performance]</cpuReserve>
    <cpuShare>[CPU allotment ratio]</cpuShare>
    <maxDefinableMemorySize>[Maximum amount of memory]</maxDefinableMemorySize>
    <memoryHotPlug>[Memory hot plug]</memoryHotPlug>
    <requestCpuPerf>[Requested CPU performance]</requestCpuPerf>
    <requestMemorySize>[Requested memory capacity]</requestMemorySize>
  </lserver>
</lserver>

```

```

<requestNumOfCpu>[Requested number of CPUs]</requestNumOfCpu>
<sparePool>[The resource name of the spare pool]</sparePool>
<storagePool>[The resource name of the storage pool]</storagePool>
<sysvolSize>[The size of the system volume]</sysvolSize>
<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>
<containerPoolManaged>[Flag to indicate whether it is managed by this product]</
containerPoolManaged>
<snapshotExist>[Flag to indicate whether a snapshot is on the server]</snapshotExist>
<priority>[Power priority]</priority>
<image>
  <cpuBit>[Number of bits for the CPU]</cpuBit>
  <id>[Image ID]</id>
  <maxCpuPerf>[Maximum CPU performance]</maxCpuPerf>
  <maxDiskSize>[Maximum amount of disk space]</maxDiskSize>
  <maxMemorySize>[Maximum amount of memory]</maxMemorySize>
  <maxSysvolSize>[Maximum capacity of system disk]</maxSysvolSize>
  <numOfMaxCpu>[Maximum number of CPUs]</numOfMaxCpu>
  <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>
    <bladeLogic>[Flag to indicate configuration changes/returns depending on whether BladeLogic
exists]</bladeLogic>
</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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.
	Type	ASCII string

Element name	Item	Item description
	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	ASCII string
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
bladeLogic	Description	Either of the following flags can be specified to indicate whether reconfiguration or return can be performed in case there are any Solaris Zones or OVM for SPARC servers: true: The L-Platform does not have Solaris Zones or OVM for SPARC servers, or reconfiguration or return can be performed even if the L-Platform has Solaris Zones or OVM for SPARC servers. false: The L-Platform has Solaris Zones or OVM for SPARC servers, and reconfiguration or return cannot be performed. This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lplatform element).
connector	Description	Connection destination. One of the following values: - none : No connection - intranet : intranet - internet : internet - both : Both Internet and intrane  This element will only be displayed if a simple configuration firewall has been set.  This element will only be displayed if "true" has been set in "verbose".

Element name	Item	Item description
	Type	string ASCII
	Number of occurrences	0 or 1
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	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. 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).
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).
resourceId	Description	Network resource 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 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).

Element name	Item	Item description
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	ASCII string
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
serialNo	Description	Serial number. This element will only be displayed if simple configuration has been set. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	0 or 1
interfaces	Description	Element holding the response information for the interface information. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interface	Description	Set of interface information. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	0 or more
name	Description	Interface name. This element will only be displayed if "true" has been set in "verbose".
	Type	UTF-8 string
	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	ASCII string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Set of firewall ruleset information. This element will only be displayed if "true" has been set in "verbose".
	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).
name	Description	Ruleset 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 ruleset elements (0 or 1 element for each ruleset element).
designtype	Description	UI type. Specify one of the following: - UserCustomize: User customization - Simple: Simple configuration This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
deviceModel	Description	Network device model. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	0 or 1
maxAccessRuleSetting	Description	Maximum number of access rules that can be handled by the ruleset. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	0 or 1
maxProvision	Description	Maximum number of firewall that can be deployed to a network device according to the ruleset. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	0 or 1
description	Description	Ruleset description. 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 ruleset elements (0 or 1 element for each ruleset element).
parameters	Description	Element holding the response information for the ruleset 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 ruleset elements (0 or 1 element for each ruleset 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

Element name	Item	Item description
name	Description	Parameter information 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 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	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
required	Description	Specify whether parameter values must be specified using one of the following: - true: required - false: optional
	Type	ASCII string
	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	ASCII string
	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	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
summary	Description	Parameter summary. This element will only be displayed if "true" has been set in "verbose".
	Type	string UTF-8
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element)
parameterGroups	Description	Element holding the response information for the parameter group information of the ruleset. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	0 or 1
parameterGroup	Description	Set of parameter group information. This element will only be displayed if "true" has been set in "verbose".

Element name	Item	Item description
	Type	None
	Number of occurrences	0 or more
name	Description	Parameter group name. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
id	Description	Parameter group ID. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
parameters	Description	Element holding the response information for the parameter information of the ruleset. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	0 or 1
parameter	Description	Set of parameter information. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	0 or more
name	Description	Parameter information name. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
view	Description	Parameter display flag. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
required	Description	Specify whether parameter values must be specified, using one of the following: - true : required - false : optional This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
value	Description	Parameter value. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
description	Description	Parameter information description. This element will only be displayed if "true" has been set in "verbose".

Element name	Item	Item description
	Type	string ASCII
	Number of occurrences	0 or 1
summary	Description	Parameter summary. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
slbs	Description	Element holding the response information for the server load balancer 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)
slb	Description	Set of server load balancer information. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	0 or more
name	Description	Server load balancer name. This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb 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 slb elements (0 or 1 element for each slb element)
interface	Description	Set of interface information. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	0 or more
name	Description	Interface name. This element will only be displayed if "true" has been set in "verbose".
	Type	UTF-8 string
	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	ASCII string

Element name	Item	Item description
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element)
ruleset	Description	Set of server load balancer ruleset information. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element)
name	Description	Ruleset 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 ruleset elements (0 or 1 element for each ruleset element)
description	Description	Ruleset description.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element)
parameters	Description	Element holding the response information for the parameter information of the ruleset. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element)
parameter	Description	Set of parameter information. This element will only be displayed if "true" has been set in "verbose".
	Type	None
	Number of occurrences	0 or more
name	Description	Parameter information name. This element will only be displayed if "true" has been set in "verbose".
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element)
view	Description	Show or hide parameter. This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element)
required	Description	Specify whether parameter values must be specified using one of the following: - true: required - false: optional
	Type	ASCII string
	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. 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 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	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element)
summary	Description	Parameter summary. This element will only be displayed if "true" has been set in "verbose".
	Type	string ASCII
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element)
operationLogExist	Description	This flag indicates whether there are operation logs that have not been acquired. It will be one of the following: - true: There are operation logs that have not been acquired. - false: There are no operation logs that have not been acquired.  Operation is not possible if this is "true". This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb 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	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.

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

Element name	Item	Item description
	Type	UTF-8 string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
sparePool	Description	The resource name of the spare pool.
	Type	UTF-8 string
	Number of occurrences	As many as there are lserver 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	UTF-8 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. 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	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. 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	ASCII string
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicgroupIndex	Description	NIC group index to which the server belongs. This will not be displayed if the server is not included in the NIC group. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).



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

Element name	Item	Item description
		<ul style="list-style-type: none"> <li>- "RUNNING": The server is running.</li> <li>- "STOPPING": The server is stopping.</li> <li>- "STOPPED": The server is stopped.</li> <li>- "STARTING": The server is operating.</li> <li>- "FAILOVER": The server is operating with failover status.</li> <li>- "UNEXPECTED STOP": The server has stopped unexpectedly.</li> <li>- "RESTORING": The server is being restored.</li> <li>- "BACKUP_ING": The server is being backed up.</li> <li>- "ERROR": A server error has occurred.</li> <li>- "START_ERROR": An error has occurred when the server is starting.</li> <li>- "STOP_ERROR": An error has occurred when the server is stopping.</li> </ul> <p>This element will only be displayed if "true" has been set in "verbose".</p>
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
hostName	Description	<p>Host name of the server.</p> <p>This element will only be displayed if "true" has been set in "verbose".</p>
	Type	UTF-8 string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
vmType	Description	<p>VM type.</p> <ul style="list-style-type: none"> <li>- "VMware": VMware.</li> <li>- "RHEL-Xen": RHEL5-Xen.</li> <li>- "Hyper-V": Hyper-V.</li> <li>- "RHEL-KVM": RHEL-KVM.</li> <li>- "Solaris Containers": Solaris Zones</li> </ul> <p>This element will only be displayed if "true" has been set in "verbose".</p>
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
Pool	Description	<p>The resource name of the VM pool.</p> <p>This will only be output if the server type is a server.</p> <p>This element will only be displayed if "true" has been set in "verbose".</p>
	Type	UTF-8 string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
storagePool	Description	<p>The resource name of the storage pool.</p> <p>This element will only be displayed if "true" has been set in "verbose".</p>
	Type	UTF-8 string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
cpuPerf	Description	<p>CPU performance.</p> <p>This element will only be displayed if "true" has been set in "verbose".</p>
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

Element name	Item	Item description
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).
maxDefinableMemorySize	Description	Maximum amount of memory. It indicates the maximum amount of memory that can be allocated for memory hot plug-enabled KVM servers. 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).
memoryHotPlug	Description	Memory hot plug. If it is enabled on a KVM server, the memory size can be changed without powering off. - true: enabled - false: disabled  When memory hot plug is enabled, the maximum amount of memory that can be changed is limited to the least of the following: - MAXDefinableMemorySize - "Maximum memory" of the image information Physical - memory size of the VM host. 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).
memorySize	Description	Amount of memory. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memoryReserve	Description	Reserved memory capacity. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memoryShare	Description	Memory allotment ratio. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestCpuPerf	Description	Requested CPU performance. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestNumOfCpu	Description	Requested number of CPUs. This element will only be displayed if "true" has been set in "verbose".
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestMemorySize	Description	Requested memory capacity. This element will only be displayed if "true" has been set in "verbose".
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverType	Description	Server type. One of the following: - "Physical": Physical server. - "Virtual": Virtual Server This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
serverType	Description	Server type. This element will only be displayed if "true" has been set in "verbose".
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
priority	Description	Priority startup levels are set to between 1 and 256 when performing batch power supply controls. These values will be started up from small servers. However, servers with a startup priority level of '0' are not eligible for batch power supply operations.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
image	Description	Set of image information.

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).
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).
numOfMaxCpu	Description	Maximum number of CPUs.
	Type	int
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
maxCpuPerf	Description	Maximum CPU performance.
	Type	decimal
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
maxDiskSize	Description	Maximum amount of disk space.
	Type	decimal
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
maxMemorySize	Description	Maximum amount of memory.
	Type	decimal
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
maxSysvolSize	Description	Maximum capacity of system disk.
	Type	decimal
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
numOfMaxDisk	Description	Maximum number of disks.
	Type	int
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
numOfMaxNic	Description	Maximum number of NICs.
	Type	int
	Number of occurrences	As many as there are image elements (0 or 1 element for each image element).
serverApplication	Description	Server usage. One of the following values: - "WEB": Web server.

Element name	Item	Item description
		- "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	UTF-8 string
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
name	Description	Software name.
	Type	UTF-8 string
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
officialVersion	Description	Official version
	Type	ASCII string
	Number of occurrences	As many as there are software elements (0 or 1 element for each software element).
patch	Description	Patch version.

Element name	Item	Item description
	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
	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

Element name	Item	Item description
	Number of occurrences	As many as there are resource elements (0 or 1 element for each resource element).
containerPoolManaged	Description	Flag indicating whether the container resource pool where the server operates is managed by this product. This is one of the following: - true: Managed - false: Not managed
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
snapshotExist	Description	Flag indicating whether a snapshot exists on the server. This is one of the following: - true: Snapshot exists - false: Snapshot does not exist
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
sysvolSize	Description	The size of the system volume.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<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>800NW7TZV-N-1ot2#FWS#</networkId>
            </interface>
            <interface>
              <name>network-param-0002</name>
              <networkId>800NW7TZV-N-1ot4#FWS#</networkId>
            </interface>
          </interfaces>
          <name>Firewall</name>
          <ruleset>
            <desigintype>UserCustomize</desigintype>
            <description>ruleset-1</description>
            <name>rule1</name>
            <parameters>
              <parameter>
                <description>parameter-1</description>
                <name>param_var_001</name>
                <value>200</value>
              </parameter>
            </parameters>
          </ruleset>
        </firewall>
      </firewalls>
    </lplatform>
  </lplatforms>
</ListLPlatformResponse>
```



```

        <view>false</view>
        <syntax>INTEGER(1..255)</syntax>
        <required>false</required>
        <summary>param1 summary</summary>
    </parameter>
    <parameter>
        <description>parameter-2</description>
        <name>param_var_002</name>
        <value/>
        <view>true</view>
        <syntax>DisplayString(SIZE(0..255))</syntax>
        <required>false</required>
        <summary>param2 summary</summary>
    </parameter>
    <parameter>
        <description>parameter-3</description>
        <name>param_var_003</name>
        <value>400</value>
        <view>true</view>
        <syntax>INTEGER(1..65535)</syntax>
        <required>false</required>
        <summary>param3 summary</summary>
    </parameter>
</parameters>
</ruleset>
</firewall>
</firewalls>
<slbs>
    <slb>
        <interfaces>
            <interface>
                <name>network-param-0003</name>
                <networkId>800NW7TZV-N-lot2#FWS#</networkId>
            </interface>
            <interface>
                <name>network-param-0004</name>
                <networkId>800NW7TZV-N-lot4#FWS#</networkId>
            </interface>
        </interfaces>
        <name>SLB</name>
        <ruleset>
            <description>ruleset</description>
            <name>slb_rule1</name>
            <parameters>
                <parameter>
                    <description>parameter1</description>
                    <name>param_var_001</name>
                    <value>200</value>
                    <view>false</view>
                    <syntax>INTEGER(1..255)</syntax>
                    <required>false</required>
                    <summary>param1 summary</summary>
                </parameter>
                <parameter>
                    <description>parameter2</description>
                    <name>param_var_002</name>
                    <value/>
                    <view>true</view>
                    <syntax>DisplayString(SIZE(0..255))</syntax>
                    <required>false</required>
                    <summary>param2 summary</summary>
                </parameter>
            </parameters>
        </ruleset>
    </slb>
</slbs>

```

```

        <description>parameter3</description>
        <name>param_var_003</name>
        <value>400</value>
        <view>true</view>
        <syntax>INTEGER(1..65535)</syntax>
        <required>false</required>
        <summary>param3 summary</summary>
    </parameter>
</parameters>
</ruleset>
</slb>
</slbs>
<networks>
    <network>
        <name>network-param-0002</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>800NW7TZV-N-1ot4#FWS#</networkId>
        <numOfMaxVm>10</numOfMaxVm>
        <resourceId>mngsrv_1234</resourceId>
    </network>
    <network>
        <name>network-param-0001</name>
        <networkCategory>BUSINESS</networkCategory>
        <networkId>800NW7TZV-N-1ot2#FWS#</networkId>
        <numOfMaxVm>10</numOfMaxVm>
        <resourceId>mngsrv_1235</resourceId>
    </network>
</networks>
<lserver>
    <cpuPerf>1.0</cpuPerf>
    <creator>tenantA</creator>
    <diskimageId>image-1324e093f4e</diskimageId>
    <diskimageName>g-physical-0001</diskimageName>
    <hostName>V800NW7TZV0001</hostName>
    <memorySize>2.0</memorySize>
    <numOfCpu>2</numOfCpu>
    <requestCpuPerf>1.4</requestCpuPerf>
    <requestMemorySize>2.0</requestMemorySize>
    <requestNumOfCpu>1</requestNumOfCpu>
    <sparePool>/SparePool</sparePool>
    <storagePool>/StoragePool</storagePool>
    <sysvolSize>100</sysvolSize>
    <lserverType>Physical</lserverType>
    <disks/>
    <image>
        <cpuBit>32</cpuBit>
        <id>image-132480039e8</id>
        <maxCpuPerf>4.0</maxCpuPerf>
        <maxDiskSize>100.0</maxDiskSize>
        <maxMemorySize>8.0</maxMemorySize>
        <maxSysvolSize>200.0</maxSysvolSize>
        <numOfMaxCpu>2</numOfMaxCpu>
        <numOfMaxDisk>0</numOfMaxDisk>
        <numOfMaxNic>3</numOfMaxNic>
        <serverApplication>AP</serverApplication>
        <serverCategory>GENERAL</serverCategory>
        <softwares>
            <software>
                <category>OS</category>
                <license>1</license>
                <name>softNameA</name>
                <officialVersion/>
            </software>
        </softwares>
    </image>
</lserver>

```

```

        <patch/>
        <softwareId>SW00000003</softwareId>
        <support>1</support>
        <version>6.0</version>
    </software>
</softwares>
    <sysvolSize>20.0</sysvolSize>
</image>
<pool>/ServerPool</pool>
<nics>
    <nic>
        <management>0</management>
        <networkId>800NW7TZV-N-lot2#FWS#</networkId>
        <nicNo>2</nicNo>
        <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
    <nic>
        <management>1</management>
        <networkId>800NW7TZV-N-lot2#FWS#</networkId>
        <nicNo>1</nicNo>
        <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
</nics>
<lserverId>tenantA-800NW7TZV-S-0001</lserverId>
<lserverName>lserver-1</lserverName>
<lserverStatus>RUNNING</lserverStatus>
<serverType>Economy</serverType>
<resource>
    <name>tenantA-800NW7TZV-S-0002</name>
</resource>
<snapshotExist>false</snapshotExist>
</lserver>
<lserver>
    <cpuPerf>1.2</cpuPerf>
    <creator>tenantA</creator>
    <diskImageId>image-1324e09f82f</diskImageId>
    <diskImageName>g-vm-0002</diskImageName>
    <hostName>V800NW7TZV0002</hostName>
    <memorySize>1.6</memorySize>
    <numOfCpu>1</numOfCpu>
    <storagePool>/StoragePool</storagePool>
    <sysvolSize>100</sysvolSize>
    <lserverType>Virtual</lserverType>
    <disks/>
    <vmPool>/VMHostPool</vmPool>
    <vmType>VMware</vmType>
    <nics>
        <nic>
            <management>0</management>
            <networkId>800NW7TZV-N-lot4#FWS#</networkId>
            <nicNo>3</nicNo>
            <privateIp>192.xxx.xxx.xxx</privateIp>
        </nic>
        <nic>
            <management>0</management>
            <networkId>800NW7TZV-N-lot4#FWS#</networkId>
            <nicNo>2</nicNo>
            <privateIp>192.xxx.xxx.xxx</privateIp>
        </nic>
        <nic>
            <management>1</management>
            <networkId>800NW7TZV-N-lot4#FWS#</networkId>
            <nicNo>1</nicNo>

```

```

        <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
</nics>
<lserverId>tenantA-800NW7TZV-S-0002</lserverId>
<lserverName>lserver-1</lserverName>
<lserverStatus>RUNNING</lserverStatus>
<serverType>over_commit</serverType>
<resource>
    <name>tenantA-800NW7TZV-S-0002</name>
</resource>
<snapshotExist>true</snapshotExist>
</lserver>
</lservers>
<lplatformId>tenantA-800NW7TZV</lplatformId>
<lplatformName>firewall-test</lplatformName>
<lplatformStatus>NORMAL</lplatformStatus>
<bladeLogic>true</bladeLogic>
</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>
            <resourceId>mngsrv_1236</resourceId>
        </network>
        <network>
            <name>AdminLan</name>
            <networkCategory>BUSINESS</networkCategory>
            <networkId>6MYJCS7MR-N-j61j</networkId>
            <numOfMaxVm>10</numOfMaxVm>
            <resourceId>mngsrv_1237</resourceId>
        </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>
    <sparePool>/SparePool</sparePool>
    <storagePool>/StoragePool</storagePool>
    <sysvolSize>100</sysvolSize>
    <lserverType>Physical</lserverType>
    <disks/>
    <pool>/ServerPool</pool>
    <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>
<snapshotExist>>false</snapshotExist>
</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>
  <sysvolSize>100</sysvolSize>
  <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>
  <snapshotExist>>true</snapshotExist>
</lserver>
</lservers>
<lplatformId>tenantA-6MYJCS7MR</lplatformId>
<lplatformName>test-mix</lplatformName>

```

```

    <lplatformStatus>NORMAL</lplatformStatus>
    <bladeLogic>true</bladeLogic>
  </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".
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.

### Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
MoveLPlatformResponse	Description	The version ID of the L-Platform API.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message: This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### 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 "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.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
lplatformStatus	Description	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
	Number of occurrences	0 or 1

## Sample response

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

## 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.

### 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>
  <serialNo>[Serial number]</serialNo>
  <ruleset>
    <description>[Ruleset description]</description>
    <name>[Ruleset name]</name>
    <designType>[UI type]</designType>
    <deviceModel>[Network device model]</deviceModel>
    <maxAccessRuleSetting>[Maximum number of access rules that can be handled by the ruleset]</
maxAccessRuleSetting>
    <maxProvision>[Maximum number of firewalls that can be deployed to a network device according
to the ruleset]</maxProvision>
    <parameters>
      <parameter>
        <description>[Parameter information description]</description>
        <name>[Parameter information name]</name>
        <value>[Parameter value]</value>
        <view>[Parameter display flag]</view>
        <syntax>[Parameter syntax]</syntax>
        <required>[Flag indicating whether value is required]</required>
      </parameter>
    </parameters>
    <parametergroups>
      <parametergroup>
        <name>[Parameter group name]</name>
        <id>[Parameter group ID]</id>
        <parameters>
          <parameter>
            <description>[Parameter description]</description>
            <name>[Parameter name]</name>
            <value>[Parameter value]</value>
            <view>[Parameter display flag]</view>
            <syntax>[Parameter syntax]</syntax>
            <required>[Flag indicating whether value is required]</required>
          </parameter>
        </parameters>
      </parametergroup>
    </parametergroups>
  </ruleset>
</firewall>
</firewalls>
<slbs>
  <slb>
    <interfaces>
      <interface>
        <name>[Interface name]</name>
        <networkId>[Network ID]</networkId>
      </interface>
    </interfaces>
    <name>[Server load balancer name]</name>
    <ruleset>
      <description>[Ruleset description]</description>
      <name>[Ruleset name]</name>
      <parameters>
        <parameter>
          <description>[Parameter information description]</description>
          <name>[Parameter information name]</name>

```

```

        <value>[Parameter value]</value>
        <view>[Show or hide parameter]</view>
        <syntax>[Parameter syntax]</syntax>
        <required>[Flag indicating whether value is required]</required>
    </parameter>
</parameters>
</ruleset>
</operations>
<operation>
    <operationId>[Operation ID]</operationId>
    <status>[Operation status]</status>
    <rulesetName>[Ruleset name]</rulesetName>
</operation>
</operations>
<operationLogExist>[This flag indicates whether there are operation logs that have not been
acquired]</operationLogExist>
</slb>
</slbs>
<connector>[Connection destination]</connector>
<publicips>
    <publicip>
        <address>[IP address]</address>
    </publicip>
</publicips>
<networks>
    <network>
        <name>[Network name]</name>
        <networkCategory>[Network type]</networkCategory>
        <networkId>[Network ID]</networkId>
        <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
        <resourceId>[Network resource ID]</resourceId>
        <segmentType>[Segment type information]</segmentType>
    </network>
</networks>
<lserver>
    <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>
                <storagePool>[The resource name of the storage pool]</storagePool>
            </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>
        <maxDefinableMemorySize>[Maximum amount of memory]</maxDefinableMemorySize>
        <memoryHotPlug>[Memory hot plug]</memoryHotPlug>
        <numOfCpu>[Number of CPUs]</numOfCpu>
        <requestCpuPerf>[Requested CPU performance]</requestCpuPerf>
    </lserver>
</lserver>

```

```

<requestMemorySize>[Requested memory capacity]</requestMemorySize>
<requestNumOfCpu>[Requested number of CPUs]</requestNumOfCpu>
<sparePool>[The resource name of the spare pool]</sparePool>
<storagePool>[The resource name of the storage pool]</storagePool>
<sysvolSize>[The size of the system volume]</sysvolSize>
<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>
<containerPoolManaged>[Flag to indicate whether it is managed by this product]</
containerPoolManaged>
  <snapshotExist>[Flag to indicate whether a snapshot is on the server]</snapshotExist>
  <priority>[Power priority]</priority>
</lserver>
</lservers>
<lplatformId>[L-Platform ID]</lplatformId>
<lplatformName>[L-Platform name]</lplatformName>
<bladeLogic>[Flag to indicate configuration changes/returns depending on whether BladeLogic
exists]</bladeLogic>
</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

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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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
connector	Description	Connection destination. One of the following values: - none: No connection - intranet: Intranet - internet: Internet - both : Both Internet and intranet  This element will be displayed only if a simple configuration firewall has been set.
	Type	string ASCII
	Number of occurrences	0 or 1
publicips	Description	Element holding the response information for the global IP address.
	Type	None
	Number of occurrences	0 or 1
publicip	Description	Set of global IP address information.
	Type	None
	Number of occurrences	0 or 1
address	Description	IP address
	Type	string UTF-8
	Number of occurrences	0 or 1

Element 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 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	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.
	Type	int
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
resourceId	Description	Network resource ID.
	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.
	Type	UTF-8 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.
	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	UTF-8 string



Element name	Item	Item description
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
serialNo	Description	Serial number. This element will be displayed if a simple configuration has been used.
	Type	int
	Number of occurrences	0 or 1
interfaces	Description	Element holding the response information for the interface information.
	Type	None
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
interface	Description	Set of interface information.
	Type	None
	Number of occurrences	As many as there are interfaces elements (0 or more elements for each interfaces element).
name	Description	Interface name.
	Type	UTF-8 string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
networkId	Description	Network ID.
	Type	ASCII string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Firewall ruleset.
	Type	None
	Number of occurrences	As many as there are firewall elements (0 or 1 element for each firewall element).
name	Description	Ruleset name.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
description	Description	Ruleset description.
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
designtype	Description	UI type. One of the following: - UserCustomize: User customization - Simple: Simple configuration
	Type	string ASCII
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
deviceModel	Description	Network device model.
	Type	string UTF-8

Element name	Item	Item description
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
maxAccessRuleSetting	Description	Maximum number of access rules that can be handled by the ruleset.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
maxProvision	Description	Maximum number of firewalls that can be deployed to a network device according to the ruleset.
	Type	int
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameters	Description	Element holding the response information for the ruleset parameter information.
	Type	None
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameter	Description	Set of ruleset 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	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Parameter display flag.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
required	Description	Specify whether parameter values must be specified using one of the following: - true: required - false: optional
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
description	Description	Parameter information description.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).

Element name	Item	Item description
syntax	Description	Parameter syntax.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
parametergroups	Description	Element holding the response information for the parameter group information of the ruleset.
	Type	None
	Number of occurrences	0 or 1
parametergroup	Description	Set of parameter group information.
	Type	None
	Number of occurrences	0 or more
name	Description	Parameter group name.
	Type	string UTF-8
	Number of occurrences	0 or 1
id	Description	Parameter group ID.
	Type	string ASCII
	Number of occurrences	0 or 1
parameters	Description	Element holding the response information for the parameter information of the ruleset.
	Type	None
	Number of occurrences	0 or 1
parameter	Description	Set of parameter information.
	Type	None
	Number of occurrences	0 or more
name	Description	Parameter information name.
	Type	string ASCII
	Number of occurrences	0 or 1
view	Description	Parameter display flag.
	Type	string ASCII
	Number of occurrences	0 or 1
required	Description	Specify whether parameter values must be specified, using one of the following: - true : required - false : optional
	Type	string ASCII
	Number of occurrences	0 or 1
value	Description	Parameter value
	Type	string ASCII
	Number of occurrences	0 or 1
description	Description	Parameter information description
	Type	string ASCII

Element name	Item	Item description
	Number of occurrences	0 or 1
summary	Description	Parameter summary
	Type	string ASCII
	Number of occurrences	0 or 1
syntax	Description	Parameter syntax
	Type	string ASCII
	Number of occurrences	0 or 1
slbs	Description	Element holding the response information for the server load balancer.
	Type	None
	Number of occurrences	0 or 1
slb	Description	Set of server load balancer information.
	Type	None
	Number of occurrences	0 or more
name	Description	Server load balancer name.
	Type	UTF-8 string
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
interfaces	Description	Element holding the response information for the interface information.
	Type	None
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
interface	Description	Set of interface information.
	Type	None
	Number of occurrences	As many as there are interfaces elements (0 or more elements for each interfaces element).
name	Description	Interface name
	Type	UTF-8 string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
networkId	Description	Network ID
	Type	ASCII string
	Number of occurrences	As many as there are interface elements (0 or 1 element for each interface element).
ruleset	Description	Server load balancer ruleset.
	Type	None
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
name	Description	Ruleset name.
	Type	UTF-8 string

Element name	Item	Item description
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
description	Description	Ruleset description
	Type	UTF-8 string
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameters	Description	Element holding the response information for the parameter information of the ruleset.
	Type	None
	Number of occurrences	As many as there are ruleset elements (0 or 1 element for each ruleset element).
parameter	Description	Set of parameter information of the ruleset.
	Type	None
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
name	Description	Parameter information name.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
view	Description	Show or hide parameter.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
required	Description	Specify whether parameter values must be specified using one of the following: - true: required - false: optional
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
value	Description	Parameter value.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
description	Description	Parameter information description.
	Type	UTF-8 string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
syntax	Description	Parameter syntax.
	Type	ASCII string
	Number of occurrences	As many as there are parameter elements (0 or 1 element for each parameter element).
operations	Description	Element holding the response information for the operation information.

Element name	Item	Item description
	Type	None
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
operation	Description	Set of operation information.
	Type	None
	Number of occurrences	0 or more.
operationId	Description	Operation ID. Specify when executing GetOperationResult.
	Type	ASCII string
	Number of occurrences	As many as there are operation elements (0 or 1 element for each operation element).
status	Description	Operation status.
	Type	ASCII string
	Number of occurrences	As many as there are operation elements (0 or 1 element for each operation element).
rulesetName	Description	Ruleset name.
	Type	UTF-8 string
	Number of occurrences	As many as there are operation elements (0 or 1 element for each operation element).
operationLogExist	Description	This flag indicates whether there are operation logs that have not been acquired. It will be one of the following: - true: There are operation logs that have not been acquired. - false: There are no operation logs that have not been acquired.  Operation is not possible if this is "true".
	Type	ASCII string
	Number of occurrences	As many as there are slb elements (0 or 1 element for each slb element).
lserver	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).

Element name	Item	Item description
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	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).
sparePool	Description	The resource name of the spare pool.
	Type	UTF-8 string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each disk element).
storagePool	Description	The resource name of the storage pool.

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).
nics	Description	Element holding the response information for the NIC information.
	Type	None
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
nic	Description	Set of NIC information.
	Type	None
	Number of occurrences	0 or more
networkId	Description	Network ID.
	Type	ASCII string
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
nicNo	Description	NIC serial number.
	Type	int
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
privateIp	Description	IP address.
	Type	ASCII string
	Number of occurrences	As many as there are nic elements (0 or 1 element for each nic element).
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.



Element name	Item	Item description
	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	ASCII string
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
privateIp	Description	IP address.
	Type	ASCII string
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
management	Description	Control NIC. The value is "1" if the NIC is a control NIC. Otherwise, the value is "0".
	Type	int
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
lserverId	Description	Server ID.
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverName	Description	Server name.
	Type	UTF-8 string
	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	UTF-8 string
	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": RHEL-Xen. - "Hyper-V": Hyper-V. - "RHEL-KVM": RHEL-KVM - "Solaris Containers": Solaris Zones
	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

Element name	Item	Item description
	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).
maxDefinableMemorySize	Description	Maximum amount of memory. It indicates the maximum amount of memory that can be allocated for memory hot plug-enabled KVM servers.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memoryHotPlug	Description	Memory hot plug. If it is enabled on a KVM server, the memory size can be changed without powering off. - true: enabled - false: disabled  When memory hot plug is enabled, the maximum amount of memory that can be changed is limited to the least of the following:  MAXDefinableMemorySize "Maximum memory" of the image information Physical memory size of the VM host
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
memorySize	Description	Amount of memory.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
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).

Element name	Item	Item description
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).
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).
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).
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).
containerPoolManaged	Description	Flag indicating whether the container resource pool where the server operates is managed by this product. This is one of the following:

Element name	Item	Item description
		true: Managed false: Not managed
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
snapshotExist	Description	Flag indicating whether a snapshot exists on the server. This is one of the following: - true: Snapshot exists - false: Snapshot does not exist
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
sysvolSize	Description	The size of the system volume.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lplatformId	Description	L-Platform ID.
	Type	ASCII string
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lserver 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 lserver element).
bladeLogic	Description	Either of the following flags can be specified to indicate whether reconfiguration or return can be performed in case there are any Solaris Zone or OVM for SPARC servers: true: The L-Platform does not have Solaris Zone or OVM for SPARC servers, or reconfiguration or return can be performed even if the L-Platform has Solaris Zone or OVM for SPARC servers. false: The L-Platform has Solaris Zone or OVM for SPARC servers, and reconfiguration or return cannot be performed.
	Type	ASCII string
	Number of occurrences	As many as there are lplatform elements (0 or 1 element for each lserver element).

### Sample response

```
<?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>
  </lplatform>
</GetLPlatformConfigurationResponse>
```

```

<firewalls>
  <firewall>
    <interfaces>
      <interface>
        <name>network-param-0001</name>
        <networkId>800NW7TZV-N-lot2#FWS#</networkId>
      </interface>
      <interface>
        <name>network-param-0002</name>
        <networkId>800NW7TZV-N-lot4#FWS#</networkId>
      </interface>
    </interfaces>
    <name>Firewall</name>
    <ruleset>
    <desigintype>UserCustomize</desigintype>
    <description>ruleset-1</description>
    <name>rule1</name>
    <parameters>
      <parameter>
        <description>parameter-1</description>
        <name>param_var_001</name>
        <value>200</value>
        <view>false</view>
        <syntax>INTEGER(1..256)</syntax>
        <required>true</required>
        <summary>Parameter 1 summary</summary>
      </parameter>
      <parameter>
        <description>parameter-2</description>
        <name>param_var_002</name>
        <value/>
        <view>true</view>
        <syntax>DisplayString(SIZE(0..255))</syntax>
        <required>true</required>
        <summary>Parameter 2 summary</summary>
      </parameter>
      <parameter>
        <description>parameter-3</description>
        <name>param_var_003</name>
        <value>400</value>
        <view>true</view>
        <syntax>INTEGER(1..256)</syntax>
        <required>true</required>
        <summary>Parameter 3 summary</summary>
      </parameter>
    </parameters>
  </ruleset>
</firewall>
</firewalls>
<slbs>
  <slb>
    <interfaces>
      <interface>
        <name> network-param-0003</name>
        <networkId>800NW7TZV-N-lot2#FWS#</networkId>
      </interface>
      <interface>
        <name>network-param-0004</name>
        <networkId>800NW7TZV-N-lot4#FWS#</networkId>
      </interface>
    </interfaces>
    <name>SLB1</name>
    <ruleset>

```

```

<description>ruleset</description>
<name>slb_rule1</name>
<parameters>
  <parameter>
    <description>parameter1</description>
    <name>param_var_001</name>
    <value>200</value>
    <view>false</view>
    <syntax>INTEGER(1..256)</syntax>
    <required>true</required>
    <summary>Parameter 1 summary</summary>
  </parameter>
  <parameter>
    <description>parameter2</description>
    <name>param_var_002</name>
    <value/>
    <view>true</view>
    <syntax>DisplayString(SIZE(0..255))</syntax>
    <required>true</required>
    <summary>Parameter 2 summary</summary>
  </parameter>
  <parameter>
    <description>parameter3</description>
    <name>param_var_003</name>
    <value>400</value>
    <view>true</view>
    <syntax>INTEGER(1..256)</syntax>
    <required>true</required>
    <summary>Parameter 3 summary</summary>
  </parameter>
</parameters>
</ruleset>
<operations>
  <operation>
    <operationId>taskROR_002</operationId>
    <status>completed</status>
    <rulesetName>slb_rule1</rulesetName>
  </operation>
</operations>
<operationLogExist>>false</operationLogExist>
</slb>
</slbs>
<networks>
  <network>
    <name>network-param-0001</name>
    <networkCategory>BUSINESS</networkCategory>
    <networkId>800NW7TZV-N-lot2#FWS#</networkId>
    <numOfMaxVm>10</numOfMaxVm>
    <resourceId>mngsrv_1234</resourceId>
  </network>
  <network>
    <name>network-param-0002</name>
    <networkCategory>BUSINESS</networkCategory>
    <networkId>800NW7TZV-N-lot4#FWS#</networkId>
    <numOfMaxVm>10</numOfMaxVm>
    <resourceId>mngsrv_1235</resourceId>
  </network>
</networks>
<lserver>
  <lserver>
    <cpuPerf>1.0</cpuPerf>
    <creator>tenantA</creator>
    <diskimageId>image-1324e093f4e</diskimageId>
  </lserver>
</lserver>

```

```

<diskimageName>g-physical-0001</diskimageName>
<hostName>V800NW7TZV0001</hostName>
<memorySize>2.0</memorySize>
<numOfCpu>2</numOfCpu>
<requestCpuPerf>1.4</requestCpuPerf>
<requestMemorySize>2.0</requestMemorySize>
<requestNumOfCpu>1</requestNumOfCpu>
<sparePool>/SparePool</sparePool>
<storagePool>/StoragePool</storagePool>
<sysvolSize>100</sysvolSize>
<lserverType>Physical</lserverType>
<disks/>
<vmPool>/ServerPool</vmPool>
<nics>
  <nic>
    <management>0</management>
    <networkId>800NW7TZV-N-lot2#FWS#</networkId>
    <nicNo>2</nicNo>
    <privateIp>192.xxx.xxx.xxx</privateIp>
  </nic>
  <nic>
    <management>1</management>
    <networkId>800NW7TZV-N-lot2#FWS#</networkId>
    <nicNo>1</nicNo>
    <privateIp>192.xxx.xxx.xxx</privateIp>
  </nic>
</nics>
<lserverId>tenantA-800NW7TZV-S-0001</lserverId>
<lserverName>lserver-1</lserverName>
<lserverStatus>RUNNING</lserverStatus>
<serverType>Economy</serverType>
<resource>
  <name>tenantA-800NW7TZV-S-0001</name>
</resource>
<snapshotExist>>false</snapshotExist>
</lserver>
<lserver>
  <cpuPerf>1.2</cpuPerf>
  <creator>tenantA</creator>
  <diskimageId>image-1324e09f82f</diskimageId>
  <diskimageName>g-vm-0002</diskimageName>
  <hostName>V800NW7TZV0002</hostName>
  <memorySize>1.6</memorySize>
  <numOfCpu>1</numOfCpu>
  <storagePool>/StoragePool</storagePool>
  <sysvolSize>100</sysvolSize>
  <lserverType>Virtual</lserverType>
  <disks/>
  <vmPool>/VMHostPool</vmPool>
  <vmType>VMware</vmType>
  <nics>
    <nic>
      <management>0</management>
      <networkId>800NW7TZV-N-lot4#FWS#</networkId>
      <nicNo>3</nicNo>
      <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
    <nic>
      <management>0</management>
      <networkId>800NW7TZV-N-lot4#FWS#</networkId>
      <nicNo>2</nicNo>
      <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
  </nics>

```

```

    <nic>
      <management>1</management>
      <networkId>800NW7TZV-N-1ot4#FWS#</networkId>
      <nicNo>1</nicNo>
      <privateIp>192.xxx.xxx.xxx</privateIp>
    </nic>
  </nics>
  <lserverId>tenantA-800NW7TZV-S-0002</lserverId>
  <lserverName>lserver-1</lserverName>
  <lserverStatus>RUNNING</lserverStatus>
  <serverType>over_commit</serverType>
  <resource>
    <name>tenantA-800NW7TZV-S-0002</name>
  </resource>
  <snapshotExist>>false</snapshotExist>
</lserver>
</lservers>
<lplatformId>tenantA-800NW7TZV</lplatformId>
<lplatformName>firewall-test</lplatformName>
<bladeLogic>>true</bladeLogic>
</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
	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.



## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
GetLPlatformAttributesResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly.  Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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

Element name	Item	Item description
creator	Description	The tenant name of the person who created the L-Platform.
	Type	ASCII string
	Number of occurrences	0 or 1
ownerUser	Description	The user ID of the person who owns the L-Platform.
	Type	ASCII string
	Number of occurrences	0 or 1
description	Description	L-Platform description.
	Type	UTF-8 string.
	Number of occurrences	0 or 1
lplatformId	Description	L-Platform ID.
	Type	ASCII string
	Number of occurrences	0 or 1
lplatformName	Description	L-Platform name.
	Type	UTF-8 string
	Number of occurrences	0 or 1

### Sample response

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

## 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.

Parameter name	Item	Item description
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.

## 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>
      <numOfMaxVm>[Maximum number of VMs]</numOfMaxVm>
      <resourceId>[Network resource ID]</resourceId>
      <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.
	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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).

Element name	Item	Item description
resourceId	Description	Network resource ID.
	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.
	Type	UTF-8 string
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
addressSet	Description	Set of address set information.
	Type	None
	Number of occurrences	As many as there are network elements (0 or 1 element for each network element).
name	Description	Address set name.
	Type	UTF-8 string
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
subnet	Description	The subnet address of the address set.
	Type	ASCII string
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
mask	Description	The netmask of the address set.
	Type	ASCII string
	Number of occurrences	As many as there are addressSet elements (0 or 1 element for each addressSet element).
start	Description	The leading address of the address set.
	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

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

## Sample response

```
<?xml 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>
      <resourceId>mngsrv_1234</resourceId>
      <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>
  <numOfMaxVm>10</numOfMaxVm>
  <resourceId>mngsrv_1235</resourceId>
</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.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.



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

## 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
	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

### 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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".

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 "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.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
StopTenantLServersResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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>
```

## 2.2.13 CreateNetwork (Add Network Segment to L-Platform)

This API adds a network segment to an L-Platform.

The network segment being added must be registered beforehand.

An automatically selected segment is added when resourceId is omitted.

Specify networkCategory when resourceId is not specified. A segmentType can be omitted.

Do not specify networkCategory and segmentType when resourceId is specified.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### 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 "CreateNetwork".
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	ID of the L-Platform to which the network is to be added.
	Type	ASCII string
	Value	No more than 32 characters.
[resourceId]	Description	Resource ID of the network to be added.
	Type	ASCII string

Parameter name	Item	Item description
	Value	No more than 31 characters. Specify this if a networkCategory has not been specified.
numOfMaxNic	Description	Maximum number of NICs.
	Type	ASCII string
	Value	Specify the maximum number of NICs that can be added to a network segment. Do not specify a value more than the maximum number of NICs in a segment (the default value is 30), if possible. Refer to "8.5.10 Settings for the Maximum Number of Connections for the L-Platform Template" in the "Operation Guide CE" for information on the maximum number of NICs in a segment.
[networkCategory]	Description	Network type. A network segment of the specified network type is added.
	Type	ASCII string
	Value	Specify one of the following: - MANAGEMENT: Management segment - BUSINESS: Business segment Specify this if a resourceId has not been specified.
[segmentType]	Description	Segment identifier information. A network segment of the matching network resource is added.
	Type	ASCII string
	Value	No more than 32 characters. If the resourceId parameter is omitted, this parameter can be specified.
[name]	Description	Network name. Specify a name to be set for the network.
	Type	ASCII string
	Value	No more than 20 characters. If this parameter is omitted, the following name will be specified. - If resourceId is specified: A network resource name - If networkCategory is specified: AUTOX (X: A serial number starting from 1)

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
CreateNetworkResponse	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 "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
networkId	Description	Added network ID.
	Type	ASCII string
	Number of occurrences	1

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateNetworkResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <networkId>6MVU2R3NQ-N-SEGMENT1</networkId>
</CreateNetworkResponse>
```

## 2.2.14 DestroyNetwork (Delete a Specified Network Segment from an L-Platform)

This API deletes a specified network segment from an L-Platform.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### 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

Parameter name	Item	Item description
	Value	Fixed. Specify "DestroyNetwork".
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	ID of the L-Platform from which the network is to be deleted.
	Type	ASCII string
	Value	No more than 32 characters.
networkId	Description	Network ID to be deleted.
	Type	ASCII string
	Value	No more than 32 characters.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
DestroyNetworkResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1.



## Sample response

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

## 2.2.15 UpdateFirewallConfiguration(Modify Firewall Configuration)

This API modifies the firewall configuration.

Parameters that are not modified may be omitted.

This API supports only the POST method.



This API does not enable you to change the settings for a firewall that does not use a ruleset.

### Request body

<XML>

```
<Request>
  <param name="Version">[Version ID]</param>
  <param name="Locale">[Locale ID]</param>
  <param name="Action">[Action ID]</param>
  <param name="userId">[User ID]</param>
  <param name="orgId">[Tenant ID]</param>
  <param name="lplatformId">[L-Platform ID]</param>
  <Body>
    <firewall>
      <ruleset>
        <parameters>
          <parameter>
            <name>[Parameter name]</name>
            <value>[Parameter Value]</value>
          </parameter>
          ...
        </parameters>
      </ruleset>
    </firewall>
  </Body>
</Request>
```

<Parameter>

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	Fixed. Select "en": English.
Action	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string
	Value	Fixed. Specify "UpdateFirewallConfiguration".
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.
L-Platform ID	Description	L-Platform ID.
	Type	ASCII string
	Value	No more than 32 characters.
parameter name	Description	Name of parameter to be modified. Specify the name of the parameter in the target firewall that was obtained by GetLPlatformConfiguration. The name may differ to the one displayed in the window.
	Type	ASCII string
	Value	The characters <, >, &, ', ", and linefeeds cannot be specified.
parameter value	Description	Value of the parameter after modification.
	Type	ASCII string
	Value	The characters <, >, &, ', ", and linefeeds cannot be specified.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
UpdateFirewallConfigurationResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1

### Sample response

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

## 2.2.16 UpdateSLBConfiguration(Modify Server Load Balancer Configuration)

This API modifies the server load balancer configuration.

Parameters that are not modified may be omitted.

This API supports only the POST method.

### Request body

<XML>

```
<Request>
  <param name="Version">[Version ID]</param>
  <param name="Locale">[Locale ID]</param>
  <param name="Action">[Action ID]</param>
  <param name="userId">[User ID]</param>
  <param name="orgId">[Tenant ID]</param>
  <param name="lplatformId">[L-Platform ID]</param>
  <Body>
    <slb>
      <name>[Server load balancer name]</name>
      <ruleset>
        <parameters>
          <parameter>
            <name>[Parameter name]</name>
            <value>[Parameter value]</value>
          </parameter>
          ...
        </parameters>
      </ruleset>
    </slb>
  </Body>
</Request>
```

<Parameter>

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 "UpdateSLBConfiguration".
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.
L-Platform ID	Description	L-Platform ID
	Type	ASCII string
	Value	No more than 32 characters.
Server load balancer name	Description	Server load balancer name.
	Type	ASCII string
	Value	No more than 32 characters.
parameter name	Description	Name of parameter to be modified. Specify the name of the parameter in the target firewall that was obtained by GetLPlatformConfiguration. The name may differ to the one displayed in the window.
	Type	ASCII string
	Value	The characters <, >, &, ', ", and linefeeds cannot be specified.
parameter value	Description	Value of the parameter after modification.
	Type	ASCII string
	Value	The characters <, >, &, ', ", and linefeeds cannot be specified.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
UpdateSLBConfigurationResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1

### Sample response

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

## 2.2.17 OperateSLB(Operate Server Load Balancer)

This API executes server load balancer operations.

If there are operation logs that have not been acquired, operations cannot be performed.

It is necessary to specify all parameters defined in the ruleset.

This API supports only the POST method.

### Request body

<XML>

```
<Request>
  <param name="Version">[Version ID]</param>
  <param name="Locale">[Locale ID]</param>
  <param name="Action">[Action ID]</param>
  <param name="userId">[User ID]</param>
  <param name="orgId">[Tenant ID]</param>
  <param name="lplatformId">[L-Platform ID]</param>
  <Body>
    <slb>
      <name>[Server load balancer name]</name>
    <ruleset>
      <name>[Ruleset name]</name>
      <parameters>
        <parameter>
          <name>[Parameter name]</name>
```

```

        <value>[Parameter value]</value>
    </parameter>
    ...
</parameters>
</ruleset>
</slb>
</Body>
</Request>

```

<Parameter>

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 "UpdateSLBConfiguration".
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.
L-Platform ID	Description	L-Platform ID.
	Type	ASCII string
	Value	No more than 32 characters.
Server load balancer name	Description	Server load balancer name.
	Type	ASCII string
	Value	No more than 32 characters.
Ruleset name	Description	Ruleset name.
	Type	ASCII string
	Value	No more than 32 characters.
Parameter name	Description	Name of the parameter of the server load balancer executing the operation. Specify the name of the parameter in the target ruleset that was obtained by GetRulesetConfiguration. The name may differ to the one displayed in the window.
	Type	ASCII string
	Value	The characters <, >, &, ', ", and linefeeds cannot be specified.
Parameter value	Description	Value of the parameter executing the operation.
	Type	ASCII string

Parameter name	Item	Item description
	Value	The characters <, >, &, ', ", and linefeeds cannot be specified.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
OperateSLBResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
operationId	Description	Operation ID. Specify when executing GetOperationResult.
	Type	None.
	Number of occurrences	1

## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<OperateSLBResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <taskIdoperationId>ROR_001</taskIdoperationId>
</OperateSLBResponse>
```

## 2.2.18 GetOperationResult (Obtain Operation Log)

This API obtains the operation logs for the network device.

### 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 ".1.11GetOperationResult".
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 API ID
	Type	ASCII string
	Value	No more than 32 characters.
rulesetName	Description	Ruleset name.
	Type	ASCII string
	Value	No more than 32 characters.
operationId	Description	Operation ID Specify an ID of an operation in a server load balancer that was obtained by GetLPlatformConfiguration or an ID of an operation obtained by OperateSLB.
	Type	ASCII string
	Value	No more than 32 characters.

### Response

<Status code>

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

<XML>

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



```
<result>[Operation execution results]</result>
</GetOperationResultResponse>
```

<Elements>

Element name	Item	Item description
OperateSLBResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
result	Description	Operation execution results.
	Type	UTF-8 string
	Number of occurrences	1

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetOperationResultResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <result>
-----
dist-rule class-map
  dist-mode
    real/type backup-priority
      state of real    state of real port    connection timeout
-----
                                up/active      --                0          --
-----
  </result>
</GetOperationResultResponse>
```

## 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.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.



### Note

When creating a physical server, only two APIs can be executed simultaneously, due to the limitations of the hardware that is set. When creating more than two physical servers, leave some time between the executions of this API.

### Request parameters

Parameter name	Item	Item description
Version	Description	The version ID of the L-Platform API.
	Type	ASCII string
	Value	Fixed. Specify "2.0".
Locale	Description	The language for communicating with the L-Platform API. This parameter is specified using the language codes stipulated by ISO 639.
	Type	ASCII string
	Value	Select the following values: - "en": English.
Action	Description	The name of the L-Platform API to be executed.
	Type	ASCII string
	Value	Fixed. Specify "CreateLServer".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string
	Value	No more than 32 characters.
lserverName	Description	Server name
	Type	UTF-8 string
	Value	No more than 85 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "
serverType	Description	Server type.
	Type	ASCII string
	Value	No more than 32 characters.
[lserverType]	Description	Server type.

Parameter name	Item	Item description
	Type	ASCII string
	Value	Specify one of the following: - "Physical": Physical server. - "Virtual": Virtual server.  If this parameter is omitted, the default value is "Virtual".
diskImageId	Description	Disk image ID.
	Type	ASCII string
	Value	No more than 32 characters.
controlNetworkId	Description	The ID of the network connected to the control NIC.
	Type	ASCII string
	Value	If a physical server is to be created, the network ID of the management LAN must be specified. When specifying the IP address of the control NIC, specify the network ID using the following format:  controlNetworkId=network_id'xxx:xxx:xxx:xxx
[networkId]	Description	The ID of a network other than the control NIC.
	Type	ASCII string
	Value	If there are multiple NICs, specify the network ID using the following format:  networkId=network_1'network_2  When specifying the IP address, specify the network ID using the following format:  networkId=network_1'xxx:xxx:xxx:xxx'network_2'xxx:xxx:xxx:xxx
[pool]	Description	The resource name of the VM pool or server pool.
	Type	ASCII string
	Value	If a tenant pool is to be used, the full path name must be used to specify the pool name. This must be specified when using RHEL-KVM.  Example: /tenantA/pool
[storagePool]	Description	The resource name of the storage pool.
	Type	ASCII string
	Value	If a tenant pool is to be used, the full path name must be used to specify the pool name. This must be specified when using RHEL-KVM.  Example: /tenantA/pool
[cpuPerf]	Description	CPU performance.  The value must be specified in GHz, up to one decimal place. Specify a value that is no less than 0.1 and no more than the maximum value specified by the image (or no more than 99999.9 if the maximum value has not been specified).  This is ignored even if it is specified when using RHEL-KVM, and the maximum CPU performance value for the pool is set.
	Type	decimal
	Value	0.1 to 99999.9
[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).

Parameter name	Item	Item description
[cpuReserve]	Description	Reserved CPU performance. Specify a value that is no less than 0.0 and no more than the maximum value specified by either cpuPerf or the image (or no more than 99999.9 if neither of these have been specified).
	Type	decimal
	Value	0.0 to 99999.9.
[cpuShare]	Description	CPU allotment ratio. [When VM type is VMware] CPU Shares. [When VM type is Hyper-V] CPU Weight. For physical servers, this will be ignored even if specified.
	Type	int
	Value	1 to 1000000. [When VM type is VMware] 1 to 1000000. [When VM type is Hyper-V] 1 to 10000.
[memorySize]	Description	Amount of memory. The value must be specified in GB, up to one decimal place. Specify a value that is no less than 0.1 and no more than the maximum value specified by the image (or no more than 99999.9 if the maximum value has not been specified).
	Type	decimal
	Value	0.1 to 99999.9
[memoryReserve]	Description	Reserved memory capacity. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). [When VM type is VMware] Reserved memory capacity. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). [When VM type is Hyper-V] Reserved memory capacity. Specify a value that is no less than 0.1 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified). For physical servers, this will be ignored even if specified.
	Type	decimal
	Value	0.0 to 99999.9. [When VM type is VMware] 0.0 to 99999.9. [When VM type is Hyper-V] 0.1 to 99999.9.
[memoryShare]	Description	Memory allotment ratio. [When VM type is VMware] Memory Shares. [When VM type is Hyper-V] Memory Weight. For physical servers, this will be ignored even if specified.
	Type	int
	Value	0 to 1000000. [When VM type is VMware] 0 to 1000000. [When VM type is Hyper-V] 0 to 10000.

Parameter name	Item	Item description
[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

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
CreateLServerResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
lserverId	Description	Server ID
	Type	ASCII string

Element name	Item	Item description
	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.

### Response

<Status code>

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

<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>
      <containerPoolManaged>[Flag to indicate whether it is managed by this product]</
containerPoolManaged>
      <snapshotExist>[Flag to indicate whether a snapshot is on the server]</snapshotExist>
    </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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
lservers	Description	Element holding the response information for the server information.

Element name	Item	Item description
	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
	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).



Element name	Item	Item description
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	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
	Number of occurrences	As many as there are resource elements (0 or 1 element for each resource element).
containerPoolManaged	Description	Flag indicating whether the container resource pool where the server operates is managed by this product. This is one of the following: - true: Managed - false: Not managed
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
snapshotExist	Description	Flag indicating whether a snapshot exists on the server. This is one of the following: - true: Snapshot exists - false: Snapshot does not exist
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<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-800NW7TZV-S-0001</lserverId>
      <lserverName>Pysical-1</lserverName>
      <serverType>Economy</serverType>
      <resource>
        <name>tenantA-800NW7TZV-S-0001</name>
      </resource>
      <snapshotExist>false</snapshotExist>
    </lserver>
    <lserver>
      <creator>tenantA</creator>
      <diskimageId>image-1324e09f82f</diskimageId>
      <diskimageName>g-vm-0002</diskimageName>
      <lserverType>Virtual</lserverType>
      <disks>
        <disk>
          <attachedTo>tenantA-800NW7TZV-S-0002</attachedTo>
          <creator>tenantA</creator>
          <size>20.0</size>
          <diskId>tenantA-800NW7TZV-D-0001</diskId>
          <diskName>DISK1</diskName>
        </disk>
      </disks>
      <lserverId>tenantA-800NW7TZV-S-0002</lserverId>
      <lserverName>Virtual-1</lserverName>
      <serverType>over_commit</serverType>
      <resource>
        <name>tenantA-800NW7TZV-S-0002</name>
      </resource>
      <snapshotExist>true</snapshotExist>
    </lserver>
  </lservers>
</ListLServerResponse>
```

## 2.3.3 DestroyLServer (Deletes Server)

This API removes a server.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### Request parameters

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

Parameter name	Item	Item description
	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 "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.
[force]	Description	Flag indicating whether servers that are distribution targets for the server load balancer will be forcibly deleted.
	Type	ASCII string
	Value	Specify one of the following: - true: Forcibly deletes - false: Does not forcibly delete  If omitted, "false" will be used.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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".
userId	Description	The user ID of the user that executes the L-Platform API.

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

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
RestoreLServerResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.

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

### Sample response

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

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1

## Sample response

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

## 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

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 "StopLServer".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string
	Value	No more than 32 characters.
lserverId	Description	Server ID
	Type	ASCII string
	Value	No more than 32 characters.
[force]	Description	This parameter indicates whether to forcibly terminate the server. If this parameter is omitted, the default value is "false".
	Type	ASCII string
	Value	Select one of the following values: - "true": Forcibly terminates the virtual machine. - "false": Does not forcibly terminate the virtual machine.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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

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

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

Element name	Item	Item description
		<ul style="list-style-type: none"> <li>- "RUNNING": The server is running.</li> <li>- "STOPPING": The server is stopping.</li> <li>- "STOPPED": The server is stopped.</li> <li>- "STARTING": The server is starting.</li> <li>- "UNEXPECTED_STOP": The server has stopped unexpectedly.</li> <li>- "RESTORING": The server is being restored.</li> <li>- "BACKUP_ING": The server is being backed up.</li> <li>- "ERROR": An error has occurred on the server.</li> <li>- "EXECUTE_IPCOM": Configuration information for an IPCOM network server is being processed.</li> <li>- "START_ERROR": An error has occurred when the server is starting.</li> <li>- "STOP_ERROR": An error has occurred when the server is stopping.</li> </ul>
	Type	ASCII string
	Number of occurrences	0 or 1

### Sample response

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

## 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.

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

## 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>
      <maxCpuPerf>[Maximum CPU performance]</maxCpuPerf>
      <maxDiskSize>[Maximum amount of disk space]</maxDiskSize>
      <maxMemorySize>[Maximum amount of memory]</maxMemorySize>
      <maxSysvolSize>[Maximum capacity of system disk]</maxSysvolSize>
      <numOfMaxCpu>[Maximum number of CPUs]</numOfMaxCpu>
      <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>
        </patch>
      </patches>
    </lserver>
  </GetLServerConfigurationResponse>
</XML>
```

```

        <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>
        <storagePool>[The resource name of the storage pool]</storagePool>
    </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>
<sysvolSize>[The size of the system volume]</sysvolSize>
<lserverType>[Server type]</lserverType>
<resource>
    <name>[L-Server name]</name>
</resource>
<containerPoolManaged>[Flag to indicate whether it is managed by this product]</
containerPoolManaged>
<snapshotExist>[Flag to indicate whether a snapshot is on the server]</snapshotExist>
<vmType>[VM type]</vmType>
<pool>[Resource name of the VM pool]</pool>
<storagePool>[Resource name of the storage pool]</storagePool>
<sparePool>[The resource name of the spare pool]</sparePool>
<cpuPerf>[CPU performance]</cpuPerf>
<numOfCpu>[Number of CPUs]</numOfCpu>
<cpuReserve>[CPU reserve performance]</cpuReserve>
<cpuShare>[CPU allotment ratio]</cpuShare>
<maxDefinableMemorySize>[Maximum amount of memory]</maxDefinableMemorySize>
<memoryHotPlug>[Memory hot plug]</memoryHotPlug>
<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
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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

Element name	Item	Item description
	Type	ASCII string
	Number of occurrences	0 or 1
id	Description	Image ID.
	Type	ASCII string
	Number of occurrences	0 or 1
numOfMaxCpu	Description	Maximum number of CPUs.
	Type	int
	Number of occurrences	0 or 1
maxCpuPerf	Description	Maximum CPU performance.
	Type	decimal
	Number of occurrences	0 or 1
maxDiskSize	Description	Maximum amount of disk space.
	Type	decimal
	Number of occurrences	0 or 1
maxMemorySize	Description	Maximum amount of memory.
	Type	decimal
	Number of occurrences	0 or 1
maxSysvolSize	Description	Maximum capacity of system disk.
	Type	decimal
	Number of occurrences	0 or 1
numOfMaxDisk	Description	Maximum number of disks.
	Type	int
	Number of occurrences	0 or 1
numOfMaxNic	Description	Maximum number of NICs.
	Type	int
	Number of occurrences	0 or 1
serverApplication	Description	Server usage. One of the following values: - "WEB": Web server. - "AP": Application server. - "DB": Database server. - "FILE": File server.
	Type	ASCII string
	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

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



Element name	Item	Item description
patch	Description	Set of patch information.
	Type	None
	Number of occurrences	0 or more
softwareId	Description	Software ID.
	Type	ASCII string
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
patchId	Description	Patch ID.
	Type	ASCII string
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
componentName	Description	Component name.
	Type	UTF-8 string
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
description	Description	Patch description.
	Type	UTF-8 string
	Number of occurrences	As many as there are patch elements (0 or 1 element for each patch element).
sysvolSize	Description	The size of the system volume.
	Type	decimal
	Number of occurrences	0 or 1
disks	Description	Element holding the response information for the additional disk information.
	Type	None
	Number of occurrences	0 or 1
disk	Description	Set of additional disk information.
	Type	None
	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).

Element name	Item	Item description
diskId	Description	The ID of the additional disk.
	Type	ASCII string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskName	Description	The name of the additional disk.
	Type	UTF-8 string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
resourceName	Description	The name of the existing disk. This element will be displayed for existing disks only.
	Type	UTF-8 string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
shared	Description	The shared disk attribute.
	Type	ASCII string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
storagePool	Description	The resource name of the storage pool.
	Type	ASCII string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
nics	Description	Element holding the response information for the NIC information.
	Type	None
	Number of occurrences	0 or 1
nic	Description	Set of NIC information.
	Type	None
	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

Element name	Item	Item description
	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	ASCII string
	Number of occurrences	As many as there are nicgroup elements (0 or 1 element for each nicgroup element).
privateIp	Description	IP address.
	Type	ASCII string
	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

Element name	Item	Item description
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. - "Solaris Containers": Solaris Zones
	Type	ASCII string
	Number of occurrences	0 or 1
pool	Description	The resource name of the VM pool.
	Type	UTF-8 string
	Number of occurrences	0 or 1
storagePool	Description	The resource name of the storage pool.
	Type	UTF-8 string
	Number of occurrences	0 or 1
sparePool	Description	The resource name of the spare 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
maxDefinableMemorySize	Description	Maximum amount of memory. It indicates the maximum amount of memory that can be allocated for memory hot plug-enabled KVM servers.
	Type	decimal
	Number of occurrences	0 or 1
memoryHotPlug	Description	Memory hot plug. If it is enabled on a KVM server, the memory size can be changed without powering off. - true: enabled - false: disabled

Element name	Item	Item description
		When memory hot plug is enabled, the maximum amount of memory that can be changed is limited to the least of the following: MAXDefinableMemorySize "Maximum memory" of the image information Physical memory size of the VM host
	Type	ASCII string
	Number of occurrences	0 or 1
memorySize	Description	Amount of memory.
	Type	decimal
	Number of occurrences	0 or 1
memoryReserve	Description	Reserved memory capacity.
	Type	decimal
	Number of occurrences	0 or 1
memoryShare	Description	Memory allotment ratio.
	Type	int
	Number of occurrences	0 or 1
requestCpuPerf	Description	Requested CPU performance.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestNumOfCpu	Description	Requested number of CPUs.
	Type	int
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
requestMemorySize	Description	Requested memory capacity.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
lserverType	Description	Server type. One of the following: - "Physical": Physical server. - "Virtual": Virtual server.
	Type	ASCII string
	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.

Element name	Item	Item description
		- "RESTORE": Restore. - "CLONING": Collect the cloning image. - "REMOVE": Remove.
	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.
	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).
containerPoolManaged	Description	Flag indicating whether the container resource pool where the server operates is managed by this product. This is one of the following: - true: Managed - false: Not managed
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
snapshotExist	Description	Flag indicating whether a snapshot exists on the server. This is one of the following: - true: Snapshot exists - false: Snapshot does not exist
	Type	ASCII string

Element name	Item	Item description
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
sysvolSize	Description	The size of the system volume.
	Type	decimal
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).

## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<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>
      <maxCpuPerf>4.0</maxCpuPerf>
      <maxDiskSize>100.0</maxDiskSize>
      <maxMemorySize>8.0</maxMemorySize>
      <maxSysvolSize>200.0</maxSysvolSize>
      <numOfMaxCpu>2</numOfMaxCpu>
      <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>
    <lserverType>Virtual</lserverType>
    <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>
    </nics>
  </lserver>
</GetLServerConfigurationResponse>
```

```

<nic>
  <management>0</management>
  <networkId>N3FY52Z4F-N-3seq#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-vm1</lserverName>
<serverType>over_commit</serverType>
<sysvolSize>100</sysvolSize>
<resource>
  <name>tenantA-N3FY52Z4F-S-0001</name>
</resource>
<snapshotExist>true</snapshotExist>
</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



Parameter name	Item	Item description
	Value	No more than 32 characters.
lserverId	Description	Server ID
	Type	ASCII string
	Value	No more than 32 characters.

## 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
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

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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
lserver	Description	Set of server information.
	Type	None
	Number of occurrences	0 or 1
creator	Description	The tenant name of the person who created the server.
	Type	ASCII string
	Number of occurrences	As many as there are lserver elements (0 or 1 element for each lserver element).
diskimageId	Description	Disk image ID.
	Type	ASCII string
	Number of occurrences	0 or 1
diskimageName	Description	Disk image name.
	Type	ASCII string
	Number of occurrences	0 or 1
disks	Description	Element holding the response information for the additional disk information.
	Type	None
	Number of occurrences	0 or 1
disk	Description	Set of additional disk information.
	Type	None
	Number of occurrences	0 or more
attachedTo	Description	The ID of the virtual machine to which the additional disk has been attached.
	Type	ASCII string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
creator	Description	The tenant name of the person who created the server.
	Type	ASCII string
	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.

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).
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	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).
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 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>V800NW7TZV0002</hostName>
<disks>
  <disk>
    <attachedTo>tenantA-800NW7TZV-S-0002</attachedTo>
    <creator>tenantA</creator>
    <size>20.0</size>
    <diskId>tenantA-800NW7TZV-D-0001</diskId>
    <diskName>DISK1</diskName>
  </disk>
</disks>
<lserverId>tenantA-800NW7TZV-S-0002</lserverId>
<lserverName>Virtual-1</lserverName>
<serverType>over_commit</serverType>
<resource>
  <name>tenantA-800NW7TZV-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".
userId	Description	The user ID of the user that executes the L-Platform API.
	Type	ASCII string
	Value	No more than 31 characters.
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string
	Value	No more than 32 characters.
lplatformId	Description	L-Platform ID.
	Type	ASCII string
	Value	No more than 32 characters.

Parameter name	Item	Item description
lserverId	Description	Server ID
	Type	ASCII string
	Value	No more than 32 characters.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
initialPassword	Description	The initial password for the administrator for the operating system of a server.
	Type	ASCII string
	Number of occurrences	0 or 1.

## Sample response

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

```

<initialPassword>init_pass</initialPassword>
<responseMessage>PAPI00000 Processing was completed.</responseMessage>
<responseStatus>SUCCESS</responseStatus>
</GetLServerInitialPasswordResponse>

```

## 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

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### 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.

Parameter name	Item	Item description
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
	Value	1 to 1000000. [When VM type is VMware] 1 to 1000000 [When VM type is Hyper-V] 1 to 10000
[memorySize]	Description	Amount of memory. The value must be specified in GB, up to one decimal place. Specify a value that is no less than 0.1 and no more than the maximum value specified by the image (or no more than 99999.9 if the maximum value has not been specified).
	Type	decimal
	Value	0.1 to 99999.9.
[memoryReserve]	Description	Reserved memory capacity. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified).  [When VM type is VMware] Memory Reserved. Specify a value that is no less than 0.0 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified).  [When VM type is Hyper-V] Startup RAM. Specify a value that is no less than 0.1 and no more than the maximum value specified by either memorySize or the image (or no more than 99999.9 if neither of these have been specified).
	Type	decimal

Parameter name	Item	Item description
	Value	to 99999.9. [When VM type is VMware] 0.0 to 99999.9 [When VM type is Hyper-V] 0.1 to 99999.9
[memoryShare]	Description	Memory allotment ratio. [When VM type is VMware] Memory Shares. [When VM type is Hyper-V] Memory Weight.
	Type	int
	Value	0 to 1000000. [When VM type is VMware] 0 to 1000000. [When VM type is Hyper-V] 0 to 10000.
[serverType]	Description	Server type. The default performance values for the specified server type will be set. If this parameter is specified together with the CPU and memory performance parameters, the values for the CPU and memory performance will take precedence.
	Type	ASCII string
	Value	No more than 32 characters.
[priority]	Description	Priority startup levels when performing batch power supply controls. These values will be started up from small servers. However, servers with a startup priority level of '0' are not eligible for batch power supply operations.
	Type	int
	Value	0 to 256

## 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



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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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

Parameter name	Item	Item description
	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.
	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.

## 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.

Element name	Item	Item description
		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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

Parameter name	Item	Item description
lplatformId	Description	L-Platform ID.
	Type	ASCII string
	Value	No more than 32 characters.
lserverId	Description	The ID of the server for which a snapshot is to be created.
	Type	ASCII string
	Value	No more than 32 characters.
comment	Description	A comment for the snapshot.
	Type	UTF-8 string
	Value	No more than 128 characters. However, linefeed codes and the following characters cannot be specified: < > & ' "

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

### 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
snapshots	Description	Element holding the response information for the snapshot information.
	Type	None
	Number of occurrences	0 or 1
snapshot	Description	Set of snapshot information.
	Type	None
	Number of occurrences	0 or more.
snapshotId	Description	Snapshot ID.
	Type	ASCII string
	Number of occurrences	As many as there are snapshot elements (0 or 1 element for each snapshot element).
comment	Description	A comment for the snapshot.
	Type	UTF-8 string
	Number of occurrences	As many as there are snapshot elements (0 or 1 element for each snapshot element).
snapshotTime	Description	Date and time when a snapshot was created.
	Type	UTF-8 string

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

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<ListSnapshotResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <snapshots>
    <snapshot>
      <comment>Comment</comment>
      <snapshotId>image000001</snapshotId>
      <snapshotTime>Nov 12, 2010 10:00:11 AM</snapshotTime>
    </snapshot>
    <snapshot>
      <comment>Comment</comment>
      <snapshotId>image000002</snapshotId>
      <snapshotTime> Nov 12, 2010 10:00:11 AM</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.
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.

Parameter name	Item	Item description
	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.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
DestroySnapshotResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.
	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.

### Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<GetSnapshotHistoryResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>[Message]</responseMessage>
  <responseStatus>[Status]</responseStatus>
  <histories>
    <history>
      <action>[Action performed]</action>
      <snapshotId>[Snapshot ID]</snapshotId>
      <startTime>[The time when the snapshot or restoration started]</startTime>
```

```

    <endTime>[The time when the snapshot or restoration completed]</endTime>
    <status>[Status of the snapshot or restoration]</status>
    <progress>[Progress of the snapshot or restoration]</progress>
  </history>
</histories>
</GetSnapshotHistoryResponse>

```

<Elements>

Element name	Item	Item description
GetSnapshotHistoryResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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. - CLONING: Collect the cloning image. - REMOVE: Deleted a snapshot - EVENT_REMOVE: Automatically deleted 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

Element name	Item	Item description
	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
	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> Nov 12, 2010 10:00:11 AM</startTime>
      <endTime> Nov 12, 2010 10:01:11 AM</endTime>
      <status>completed</status>
      <progress>100</progress>
    </history>
    <history>
      <action>RESTORE</action>
      <snapshotId>image000001</snapshotId>
      <startTime> Nov 12, 2010 10:20:11 AM</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
	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: < > & ' "

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

Parameter name	Item	Item description
	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.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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".
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".

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.
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.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
CancelErrorResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1



## Sample response

```
<?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>
```

## 2.3.20 CreateNic (Add NIC to Server)

This API adds an NIC to a server.

This API can only be executed when the server virtualization software on the server is VMware, Hyper-V, or RHEL-KVM.

If the target server has snapshots, NIC addition cannot be done.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.



### Note

When NIC is added, the automatic setting of Internet Protocol address on guest OS is not done.

Log in guest OS after adding NIC, and set IP address displayed in detailed information of L-Server to guest OS manually.

Confirm added NIC can be correctly communicated with the external instrument after IP address is set.

When two or more NIC is added, it is recommended to add it one by one.

## 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 "CreateNic".
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
	Value	No more than 32 characters.
lplatformId	Description	ID of the L-Platform to which the network is to be added.
	Type	ASCII string
	Value	No more than 32 characters.
lserverId	Description	Server ID
	Type	ASCII string
	Value	No more than 32 characters.
networkId	Description	Network ID connecting the added NIC.
	Type	ASCII string
	Value	No more than 32 characters.
[ipAddress]	Description	IP address assigned to the added NIC.
	Type	ASCII string
	Value	None

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
CreateNicResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1

## Sample response

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

## 2.3.21 DestroyNic (Delete Specified NIC from Server)

This API deletes a specified NIC from a server.

This API can only be executed when the server virtualization software on the server is VMware, Hyper-V, or RHEL-KVM.

If the target server has snapshots, NIC deletion cannot be done.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.



If a NIC being deleted has been configured on the guest OS, the deletion on the L-Platform tab does not delete the configuration from the guest OS.

Delete the configuration of the NIC from the guest OS beforehand.

## 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 "DestroyNic".
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	ID of the L-Platform deleting the network.
	Type	ASCII string
	Value	No more than 32 characters.

Parameter name	Item	Item description
lserverId	Description	Server ID.
	Type	ASCII string
	Value	No more than 32 characters.
nicNo	Description	NIC Number.
	Type	ASCII string
	Value	Specify the number of the NIC to be deleted. The value must be 1 or higher.
[force]	Description	Flag indicating whether NICs that are distribution targets for the server load balancer will be forcibly deleted.
	Type	ASCII string
	Value	Specify one of the following: - true: Forcibly deletes - false: Does not forcibly delete  If omitted, "false" will be used.

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
DestroyNicResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1

## Sample response

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

## 2.3.22 ExpandSysvolSize (Increase the Size of System Volume)

This API increases the size of system volume.

This API can only be used if the server virtualization software on the server is VMware or Hyper-V.

If the target server has snapshots, the system disk size cannot be increased.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

## 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 "DestroyNic".
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	ID of the L-Platform deleting the network.
	Type	ASCII string
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string
	Value	No more than 32 characters.
sysvolSize	Description	Size of the system volume.

Parameter name	Item	Item description
	Type	decimal
	Value	Specify a value larger than the current disk size in GB. For VMware, specify a value between 0.1 and 99999.9 (up to 1 decimal can be specified). For Hyper-V servers, specify a value between 1 and 99999 (only integer values can be specified).

## Response

<Status code>

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

<XML>

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

<Elements>

Element name	Item	Item description
ExpandSysvolSizeResponse	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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1

## Sample response

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

## 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.

It cannot be used in the following cases:

- The server virtualization software is RHEL-KVM or Solaris Zones.
- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers..

### 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 "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

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

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### 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.

### Response

<Status code>

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

## <XML>

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

## <Elements>

Element name	Item	Item description
DestroyDiskResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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>
```

## 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".
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.

Parameter name	Item	Item description
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.

## Response

<Status code>

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

<XML>

```
<?xml version="1.0" encoding="UTF-8"?>
<ListDiskResponse xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <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>
      <locked>[Flag indicating whether the disk resource is locked for DR]</locked>
      <comment>[Existing disk comment]</comment>
      <diskSize>[The size of the existing disk]</diskSize>
      <storagePool>[The resource name of the storage pool]</storagePool>
      <preCreated>[Precreated attribute]</preCreated>
      <status>[The status of the existing disk]</status>
    </disk>
  </disks>
</ListDiskResponse>
```

<Elements>

Element name	Item	Item description
ListDiskResponse	Description	Element holding the response information.
	Type	None
	Number of occurrences	1
responseMessage	Description	Message. This element indicates whether the request has been processed correctly. Refer to "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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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).
locked	Description	Resource locked status.  Flag indicating whether the disk resource is locked for DR. true: locked false : unlocked  The following limitation applies to locked disk resources: - An error occurs if a locked disk resource is attached using AttachDisk.
	Type	ASCII string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
comment	Description	Existing disk comment.
	Type	UTF-8 string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
diskSize	Description	The size of the existing disk. The units are "GB".
	Type	decimal
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
storagePool	Description	The resource name of the storage pool.
	Type	UTF-8 string
	Number of occurrences	As many as there are disk elements (0 or 1 element for each disk element).
preCreated	Description	Precreated attribute.
	Type	ASCII string
	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

Element name	Item	Item description
	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 xmlns="http://cfmg.systemwalker.jp.fujitsu.com">
  <responseMessage>PAPI00000 Processing was completed.</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <disks>
    <disk>
      <name>small-disk</name>
      <diskResourceId>disk-1241</diskResourceId>
      <label>disk-0001</label>
      <locked>true</locked>
      <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.

This API can be executed on the physical server only if the server virtualization software is REHL-KVM.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### Request parameters

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

Parameter name	Item	Item description
orgId	Description	The tenant name of the user that executes the L-Platform API.
	Type	ASCII string
	Value	No more than 32 characters.
lplatformId	Description	System ID
	Type	ASCII string
	Value	No more than 32 characters.
lserverId	Description	Server ID
	Type	ASCII string
	Value	No more than 32 characters.
diskResourceId	Description	The resource ID of the existing disk to be attached.
	Type	ASCII string
	Value	No more than 32 characters.
diskName	Description	The name of the existing disk to be attached.
	Type	UTF-8 string
	Value	No more than 85 characters. The name of an existing disk need not be specified.

## 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.

Element name	Item	Item description
		Refer to " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.

It cannot be used in the following cases:

- The target L-Platform has Solaris Zones servers not managed by BladeLogic.
- The target L-Platform has OVM for SPARC management servers.

### 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.

Parameter name	Item	Item description
lplatformId	Description	L-Platform ID.
	Type	ASCII string
	Value	No more than 32 characters.
lserverId	Description	Server ID.
	Type	ASCII string
	Value	No more than 32 characters.
diskId	Description	The ID of the extension disk to be detached.
	Type	ASCII string
	Value	No more than 32 characters.

## 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " 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.
[platformId]	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"?>
<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>
          <images type="[Image information type]">
            <image id="[Image resource ID]">
              </image>
            </images>
          </server>
        </servers>
      </system>
    </systems>
  </GetResourceUsageResponse>
```

<Elements>

Element name	Item	Item description
GetResourceUsageResponse	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 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 " <a href="#">Appendix B List of Response Status Error Codes(Accounting APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
version	Description	The version 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".
	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-ddTHH:mm:ss.SSSZ". For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00.  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 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 element).
disks	Description	Element holding the response information for the list of disk.
	Type	ASCII string

Element name	Item	Item description
	Number of occurrences	As many as there are server elements (0 or 1 element for each 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 (0 or more elements for each element).
images	Description	Element holding the response information for the list of image resources.  - type: Image information type  Possible values: - snapshot: snapshot
	Type	string ASCII
	Number of occurrences	As many as there are server elements (0 or 1 elements for each server element).
image	Description	Set of image resource information. - id: Image resource ID
	Type	string ASCII
	Number of occurrences	As many as there are images elements (0 or more elements for each images 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, disk, and image elements (0 or more elements for each element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string
	Number of occurrences	As many as there are accountingItems elements (1 or more elements for each 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.

Element name	Item	Item description
		<p>* 2: Performance values for each product are returned.</p> <ul style="list-style-type: none"> <li>- template: 1 (fixed)</li> <li>- vm: 1 (fixed)</li> <li>- pm: 1 (fixed)</li> <li>- cpu: Number of CPUs</li> <li>- cpu_clock: CPU frequency</li> <li>- memory: Memory size</li> <li>- disk: Disk size</li> <li>- sys_disk: Disk size</li> <li>- snapshot: Disk size</li> </ul>
	Type	ASCII string
	Number of occurrences	As many as there are products elements (0 or more elements for each 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 element).
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 element).
record	Description	<p>Information about deployment and operation times.</p> <ul style="list-style-type: none"> <li>· startTime: Start time. Format is "<i>HH:mm:ss.SSSZ</i>".</li> <li>For example, use 01:05:00.000+0900 for 01:05 A.M. and 00.000 seconds in timezone UTC+9:00.</li> <li>· startEvent: Start event (*1)</li> <li>· endTime: End time. Format is "<i>HH:mm:ss.SSSZ</i>".</li> <li>For example, use 01:05:00.000+0900 for 01:05 A.M. and 00.000 seconds in timezone UTC+9:00.</li> <li>· endEvent: End event (*1)</li> <li>· recordStatus: Status flag. This will be one of the following: <ul style="list-style-type: none"> <li>- NORMAL</li> <li>- WARNING</li> <li>- ERROR</li> </ul> </li> </ul> <p>*1: Refer to "<a href="#">3.1.1.1 List of Events</a>" for details.</p>
	Type	ASCII string
	Number of occurrences	As many as there are deploymentRecords or operationRecords elements (0 or more elements for each element).

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetResourceUsageResponse>
  <responseMessage>PAPI00000 Process completed..</responseMessage>
  <responseStatus>SUCCESS</responseStatus>
  <version>1.0</version>
  <systems date="2012-01-01">
    <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate=""
ownerUserId="tenant_user_001">
      <accountingItems>
```

```

<accountingItem>
  <products>
    <product id="PID-TMP-001" category="template" resource="template-135562b98d2" usageUnit="month"
unitPrice="1000.000" unitNum="1">
      <deploymentRecords>
        <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
      </deploymentRecords>
    </product>
  </products>
</accountingItem>
</accountingItems>
<servers>
  <server id="Tenant1-IYHPD30VJ-S-0001" name="server01">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
            <deploymentRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
            </deploymentRecords>
          </product>
        </products>
      </accountingItem>
      <accountingItem>
        <products>
          <product id="PID-CPU-001" category="cpu" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="2">
            <deploymentRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
            </deploymentRecords>
            <operationRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD_RUNNING"
endTime="10:29:59.999+0900" endEvent="STOP" recordStatus="NORMAL"/>
            </operationRecords>
          </product>
          <product id="PID-CLK-001" category="cpu_clock" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="10">
            <deploymentRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
            </deploymentRecords>
            <operationRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD_RUNNING"
endTime="10:29:59.999+0900" endEvent="STOP" recordStatus="NORMAL"/>
            </operationRecords>
          </product>
        </products>
      </accountingItem>
      <accountingItem>
        <products>
          <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.100" unitNum="40">
            <deploymentRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
            </deploymentRecords>
            <operationRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD_RUNNING"
endTime="02:29:59.999+0900" endEvent="CHANGE_PRICE" recordStatus="NORMAL"/>
            </operationRecords>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </server>
</servers>

```

```

        </operationRecords>
    </product>
</products>
</accountingItem>
<accountingItem>
    <products>
        <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="40">
            <deploymentRecords>
                <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
            </deploymentRecords>
            <operationRecords>
                <record startTime="02:30:00.000+0900" startEvent="CHANGE_PRICE" endTime="10:29:59.999+0900"
endEvent="STOP" recordStatus="NORMAL"/>
            </operationRecords>
        </product>
    </products>
</accountingItem>
<accountingItem>
    <products>
        <product id="PID-SYS-001" category="sys_disk" resource="/StoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
            <deploymentRecords>
                <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
            </deploymentRecords>
        </product>
    </products>
</accountingItem>
</accountingItems>
<disks>
    <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK01">
        <accountingItems>
            <accountingItem>
                <products>
                    <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
                        <deploymentRecords>
                            <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
                        </deploymentRecords>
                    </product>
                </products>
            </accountingItem>
        </accountingItems>
    </disk>
    <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK02">
        <accountingItems>
            <accountingItem>
                <products>
                    <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
                        <deploymentRecords>
                            <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
                        </deploymentRecords>
                    </product>
                </products>
            </accountingItem>
        </accountingItems>
    </disk>
</disks>

```



```

<images type="snapshot">
  <image id="Tenant1-IYHPD30VJ-SS-0001">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-SS-001" category="snapshot" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <deploymentRecords>
              <record startTime="00:00:00.000+0900" startEvent="PERIOD" endTime="23:59:59.999+0900"
endEvent="END" recordStatus="NORMAL"/>
            </deploymentRecords>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </image>
</images>
</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

No.	Event name	Generated events				Event summary
		Deployed time		Operation time		
		Start	End	Start	End	
17	UNKNOWN_PERIOD	YES	-	YES	-	If STOP-PERIOD(RUNNNING), then this becomes UNKNOWN_PERIOD-PERIOD

\* Note: This value is "YES" when combineRecord=false

## 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".
[platformId]	Description	Retrieve information for specified L-Platform
	Type	ASCII string
	Value	Specify in each parameter when specifying multiple.

Parameter name	Item	Item description
		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
	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]">
          <disks>
            <disk id="[Disk ID]" name="[Disk name]">
              </disk>
            </disks>
          <images type="[Image information type]">
            <image id="[Image resource ID]">
              </image>
            </images>
          </server>
        </servers>
      </system>
    </systems>
  </response>
</GetUsagePointResponse>
```

```

</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.  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 " <a href="#">Appendix B List of Response Status Error Codes(Accounting APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
version	Description	The version 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	Element holding the response information for the list of L-Platform. date: Date of the data to be retrieved. Format is "yyyy-MM-dd". If "Sum=true" is specified for the parameter, the attribute is none.
	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-ddTHH:mm:ss.SSSZ". For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00.

Element name	Item	Item description
		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	UTF-8 string
	Number of occurrences	As many as there are system elements (0 or 1 element for each element).
server	Description	Set of additional L-Server information. - id: L-Server ID - name: L-Server name
	Type	ASCII string
	Number of occurrences	As many as there are servers elements (0 or 1 element for each element).
disks	Description	Element holding the response information for the list of disk.
	Type	ASCII string
	Number of occurrences	As many as there are server elements (0 or 1 elements for each 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 (0 or more elements for each element).
images	Description	Element holding the response information for the list of image resources. type: Image information type  Possible values: - snapshot: snapshot
	Type	string ASCII
	Number of occurrences	As many as there are server elements (0 or 1 elements for each element).
image	Description	Set of image resource information. - id: Image resource ID
	Type	string ASCII
	Number of occurrences	As many as there are images elements (0 or more elements for each 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, disk, and image elements (0 or more elements for each element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string
	Number of occurrences	As many as there are accountingItems elements (1 or more elements for each element).
products	Description	Element holding the response information for the list of product information.

Element name	Item	Item description
	Type	ASCII string
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each element).
product	Description	<p>Set of product information</p> <ul style="list-style-type: none"> <li>- id: Product ID (*1)</li> <li>- category: Category code (*1)</li> <li>- resource: Resource ID (*1)</li> <li>- usageUnit: Accounting unit (*1)</li> <li>- unitPrice: Unit price (*1)</li> <li>- unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2)</li> </ul> <p>* 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.</p> <p>* 2: Performance values for each product are returned.</p> <ul style="list-style-type: none"> <li>- template: 1 (fixed)</li> <li>- vm: 1 (fixed)</li> <li>- pm: 1 (fixed)</li> <li>- cpu: Number of CPUs</li> <li>- cpu_clock: CPU frequency</li> <li>- memory: Memory size</li> <li>- disk: Disk size</li> <li>- sys_disk: Disk size</li> <li>- snapshot: Disk size</li> </ul>
	Type	ASCII string
	Number of occurrences	As many as there are products elements (0 or more elements for each element).
usagePoint	Description	Usage point
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each element).
usagePointUnit	Description	<p>Unit of usage point. Specify one of the following:</p> <ul style="list-style-type: none"> <li>- minute (minutes)</li> <li>- hour (hours)</li> <li>- month (months)</li> </ul>
	Type	ASCII string
	Number of occurrences	As many as there are product elements (1 elements for each element).

### Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
<GetUsagePointResponse>
<responseMessage>PAPI00000 Process completed..</responseMessage>
<responseStatus>SUCCESS</responseStatus>
<version>1.0</version>
<startDate>2012-01-01</startDate>
<endDate>2012-01-01</endDate>
<systems date="2012-01-01">
  <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate=""
ownerUserId="tenant_user_001">
  <accountingItems>
  <accountingItem>
  <products>
  <product id="PID-TMP-001" category="template" resource="template-135562b98d2" usageUnit="month"

```

```

unitPrice="1000.000" unitNum="1">
  <usagePoint>1440</usagePoint>
  <usagePointUnit>minute</usagePointUnit>
</product>
</products>
</accountingItem>
</accountingItems>
<servers>
  <server id="Tenant1-IYHPD30VJ-S-0001" name="server01">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
          <usagePoint>1440</usagePoint>
          <usagePointUnit>minute</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>
<accountingItem>
  <products>
    <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="40">
    <usagePoint>480</usagePoint>
    <usagePointUnit>minute</usagePointUnit>
  </product>
  </products>
</accountingItem>
<accountingItem>
  <products>
    <product id="PID-SYS-001" category="sys_disk" resource="/StoragePool" usageUnit="month"
unitPrice="10.000" unitNum="200">
    <usagePoint>1440</usagePoint>
    <usagePointUnit>minute</usagePointUnit>
  </product>
  </products>
</accountingItem>
</accountingItems>
<disks>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK01">

```

```

    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK02">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
</disks>
<images type="snapshot">
  <image id="Tenant1-IYHPD30VJ-SS-0001">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-SS-001" category="snapshot" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </image>
</images>
</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	Element holding the information for the list of L-Platform. - date: Date of the data to be registered. Format is "yyyy-MM-dd".
	Type	None
	Number of occurrences	1 or more.
system	Description	Set of additional L-Platform information. Specify one of the following: - 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-ddTHH:mm:ss.SSSZ".  For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00.  Specify empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	ASCII string
	Number of occurrences	As many as there are systems elements (0 or 1 element for each element).
servers	Description	Element holding the information for the list of L-Server.
	Type	None
	Number of occurrences	As many as there are system elements (0 or 1 element for each element).
server	Description	Set of L-Server information. Fixed. - id: L-Server ID - name: L-Server name
	Type	ASCII string
	Number of occurrences	0 or more
disks	Description	Element holding the information for the list of disk.
	Type	None
	Number of occurrences	Fixed. As many as there are system elements (0 or 1 elements for each element).
disk	Description	Set of disk information. Fixed. - id: Disk ID - name: Disk name
	Type	ASCII string
	Number of occurrences	0 or more.

Element name	Item	Item description
images	Description	Element holding the response information for the list of image resources. type: Image information type  Possible values: - snapshot: snapshot
	Type	ASCII string
	Number of occurrences	As many as there are server elements (0 or 1 elements for each server element).
image	Description	Set of image resource information - id: Image resource ID
	Type	ASCII string
	Number of occurrences	As many as there are images elements (0 or more elements for each images element).
accountingItems	Description	Element holding the information for the list of accounting information.
	Type	None
	Number of occurrences	As many as there are system, server, or disk elements (0 or 1 elements for each element).
accountingItem	Description	Set of additional list of accounting information.
	Type	None
	Number of occurrences	As many as there are accountingItems elements (1 or more elements for each element).
products	Description	Element holding the information for the list of product information.
	Type	None
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each element).
product	Description	Set of product information. Specify one of the following: - 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 - sys_disk: Disk size - snapshot: Disk size
	Type	None
	Number of occurrences	As many as there are products elements (0 or more elements for each element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are products elements (1 elements for each element).

Element name	Item	Item description
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 products elements (1 elements for each element).

### Sample request body

```
<?xml version="1.0" encoding="UTF-8"?>
<Request>
<param name="action">RegisterUsagePoint</param>
<Body>
<systems date="2012-01-01">
  <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate=""
ownerUserId="tenant_user_001">
  <accountingItems>
    <accountingItem>
      <products>
        <product id="PID-TMP-001" category="template" resource="template-135562b98d2" usageUnit="month"
unitPrice="1000.000" unitNum="1">
          <usagePoint>1440</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
        </product>
      </products>
    </accountingItem>
  </accountingItems>
  <servers>
    <server id="Tenant1-IYHPD30VJ-S-0001" name="server01">
      <accountingItems>
        <accountingItem>
          <products>
            <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
              <usagePoint>1440</usagePoint>
              <usagePointUnit>minute</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>
      </servers>
    </system>
  </systems>
</Body>
</Request>
```

```

    </product>
  </products>
</accountingItem>
<accountingItem>
  <products>
    <product id="PID-MEM-001" category="memory" resource="/VMHostPool" usageUnit="hour"
unitPrice="0.150" unitNum="40">
      <usagePoint>480</usagePoint>
      <usagePointUnit>minute</usagePointUnit>
    </product>
  </products>
</accountingItem>
<accountingItem>
  <products>
    <product id="PID-SYS-001" category="sys_disk" resource="/StoragePool" usageUnit="month"
unitPrice="10.000" unitNum="200">
      <usagePoint>1440</usagePoint>
      <usagePointUnit>minute</usagePointUnit>
    </product>
  </products>
</accountingItem>
</accountingItems>
<disks>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK01">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK02">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
</disks>
<images type="snapshot">
  <image id="Tenant1-IYHPD30VJ-SS-0001">
    <accountingItems>
      <accountingItem>
        <products>
          <product id="PID-SS-001" category="snapshot" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </image>
</images>

```

```

    </image>
  </images>
</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.  <a href="#">Refer to "Appendix B List of Response Status Error Codes(Accounting APIs)"</a> 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"?>
<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".
[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

Parameter name	Item	Item description
	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 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]">
      <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>
          <images type="[Image information type]">
            <image id="[Image resource ID]">
              </image>
          </images>
        </server>
      </servers>
    </system>
  </systems>
</GetDailyChargeResponse>
```

<Elements>

Element name	Item	Item description
GetDailyChargeResponse	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 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
version	Description	The version 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	Element holding the response information for the list of L-Platform. date: Date of the data to be retrieved. Format is "yyyy-MM-dd". If "sum=true" is specified for the parameter, the attribute is none.
	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-ddTHH:mm:ss.SSSZ". For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00.  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 element).



Element name	Item	Item description
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 element).
disks	Description	Element holding the response information for the list of disk.
	Type	ASCII string
	Number of occurrences	As many as there are server elements (0 or 1 element for each 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 (0 or more element for each element).
images	Description	Element holding the response information for the list of image resources. - type: Image information type  Possible values: - snapshot: snapshot
	Type	string ASCII
	Number of occurrences	As many as there are server elements (0 or 1 elements for each element).
image	Description	Set of image resource information. - id: IDImage resource ID
	Type	string ASCII
	Number of occurrences	As many as there are images elements (0 or more elements for each 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, disk, and image elements (0 or more elements for each element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string
	Number of occurrences	As many as there are accountingItems elements (1 or more elements for each element).
subtotalCharge	Description	Subtotal of daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are accountingItem elements (1 elements for each element).
products	Description	Element holding the response information for the list of product information.
	Type	ASCII string

Element name	Item	Item description
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each 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 - sys_disk: Disk size - snapshot: Disk size
	Type	ASCII string
	Number of occurrences	As many as there are products elements (0 or more elements for each element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each 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 element).
usageCharge	Description	Daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each element).



**The contents of the usageCharge element which parent product elements have the attribute category with values cpu or cpu\_clock**

When using default accounting calculation and do not have the data which are registered by Accounting API, the contents of the usageCharge element whose parent product elements have the attribute category with values cpu or cpu\_clock will be 0. The usage charge for the CPU can be obtained from the subtotalCharge element whose parent accountingItem element contains product elements with attribute category values cpu and cpu\_clock.

Refer to "15.4.4 Resource Usage Amounts and Times" in the "Operation Guide CE" for the calculation formula of CPU usage charges.

## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetDailyChargeResponse>
<responseMessage>PAPI00000 Process completed..</responseMessage>
<responseStatus>SUCCESS</responseStatus>
<version>1.0</version>
<startDate>2012-01-01</startDate>
<endDate>2012-01-01</endDate>
<systems date="2012-01-01">
  <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate=""
ownerUserId="tenant_user_001">
    <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>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>1000.000</usageCharge>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
    <servers>
      <server id="Tenant1-IYHPD30VJ-S-0001" name="server01">
        <accountingItems>
          <accountingItem>
            <subtotalCharge>800.000</subtotalCharge>
            <products>
              <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
                <usagePoint>1440</usagePoint>
                <usagePointUnit>minute</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>3.15</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>
              </product>
            </products>
          </accountingItem>
        </accountingItems>
      </server>
    </servers>
  </system>
</systems>
</GetDailyChargeResponse>
```

```

        <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>
<accountingItem>
    <subtotalCharge>2000.000</subtotalCharge>
    <products>
        <product id="PID-SYS-001" category="sys_disk" resource="/StoragePool" usageUnit="month"
unitPrice="10.000" unitNum="200">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>200.000</usageCharge>
        </product>
    </products>
</accountingItem>
</accountingItems>
<disks>
    <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK01">
        <accountingItems>
            <accountingItem>
                <subtotalCharge>200</subtotalCharge>
                <products>
                    <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
                        <usagePoint>1440</usagePoint>
                        <usagePointUnit>minute</usagePointUnit>
                        <usageCharge>200.000</usageCharge>
                    </product>
                </products>
            </accountingItem>
        </accountingItems>
    </disk>
    <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK02">
        <accountingItems>
            <accountingItem>
                <subtotalCharge>300</subtotalCharge>
                <products>
                    <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
                        <usagePoint>1440</usagePoint>
                        <usagePointUnit>minute</usagePointUnit>
                        <usageCharge>300.000</usageCharge>
                    </product>
                </products>
            </accountingItem>
        </accountingItems>
    </disk>
</disks>
<images type="snapshot">
    <image id="Tenant1-IYHPD30VJ-SS-0001">
        <accountingItems>
            <accountingItem>

```

```

        <subtotalCharge>300</subtotalCharge>
        <products>
            <product id="PID-SS-001" category="snapshot" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
                <usagePoint>1440</usagePoint>
                <usagePointUnit>minute</usagePointUnit>
                <usageCharge>300.000</usageCharge>
            </product>
        </products>
    </accountingItem>
</accountingItems>
</image>
</images>
</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	Element holding the response information for the list of L-Platform. date: Date of registered data. Format is "yyyy-MM-dd".
	Type	None
	Number of occurrences	1 or more.
system	Description	Set of additional L-Platform template information. Specify one of the following: - 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-ddTHH:mm:ss.SSSZ".

Element name	Item	Item description
		For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00. Specify empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	ASCII string
	Number of occurrences	As many as there are systems elements (0 or more element for each element).
servers	Description	Element holding the information for the list of L-Server.
	Type	None
	Number of occurrences	As many as there are system elements (0 or 1 element for each element).
server	Description	Set of additional L-Server information. - id: L-Server ID - name: L-Server name
	Type	ASCII string
	Number of occurrences	As many as there are servers elements (0 or more element for each element).
disks	Description	Element holding the information for the list of disk.
	Type	None
	Number of occurrences	As many as there are system elements (0 or 1 element for each 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 (0 or more elements for each element).
images	Description	Element holding the response information for the list of image resources. - type: Image information type  Possible values: - snapshot: snapshot
	Type	string ASCII
	Number of occurrences	As many as there are server elements (0 or 1 elements for each element).
image	Description	Set of image resource information. - id: Image resource ID
	Type	string ASCII
	Number of occurrences	As many as there are images elements (0 or more elements for each element).
accountingItems	Description	Element holding the response information for the list of accounting information.
	Type	None
	Number of occurrences	As many as there are system, server, or disk elements (0 or 1 elements for each element).
accountingItem	Description	Set of additional list of accounting information.
	Type	None
	Number of occurrences	As many as there are accountingItems elements (1 or more elements for each element).
subtotalCharge	Description	Subtotal of daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are accountingItem elements (1 elements for each element).

Element name	Item	Item description
products	Description	Element holding the response information for the list of product information.
	Type	None
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each accountingItem element).
product	Description	Set of product information. Specify one of the following: - 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 - sys_disk: Disk size - snapshot: Disk size
	Type	None
	Number of occurrences	As many as there are products elements (0 or more elements for each element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are products elements (1 elements for each 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 products elements (1 elements for each element).
usageCharge	Description	Daily usage charges.
	Type	decimal
	Number of occurrences	As many as there are products elements (1 elements for each element).

### Sample request body

```

<?xml version="1.0" encoding="UTF-8"?>
<Request>
<param name="action">RegisterUsagePoint</param>
<Body>
<systems date="2012-01-01">
  <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate=""
ownerUserId="tenant_user_001">
    <accountingItems>
      <accountingItem>
        <subtotalCharge>1000.000</subtotalCharge>

```

```

        <usageCharge>1000.000</usageCharge>
    </products>
    <product id="PID-TMP-001" category="template" resource="template-135562b98d2" usageUnit="month"
unitPrice="1000.000" unitNum="1">
        <usagePoint>1440</usagePoint>
        <usagePointUnit>minute</usagePointUnit>
    </product>
</products>
</accountingItem>
</accountingItems>
<servers>
    <server id="Tenant1-IYHPD30VJ-S-0001" name="server01">
        <accountingItems>
            <accountingItem>
                <subtotalCharge>800.000</subtotalCharge>
                <products>
                    <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
                        <usagePoint>1440</usagePoint>
                        <usagePointUnit>minute</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>

```



```

<accountingItem>
  <subtotalCharge>200.000</subtotalCharge>
  <products>
    <product id="PID-SYS-001" category="sys_disk" resource="/StoragePool" usageUnit="month"
unitPrice="10.000" unitNum="200">
      <usagePoint>1440</usagePoint>
      <usagePointUnit>minute</usagePointUnit>
      <usageCharge>2000.000</usageCharge>
    </product>
  </products>
</accountingItem>
</accountingItems>
<disks>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK01">
    <accountingItems>
      <accountingItem>
        <subtotalCharge>200</subtotalCharge>
        <products>
          <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>200.000</usageCharge>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK02">
    <accountingItems>
      <accountingItem>
        <subtotalCharge>300</subtotalCharge>
        <products>
          <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>300.000</usageCharge>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
</disks>
<images type="snapshot">
  <image id="Tenant1-IYHPD30VJ-SS-0001">
    <accountingItems>
      <accountingItem>
        <subtotalCharge>300</subtotalCharge>
        <products>
          <product id="PID-SS-001" category="snapshot" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>300.000</usageCharge>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </image>
</images>
</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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
version	Description	The version 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.
[tenantName]	Description	Retrieve information for specified tenant.
	Type	ASCII string

Parameter name	Item	Item description
	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 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>
          <images type="[Image information type]">
            <image id="[Image resource ID]">
              </image>
            </images>
          </server>
        </servers>
      </system>
    </systems>
  </GetMonthlyChargeResponse>
```

<Elements>

Element name	Item	Item description
GetMonthlyChargeResponse	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 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 " <a href="#">Appendix A List of Response Status Error Codes(L-Platform APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
version	Description	The version 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	Element holding the response information for the list of L-Platform. date: Date of acquired data. Format is "yyyy-MM". When "sum=true" is specified for the parameter, the attribute is none.
	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-ddTHH:mm:ss.SSSZ". For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00.  The return is empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	0 or more.
	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.
	Type	decimal
	Number of occurrences	As many as there are system elements (1 element for each element).
servers	Description	Element holding the response information for the list of L-Server.

Element name	Item	Item description
	Type	ASCII string
	Number of occurrences	As many as there are system elements (0 or 1 element for each 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 element).
disks	Description	Set of additional disk information.
	Type	ASCII string
	Number of occurrences	As many as there are server elements (0 or 1 element for each 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 (0 or more element for each element).
images	Description	Element holding the response information for the list of image resources. - type: Image information type  Possible values: - snapshot: snapshot
	Type	string ASCII
	Number of occurrences	As many as there are server elements (0 or 1 elements for each element).
image	Description	Set of image resource information. - id: Image resource ID
	Type	string ASCII
	Number of occurrences	As many as there are images elements (0 or more elements for each 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, disk and image elements (0 or more elements for each element).
accountingItem	Description	Set of additional list of accounting information.
	Type	ASCII string
	Number of occurrences	As many as there are accountingItems elements (1 or more elements for each accountingItems element).
subtotalCharge	Description	Subtotal of monthly usage charges.
	Type	decimal
	Number of occurrences	As many as there are accountingItem elements (1 elements for each accountingItem element).

Element name	Item	Item description
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	<p>Set of product information</p> <ul style="list-style-type: none"> <li>- id: Product ID (*1)</li> <li>- category: Category code (*1)</li> <li>- resource: Resource ID (*1)</li> <li>- usageUnit: Accounting unit (*1)</li> <li>- unitPrice: Unit price (*1)</li> <li>- unitNum: Unit number (number of pieces, frequency, size, etc.) (*2)</li> </ul> <p>* 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.</p> <p>* 2: Performance values for each product are returned.</p> <ul style="list-style-type: none"> <li>- template: 1 (fixed)</li> <li>- vm: 1 (fixed)</li> <li>- pm: 1 (fixed)</li> <li>- cpu: Number of CPUs</li> <li>- cpu_clock: CPU frequency</li> <li>- memory: Memory size</li> <li>- disk: Disk size</li> <li>- sys_disk: Disk size</li> <li>- snapshot: Disk size</li> </ul>
	Type	ASCII string
	Number of occurrences	As many as there are products elements (0 or more 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	<p>Unit of usage point. Specify one of the following:</p> <ul style="list-style-type: none"> <li>- minute (minutes)</li> <li>- hour (hours)</li> <li>- month (months)</li> </ul>
	Type	ASCII string
	Number of occurrences	As many as there are product elements (1 elements for each element).
usageCharge	Description	Monthly usage charges.
	Type	decimal
	Number of occurrences	As many as there are product elements (1 elements for each element).



**The contents of the usageCharge element which parent product elements have the attribute category with values cpu or cpu\_clock**

When using default accounting calculation and do not have the data which are registered by Accounting API, the contents of the usageCharge element whose parent product elements have the attribute category with values cpu or cpu\_clock will be 0. The usage charge

for the CPU can be obtained from the subtotalCharge element whose parent accountingItem element contains product elements with attribute category values cpu and cpu\_clock.

Refer to "15.4.4 Resource Usage Amounts and Times" in the "Operation Guide CE" for the calculation formula of CPU usage charges.



## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<GetMonthlyChargeResponse>
<responseMessage>PAPI00000 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=""
ownerUserId="tenant_user_001">
  <totalCharge>2382.15</totalCharge>
  <costSharingRates>
    <costSharingRate tenantName="Tenant1" rate="80"/>
    <costSharingRate tenantName="Tenant2" rate="20"/>
  </costSharingRates>
  <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>1440</usagePoint>
          <usagePointUnit>minute</usagePointUnit>
          <usageCharge>1000.000</usageCharge>
        </product>
      </products>
    </accountingItem>
  </accountingItems>
  <servers>
    <server id="Tenant1-IYHPD30VJ-S-0001" name="server01">
      <accountingItems>
        <accountingItem>
          <subtotalCharge>800.000</subtotalCharge>
          <products>
            <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
              <usagePoint>1440</usagePoint>
              <usagePointUnit>minute</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>
            </product>
          </products>
        </accountingItem>
      </accountingItems>
    </server>
  </servers>
</system>
</systems>
</GetMonthlyChargeResponse>
```



```

        <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>
<accountingItem>
    <subtotalCharge>2000.000</subtotalCharge>
    <products>
        <product id="PID-SYS-001" category="sys_disk" resource="/StoragePool" usageUnit="month"
unitPrice="2000.000" unitNum="1">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>2000.000</usageCharge>
        </product>
    </products>
</accountingItem>
</accountingItems>
<disks>
    <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK01">
        <accountingItems>
            <accountingItem>
                <subtotalCharge>200</subtotalCharge>
                <products>
                    <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
                        <usagePoint>1440</usagePoint>
                        <usagePointUnit>minute</usagePointUnit>
                        <usageCharge>200.000</usageCharge>
                    </product>
                </products>
            </accountingItem>
        </accountingItems>
    </disk>
    <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK02">
        <accountingItems>
            <accountingItem>
                <subtotalCharge>300</subtotalCharge>
                <products>
                    <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
                        <usagePoint>1440</usagePoint>
                        <usagePointUnit>minute</usagePointUnit>

```

```

        <usageCharge>300.000</usageCharge>
    </product>
</products>
</accountingItem>
</accountingItems>
</disk>
</disks>
<images type="snapshot">
    <image id="Tenant1-IYHPD30VJ-SS-0001">
        <accountingItems>
            <accountingItem>
                <subtotalCharge>200</subtotalCharge>
                <products>
                    <product id="PID-SS-001" category="snapshot" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
                        <usagePoint>1440</usagePoint>
                        <usagePointUnit>minute</usagePointUnit>
                        <usageCharge>200.000</usageCharge>
                    </product>
                </products>
            </accountingItem>
        </accountingItems>
    </image>
</images>
</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	Element holding the information for the list of L-Platform. date: Date of registered data. Format is "yyy-MM".

Element name	Item	Item description
	Type	None
	Number of occurrences	1 or more.
system	Description	Set of additional L-Platform information. Specify one of the following: - 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-ddTHH:mm:ss.SSSZ". For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00. Specify empty if the tenant has not been deleted. This attribute cannot be omitted.
	Type	ASCII string
	Number of occurrences	As many as there are system elements (0 or more 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 element).
servers	Description	Element holding the information for the list of L-Server.
	Type	None
	Number of occurrences	As many as there are syetem elements (0 or 1 element for each element).
server	Description	Set of additional L-Server information. - id: L-Server ID - name: L-Server name
	Type	ASCII string
	Number of occurrences	As many as there are servers elements (0 or more element for each element).
disks	Description	Element holding the information for the list of disk.
	Type	None
	Number of occurrences	As many as there are system elements (0 or 1 elements for each element).
disk	Description	Set of additional disk information. - id: L-Platform ID - name: L-Platform name
	Type	ASCII string
	Number of occurrences	As many as there are disks elements (0 or more elements for each element).
images	Description	Element holding the response information for the list of image resources. - type: Image information type  Possible values: - snapshot: snapshot
	Type	string ASCII
	Number of occurrences	As many as there are server elements (0 or 1 elements for each element).
image	Description	Set of image resource information. - id: Image resource ID
	Type	string ASCII
	Number of occurrences	As many as there are images elements (0 or more elements for each element).
accountingItems	Description	Element holding the response information for the list of accounting information.

Element name	Item	Item description
	Type	None
	Number of occurrences	As many as there are system, server, or disk elements (0 or more elements for each element).
accountingItem	Description	Set of additional list of accounting information.
	Type	None
	Number of occurrences	As many as there are accountingItems elements (1 or more elements for each element).
subtotalCharge	Description	Subtotal of monthly usage charges.
	Type	decimal
	Number of occurrences	As many as there are accountingItem elements (1 elements for each element).
products	Description	Element holding the response information for the list of product information.
	Type	None
	Number of occurrences	As many as there are accountingItem elements (0 or 1 element for each element).
product	Description	<p>Set of product information</p> <ul style="list-style-type: none"> <li>- id: Product ID (*1)</li> <li>- category: Category code (*1)</li> <li>- resource: Resource ID (*1)</li> <li>- usageUnit: Accounting unit (*1)</li> <li>- unitPrice: Unit price (*1)</li> <li>- unitNum: Unit number (number of pieces, frequency, size, etc.) (* 2)</li> </ul> <p>* 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.</p> <p>* 2: Performance values for each product are returned.</p> <ul style="list-style-type: none"> <li>- template: 1 (fixed)</li> <li>- vm: 1 (fixed)</li> <li>- pm: 1 (fixed)</li> <li>- cpu: Number of CPUs</li> <li>- cpu_clock: CPU frequency</li> <li>- memory: Memory size</li> <li>- disk: Disk size</li> <li>- sys_disk: Disk size</li> <li>- snapshot: Disk size</li> </ul>
	Type	None
	Number of occurrences	As many as there are products elements (0 or more elements for each element).
usagePoint	Description	Usage point.
	Type	decimal
	Number of occurrences	As many as there are products elements (1 elements for each element).
usagePointUnit	Description	<p>Unit of usage point. Specify one of the following:</p> <ul style="list-style-type: none"> <li>- minute (minutes)</li> <li>- hour (hours)</li> <li>- month (months)</li> </ul>
	Type	ASCII string
	Number of occurrences	As many as there are products elements (1 elements for each element).
usageCharge	Description	Monthly usage charges.
	Type	decimal
	Number of occurrences	As many as there are products elements (1 elements for each element).

## Sample request body

```
<?xml version="1.0" encoding="UTF-8"?>
<Request>
<param name="action">RegisterUsagePoint</param>
<Body>
<systems date="2012-01">
  <system id="Tenant1-IYHPD30VJ" name="lplatform001" tenantName="Tenant1" tenantDeleteDate=""
ownerUserId="tenant_user_001">
    <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>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>1000.000</usageCharge>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
    <servers>
      <server id="Tenant1-IYHPD30VJ-S-0001" name="server01">
        <accountingItems>
          <accountingItem>
            <subtotalCharge>800.000</subtotalCharge>
            <products>
              <product id="PID-VIM-001" category="vm" resource="/VMHostPool" usageUnit="month"
unitPrice="800.000" unitNum="1">
                <usagePoint>1440</usagePoint>
                <usagePointUnit>minute</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>
      </server>
    </servers>
  </system>
</systems>
```

```

    </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>
<accountingItem>
  <subtotalCharge>2000.000</subtotalCharge>
  <products>
    <product id="PID-SYS-001" category="sys_disk" resource="/StoragePool" usageUnit="month"
unitPrice="10.000" unitNum="200">
      <usagePoint>1440</usagePoint>
      <usagePointUnit>minute</usagePointUnit>
      <usageCharge>2000.000</usageCharge>
    </product>
  </products>
</accountingItem>
</accountingItems>
<disks>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK01">
    <accountingItems>
      <accountingItem>
        <subtotalCharge>200</subtotalCharge>
        <products>
          <product id="PID-DSK-001" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>200.000</usageCharge>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
  <disk id="Tenant1-IYHPD30VJ-D-0002" name="DISK02">
    <accountingItems>
      <accountingItem>
        <subtotalCharge>300</subtotalCharge>
        <products>
          <product id="PID-DSK-002" category="disk" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="300">
            <usagePoint>1440</usagePoint>
            <usagePointUnit>minute</usagePointUnit>
            <usageCharge>300.000</usageCharge>
          </product>
        </products>
      </accountingItem>
    </accountingItems>
  </disk>
</disks>
<images type="snapshot">
  <image id="Tenant1-IYHPD30VJ-SS-0001">
    <accountingItems>
      <accountingItem>
        <subtotalCharge>200</subtotalCharge>
        <products>

```

```

        <product id="PID-SS-001" category="snapshot" resource="VMStoragePool" usageUnit="month"
unitPrice="1.000" unitNum="200">
        <usagePoint>1440</usagePoint>
        <usagePointUnit>minute</usagePointUnit>
        <usageCharge>200.000</usageCharge>
    </product>
</products>
</accountingItem>
</accountingItems>
</image>
</images>
</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 " <a href="#">Appendix B List of Response Status Error Codes(Accounting APIs)</a> " for information on error codes.
	Type	ASCII string
	Number of occurrences	1
version	Description	The version of the API.
	Type	ASCII string

Element name	Item	Item description
	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.
	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	<i>yyyy-MM-ddTHH:mm:ss.SSSZ</i> For example, use 2012-04-01T00:00:00.000+0900 for the 12:00 A.M. and 00.000 seconds on April 1, 2012 in timezone UTC+9:00.  If this is omitted, the default value is the information of tenant with unset the delete date.
[deletedTenant]	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".



Parameter name	Item	Item description
[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 " <a href="#">Appendix B List of Response Status Error Codes(Accounting APIs)</a> " for information on error codes.
	Type	ASCII string

Element name	Item	Item description
	Number of occurrences	1
version	Description	The version 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 element).
displayName	Description	Display name.
	Type	ASCII string
	Number of occurrences	As many as there are tenant elements (1 elements for each element).
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 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 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 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 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 element).
deleteDate	Description	The time and date of delete the tenant.
	Type	Date string
	Number of occurrences	As many as there are tenant elements (1 elements for each 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>
      <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.