

FUJITSU Software

ServerView Resource Orchestrator

Cloud Edition V3.4.0

A decorative horizontal band with a red-to-dark-red gradient, featuring abstract white and light red curved lines and glowing points.

User's Guide

for Tenant Users

Windows/Linux

J2X1-8174-01ENZ0(00)
October 2020

Preface

Purpose of This Document

This manual provides an outline of FUJITSU Software ServerView Resource Orchestrator Cloud Edition (hereinafter Resource Orchestrator) and the operations and settings required for setup.

Intended Readers

This document is intended for Tenant user who use the resources of a tenant that they own.

Structure of This Document

This manual is composed as follows:

[Chapter 1 Overview](#)

Explains an overview of the ROR console.

[Chapter 2 Login and Logout](#)

Explains how to log in and out of the ROR console.

[Chapter 3 Home](#)

Explains the ROR console Home window display.

[Chapter 4 System Conditions](#)

Explains how to monitor system conditions.

[Chapter 5 L-Platform](#)

Explains how to manage L-Platforms and display the event logs.

[Chapter 6 Request](#)

Explains how to operate the application list.

[Chapter 7 Account](#)

Explains how to perform account operations.

[Appendix A Emails Sent during L-Platform Operations](#)

Describes the flow and content of emails sent during L-Platform operations.

Web Site URLs

URLs provided as reference sources within the main text are correct as of October 2020.

Document Conventions

The notation in this manual conforms to the following conventions.

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

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

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

[Windows Manager]

Sections related to Windows manager

[Linux Manager]

Sections related to Linux manager

[Windows]

Sections related to Windows

[Linux]

Sections related to Linux

[Red Hat Enterprise Linux]

Sections related to Red Hat Enterprise Linux

[Solaris]

Sections related to Solaris

[VMware]

Sections related to VMware

[Horizon View]

Sections related to VMware Horizon View

[Hyper-V]

Sections related to Hyper-V

[Xen]

Sections related to RHEL5-Xen

[KVM]

Sections related to RHEL-KVM

[Solaris Zones]

Sections related to Solaris Zones (Solaris 10) and Solaris Zones (Solaris 11)

[Solaris Zones (Solaris 10)]

Sections related to Solaris Zones with Solaris 10 VM hosts

[Solaris Zones (Solaris 11)]

Sections related to Solaris Zones with Solaris 11 VM hosts

[OVM for x86]

Sections related to Oracle VM Server for x86 2.2 and Oracle VM Server for x86 3.x

[OVM for x86 2.2]

Sections related to Oracle VM Server for x86 2.2

[OVM for x86 3.x]

Sections related to Oracle VM Server for x86 3.2 and Oracle VM Server for x86 3.3

[OVM for SPARC]

Sections related to Oracle VM Server for SPARC

[Citrix Xen]

Sections related to Citrix XenServer

[Physical Servers]

Sections related to physical servers

[Trend Micro OfficeScan]

Sections related to Trend Micro OfficeScan

[Symantec]

Sections related to Symantec Endpoint Protection

[McAfee]

Sections related to McAfee ePolicy Orchestrator

- Unless specified otherwise, the blade servers mentioned in this manual refer to PRIMERGY BX servers.
- Oracle Solaris may also be indicated as Solaris, Solaris Operating System, or Solaris OS.
- Oracle Solaris Zones may also be indicated as Solaris Containers or Solaris Container.
- Oracle VM Server for x86 may also be indicated as Oracle VM.
- In Resource Orchestrator, the following servers are referred to as SPARC Enterprise.
 - SPARC Enterprise M3000/M4000/M5000/M8000/M9000
 - SPARC Enterprise T5120/T5140/T5220/T5240/T5440
- In Resource Orchestrator, the following servers are referred to as SPARC M12.
 - SPARC M12-1/M12-2/M12-2S
- In Resource Orchestrator, the following servers are referred to as SPARC M10.
 - SPARC M10-1/M10-4/M10-4S
- Fujitsu SPARC M12 is the product name used for SPARC M12 when they are sold outside Japan.
- Fujitsu M10 is the product name used for SPARC M10 when they are sold outside Japan.
- In this manual, Fujitsu SPARC M12 is referred to as SPARC M12.
- In this manual, Fujitsu M10 is referred to as SPARC M10.
- In this manual, Fujitsu SPARC M12 and Fujitsu M10 are collectively referred to as SPARC M10/M12.
- In Resource Orchestrator, the following software is referred to as GLS.
 - PRIMECLUSTER GLS 4.4 or earlier
- In Resource Orchestrator, the following software is referred to as GDS.
 - PRIMECLUSTER GDS 4.4 or earlier
- References and character strings or values requiring emphasis are indicated using double quotes (").
- GUI items are shown enclosed by brackets ([]).
- The order of selecting menus is indicated using []-[] .
- Text to be entered by the user is indicated using bold text.
- Variables are indicated using italic text and underscores.
- The ellipses ("...") in menu names, indicating settings and operation window startup, are not shown.
- The ">" used in Windows is included in usage examples. When using Linux, read ">" as meaning "#".
- When using Resource Orchestrator on Windows 8 and Windows Server 2012, please note the following.
When OS operations are explained in this manual, the examples assume OSs up to Windows 7 and Windows Server 2008. When using Resource Orchestrator on Windows 8 or Windows Server 2012, take explanations regarding the [Start] menu as indicating the [Apps] screen.
The [Apps] screen can be displayed by right-clicking on the [Start] screen and then right-clicking [All apps].
- When using Resource Orchestrator on Windows 8.1 and Windows Server 2012 R2, please note the following.
When OS operations are explained in this manual, the examples assume OSs up to Windows 7 and Windows Server 2008. When using Resource Orchestrator on Windows 8.1 or Windows Server 2012 R2, take explanations regarding the [Start] menu as indicating the [Apps] screen.

The [Apps] screen can be displayed by swiping the [Start] screen from bottom to top, or clicking the downward facing arrow on the lower-left of the [Start] screen.

Menus in the ROR console

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

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

Regarding Installation Folder Paths

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

Replace it as shown below.

[Virtual Edition]

- When using Windows 64-bit (x64)
C:\Program Files (x86)\Resource Orchestrator
- When using Windows 32-bit (x86)
C:\Program Files\Resource Orchestrator

[Cloud Edition]

C:\Program Files (x86)\Resource Orchestrator

Command Examples

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

Abbreviations

The following abbreviations are use in this manual.

Category

Abbreviation

- Products

Windows

Windows

- Microsoft(R) Windows Server(R) 2012 Standard
- Microsoft(R) Windows Server(R) 2012 Datacenter
- Microsoft(R) Windows Server(R) 2012 R2 Essentials
- Microsoft(R) Windows Server(R) 2012 R2 Standard
- Microsoft(R) Windows Server(R) 2012 R2 Datacenter
- Microsoft(R) Windows Server(R) 2016 Standard
- Microsoft(R) Windows Server(R) 2016 Datacenter
- Microsoft(R) Windows Server(R) 2019 Standard
- Microsoft(R) Windows Server(R) 2019 Datacenter

- Windows(R) 7 Professional
- Windows(R) 7 Ultimate
- Windows(R) 8.1 Pro
- Windows(R) 8.1 Enterprise
- Windows(R) 10 Pro
- Windows(R) 10 Enterprise

Windows Server 2012

- Microsoft(R) Windows Server(R) 2012 Standard
- Microsoft(R) Windows Server(R) 2012 Datacenter
- Microsoft(R) Windows Server(R) 2012 R2 Essentials
- Microsoft(R) Windows Server(R) 2012 R2 Standard
- Microsoft(R) Windows Server(R) 2012 R2 Datacenter

Windows Server 2016

- Microsoft(R) Windows Server(R) 2016 Standard
- Microsoft(R) Windows Server(R) 2016 Datacenter

Windows Server 2019

- Microsoft(R) Windows Server(R) 2019 Standard
- Microsoft(R) Windows Server(R) 2019 Datacenter

Windows PE

- Microsoft(R) Windows(R) Preinstallation Environment

Windows 7

- Windows(R) 7 Professional
- Windows(R) 7 Ultimate

Windows 8.1

- Windows(R) 8.1 Pro
- Windows(R) 8.1 Enterprise

Windows 10

- Windows(R) 10 Pro
- Windows(R) 10 Enterprise

DOS

- Microsoft(R) MS-DOS(R) operating system, DR DOS(R)

MSFC

- Microsoft(R) Windows Server(R) 2012 Standard Failover Cluster
- Microsoft(R) Windows Server(R) 2012 Datacenter Failover Cluster

SCVMM

- Microsoft(R) System Center 2012 Virtual Machine Manager
- Microsoft(R) System Center 2012 R2 Virtual Machine Manager

- Microsoft(R) System Center 2016 Virtual Machine Manager

Linux

Linux

- Red Hat(R) Enterprise Linux(R) 6.0 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.0 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.1 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.2 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.3 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.4 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.5 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.6 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.7 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.8 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.9 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.9 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.10 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.10 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.0 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.1 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.2 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.4 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.5 (for Intel64)
- SUSE(R) Linux Enterprise Server 10 Service Pack 2 for x86
- SUSE(R) Linux Enterprise Server 10 Service Pack 2 for AMD64 & Intel64
- SUSE(R) Linux Enterprise Server 10 Service Pack 3 for x86
- SUSE(R) Linux Enterprise Server 10 Service Pack 3 for AMD64 & Intel64
- SUSE(R) Linux Enterprise Server 11 for x86
- SUSE(R) Linux Enterprise Server 11 for AMD64 & Intel64
- SUSE(R) Linux Enterprise Server 11 Service Pack 1 for x86

- SUSE(R) Linux Enterprise Server 11 Service Pack 1 for AMD64 & Intel64
- Oracle Enterprise Linux Release 6.7 for x86 (32-bit)
- Oracle Enterprise Linux Release 6.7 for x86_64 (64-bit)
- Oracle Enterprise Linux Release 7.2 for x86 (32-bit)
- Oracle Enterprise Linux Release 7.2 for x86_64 (64-bit)

Red Hat Enterprise Linux

- Red Hat(R) Enterprise Linux(R) 6.0 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.0 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.1 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.2 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.3 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.4 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.5 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.6 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.7 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.8 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.9 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.9 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.10 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.10 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.0 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.1 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.2 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.4 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.5 (for Intel64)

Red Hat Enterprise Linux 6

- Red Hat(R) Enterprise Linux(R) 6.0 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.0 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.1 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64)

- Red Hat(R) Enterprise Linux(R) 6.2 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.3 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.4 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.5 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.6 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.7 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.8 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.9 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.9 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 6.10 (for x86)
- Red Hat(R) Enterprise Linux(R) 6.10 (for Intel64)

Red Hat Enterprise Linux 7

- Red Hat(R) Enterprise Linux(R) 7.0 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.1 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.2 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.4 (for Intel64)
- Red Hat(R) Enterprise Linux(R) 7.5 (for Intel64)

SUSE Linux Enterprise Server

- SUSE(R) Linux Enterprise Server 10 Service Pack 2 for x86
- SUSE(R) Linux Enterprise Server 10 Service Pack 2 for AMD64 & Intel64
- SUSE(R) Linux Enterprise Server 10 Service Pack 3 for x86
- SUSE(R) Linux Enterprise Server 10 Service Pack 3 for AMD64 & Intel64
- SUSE(R) Linux Enterprise Server 11 for x86
- SUSE(R) Linux Enterprise Server 11 for AMD64 & Intel64
- SUSE(R) Linux Enterprise Server 11 Service Pack 1 for x86
- SUSE(R) Linux Enterprise Server 11 Service Pack 1 for AMD64 & Intel64

Oracle Enterprise Linux

- Oracle Enterprise Linux Release 6.7 for x86 (32-bit)
- Oracle Enterprise Linux Release 6.7 for x86_64 (64-bit)
- Oracle Enterprise Linux Release 7.2 for x86 (32-bit)
- Oracle Enterprise Linux Release 7.2 for x86_64 (64-bit)

KVM

RHEL-KVM

- Red Hat(R) Enterprise Linux(R) 6.1 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.1 (for Intel64) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.2 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.2 (for Intel64) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.3 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.3 (for Intel64) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.4 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.4 (for Intel64) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.5 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.5 (for Intel64) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.6 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.6 (for Intel64) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.7 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.7 (for Intel64) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.8 (for x86) Virtual Machine Function
- Red Hat(R) Enterprise Linux(R) 6.8 (for Intel64) Virtual Machine Function

Xen

Xen

- Citrix XenServer(R) 5.5
- Citrix Essentials(TM) for XenServer 5.5, Enterprise Edition
- Citrix XenServer(R) 6.0
- Citrix Essentials(TM) for XenServer 6.0, Enterprise Edition

Citrix

Citrix XenServer

- Citrix XenServer(R) 6.0
- Citrix XenServer(R) 6.0.2
- Citrix XenServer(R) 6.1.0
- Citrix XenServer(R) 6.2.0
- Citrix XenServer(R) 7.1 LTSR
- Citrix XenServer(R) 7.2
- Citrix Hypervisor(R)

XenServer 6

- Citrix XenServer(R) 6.0
- Citrix Essentials(TM) for XenServer 6.0, Enterprise Edition

Citrix XenApp

- Citrix XenApp(R)
- Citrix Virtual Apps(R)

Citrix XenDesktop

- Citrix XenDesktop(R)
- Citrix Virtual Apps and Desktops(R)

Oracle Solaris

Solaris

- Oracle Solaris 10 05/09 (Update7)
- Oracle Solaris 11 11/11
- Oracle Solaris 11.1
- Oracle Solaris 11.2
- Oracle Solaris 11.3

Oracle VM

OVM for x86 2.2

- Oracle(R) VM Server for x86 2.2

OVM for x86 3.x

OVM for x86 3.2

- Oracle VM Server for x86 v3.2.x

OVM for x86 3.3

- Oracle VM Server for x86 v3.3.x

OVM for SPARC

- Oracle(R) VM Server for SPARC

Oracle VM Manager

- Oracle(R) VM Manager

EMC

Navisphere

- EMC Navisphere Manager

Solutions Enabler

- EMC Solutions Enabler

VMware

VMware vSphere or vSphere

- VMware vSphere(R) 4
- VMware vSphere(R) 4.1
- VMware vSphere(R) 5

- VMware vSphere(R) 5.1
- VMware vSphere(R) 5.5
- VMware vSphere(R) 6
- VMware vSphere(R) 6.5
- VMware vSphere(R) 6.7

VMware ESX

- VMware(R) ESX(R)

VMware ESX 4

- VMware(R) ESX(R) 4

VMware ESXi

- VMware(R) ESXi(TM)

VMware ESXi 5.0

- VMware(R) ESXi(TM) 5.0

VMware ESXi 5.1

- VMware(R) ESXi(TM) 5.1

VMware ESXi 5.5

- VMware(R) ESXi(TM) 5.5

VMware ESXi 6.0

- VMware(R) ESXi(TM) 6.0

VMware ESXi 6.5

- VMware(R) ESXi(TM) 6.5

VMware ESXi 6.7

- VMware(R) ESXi(TM) 6.7

VMware Infrastructure Client

- VMware(R) Infrastructure Client

VMware Tools

- VMware(R) Tools

VMware vSphere 4.0 or vSphere 4.0

- VMware vSphere(R) 4.0

VMware vSphere 4.1 or vSphere 4.1

- VMware vSphere(R) 4.1

VMware vSphere 5 or vSphere 5

- VMware vSphere(R) 5

VMware vSphere 5.1 or vSphere 5.1

- VMware vSphere(R) 5.1

VMware vSphere 5.5 or vSphere 5.5

- VMware vSphere(R) 5.5

VMware vSphere 6.0 or vSphere 6.0

- VMware vSphere(R) 6.0

VMware vSphere 6.5 or vSphere 6.5

- VMware vSphere(R) 6.5

VMware vSphere 6.7 or vSphere 6.7

- VMware vSphere(R) 6.7

VMware vSphere Client or vSphere Client

- VMware vSphere(R) Client

VMware vCenter Server or vCenter Server

- VMware(R) vCenter(TM) Server

VMware vCenter Server Appliance or vCenter Server Appliance

- VMware(R) vCenter(TM) Server Appliance(TM)

VMware vClient

- VMware(R) vClient(TM)

VMware FT

- VMware(R) Fault Tolerance

VMware DRS

- VMware(R) Distributed Resource Scheduler

VMware DPM

- VMware(R) Distributed Power Management

VMware Storage VMotion

- VMware(R) Storage VMotion

VMware vDS

- VMware(R) vNetwork Distributed Switch

VMware Horizon View

- VMware Horizon View 5.2.x
- VMware Horizon View 5.3.x
- VMware Horizon 6.0 (with View)

VMware VSAN or VSAN

- VMware(R) Virtual SAN(TM)

VMware vSphere Web Client or vSphere Web Client

- VMware vSphere(R) Web Client

VMware NSX

- VMware NSX(R)
- VMware NSX(R) for vSphere(R)
- VMware NSX(R) for vSphere(R) 6.3

VMware NSX Controller or NSX Controller

- VMware NSX(R) Controller(TM)

VMware NSX Edge or NSX Edge

- VMware NSX(R) Edge(TM)

VMware NSX Manager or NSX Manager

- VMware NSX(R) Manager(TM)

Excel

Excel

- Microsoft(R) Office Excel(R) 2007
- Microsoft(R) Office Excel(R) 2010
- Microsoft(R) Office Excel(R) 2013

Excel 2007

- Microsoft(R) Office Excel(R) 2007

Excel 2010

- Microsoft(R) Office Excel(R) 2010

Excel 2013

- Microsoft(R) Office Excel(R) 2013

Browsers

Internet Explorer

- Internet Explorer(R) 11

Firefox

- Firefox(R)

Antivirus Software

OfficeScan

- Trend Micro OfficeScan

McAfee ePolicy Orchestrator

- McAfee(R) ePolicy Orchestrator(R)

McAfee ePO

- McAfee(R) ePolicy Orchestrator(R)

McAfee Agent

- McAfee(R) Agent

McAfee Endpoint Security

- McAfee(R) Endpoint Security

Symantec Endpoint Protection

- Symantec(TM) Endpoint Protection

Symantec Endpoint Protection Manager

- Symantec(TM) Endpoint Protection Manager

BMC

BladeLogic

- BMC BladeLogic Server Automation

ETERNUS

ESC

- ETERNUS SF Storage Cruiser

ServerView

ServerView Agent

- ServerView SNMP Agents for MS Windows (32-bit and 64-bit)
- ServerView Agents Linux
- ServerView Agents VMware for VMware ESX Server

VIOM

- ServerView Virtual-IO Manager

ISM

- ServerView Infrastructure Manager
- Infrastructure Manager

SVOM

- ServerView Operations Manager

SVFAB

- ServerView Fabric Manager

RCVE

- ServerView Resource Coordinator VE

ROR

- FUJITSU Software ServerView Resource Orchestrator

ROR VE

- FUJITSU Software ServerView Resource Orchestrator Virtual Edition

ROR CE

- FUJITSU Software ServerView Resource Orchestrator Cloud Edition

Resource Coordinator

- Systemwalker Resource Coordinator
- Systemwalker Resource Coordinator Virtual server Edition

Resource Coordinator VE

- ServerView Resource Coordinator VE
- Systemwalker Resource Coordinator Virtual server Edition

Resource Orchestrator

- FUJITSU Software ServerView Resource Orchestrator

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- The contents of this manual are subject to change without notice.

Revision History

Month/Year Issued, Edition	Manual Code
October 2020, First Edition	J2X1-8174-01ENZ0(00)

Copyright Notice

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Chapter 1 Overview

This chapter explains the ROR console.

1.1 Function List

This section explains the functions provided by ROR console.

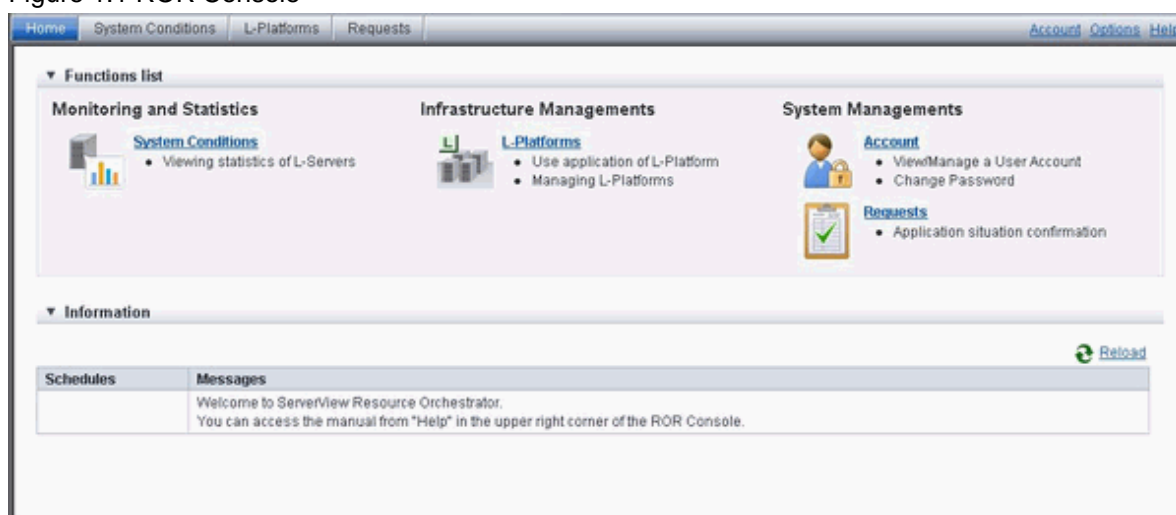
ROR console has two parts: "operation windows for tenant administrators and tenant users" and "operation windows for infrastructure administrators".

Windows intended for Tenant Administrators and tenant users are provided for L-Platform and user information operations. These windows are configured by Tenant Administrators themselves, and have been provided to reduce the Infrastructure Administrator workload.

The operation window regarding L-Platform and user information and the dashboard window for monitoring resource operation status and usage rate of resource pools are provided for infrastructure administrators. These windows are provided to enable Infrastructure Administrators to display and operate all L-Platform and tenant information and to access important information quickly.

The ROR console displays are customized for the user's role, to provide appropriate functions to each user. For example, tabs that the current user cannot operate are not displayed.

Figure 1.1 ROR Console



The table below shows the functions provided by the ROR console.

These functions correspond to the tabs displayed at the top of the ROR console.

Function	Overview	Tenant user
Home	The window displayed immediately after login to the ROR console. A function list and notifications are displayed.	Yes
System Conditions	Displays L-Server performance information and configuration information	Yes
L-Platform	A window for managing L-Platform	Yes
Request	A window for assessing and approving L-Platform usage applications and other applications from tenant users	Yes
Account	A window for changing a logged in user's information and password	Yes
Option	Sets the [Home] Tab as the window displayed at login.	Yes
Help	Displays this product's manual	Yes

Yes: Displayed (However, some functions may not be displayed according to the user's access rights. For details on privileges, check with the infrastructure administrator.)

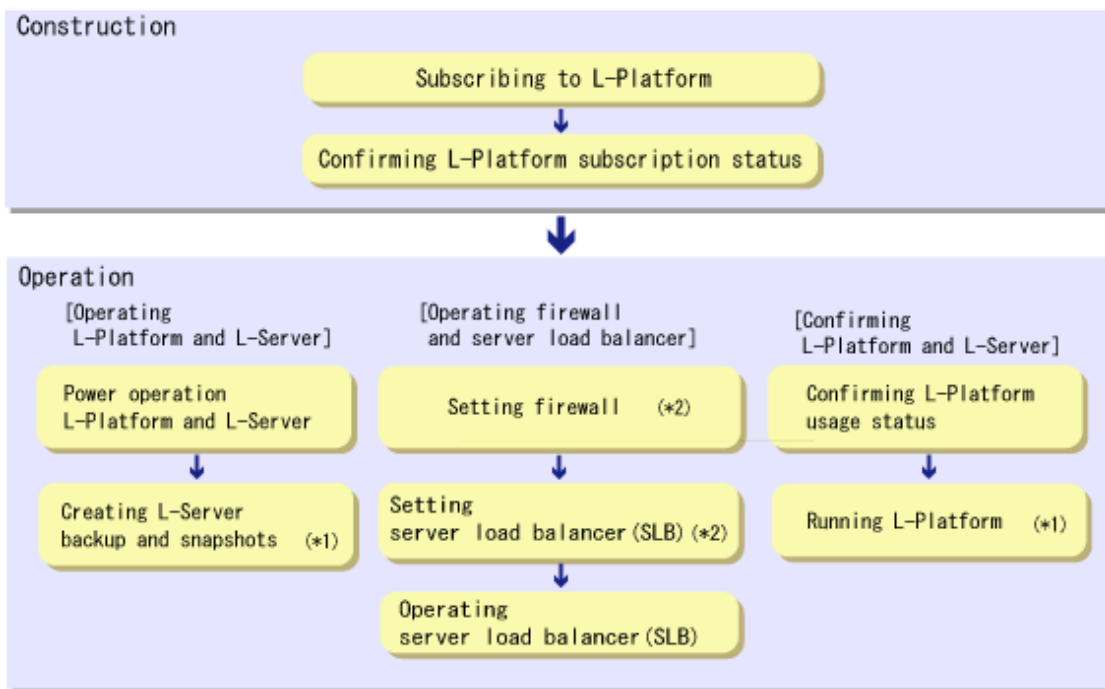
No: Not displayed

Refer to "Chapter 3 Home", and subsequent chapters for information on these functions.

1.2 Flow of Operations

This section explains the flow of operations using the ROR console, from construction to operation, maintenance, and monitoring.

Flow from Construction to Operation (Tenant User)



*1: This is not required. Perform if necessary.

*2: This is required if there is a firewall or server load balancer (SLB).

Construction

1. Subscribing to L-Platform
Subscribe to L-Platform usage.
Refer to "[5.2 Subscribe to an L-Platform](#)" for details.
2. Confirming L-Platform subscription status
Check the L-Platform subscription status.
Refer to "[5.3 L-Platform Management](#)" for details.

Operation

[Operating L-Platform and L-Server]

1. Power operation L-Platform and L-Server
Perform L-Platform and L-Server power and other operations.
Refer to "[5.3.3 Start and Stop the Server](#)" and "17.1 Power Operations" in the "User's Guide for Infrastructure Administrators (Resource Management) CE" for details.

2. Creating L-Server backup and snapshots
 If required, create an L-Server backup snapshot.
 Refer to "5.3.5 Take and Restore Snapshot" and "5.3.6 Physical Server Backup and Restore" for details.

[Operations on the Firewall/Server Load Balancer (SLB)]

1. Configuring the firewall
 Configure the firewall if necessary.
 Refer to "5.3.7 Setup Firewall" for details.
2. Configuring the server load balancer (SLB)
 Configure the server load balancer (SLB) if necessary.
 Refer to "5.3.8 Server Load Balancer (SLB) Settings" and "5.7 Server Load Balancer (SLB) Operation Procedure" for details.
3. Operating the server load balancer (SLB)
 Operate the server load balancer (SLB) if necessary.
 Refer to "5.3.9 Server Load Balancer (SLB) Operations" and "5.7 Server Load Balancer (SLB) Operation Procedure" for details.

[Confirming L-Platform and L-Server]

1. Confirming L-Platform usage status
 Check the status of L-Platform disk usage and other usage.
 Refer to "Chapter 4 System Conditions" for details.
2. Running L-Platform
 If required, add servers and disks for the L-Platform.
 Refer to "5.3.11 L-Platform Reconfiguration" for details.

1.3 First Steps Before Using the ROR Console

This section describes the first steps that need to be performed before using the ROR console.

1.3.1 New User Registration Tasks



Point

The following two methods are available for registering a tenant user:

- The tenant users perform user registration themselves using a virtual account that the Tenant Administrator has registered from the [Register User] window
- The Tenant Administrator registers a tenant user from the [Register User] window

The tenant user registration method is set by the system administrator.

This section explains the registration tasks that should be performed by a user who has applied via the Tenant Administrator for new registration. A registration instruction email is sent to such a user.

Follow the registration procedures given in the instruction email.

Note that the registration application becomes invalid if the registration procedure is not performed within 24 hours of receiving the instruction email.

Follow the procedure below to register a new user:

1. Click the URL in the user registration mail.
 The [Register User] page will be displayed.

Item	Description
Temporary password	Specify the temporary password given in the tenant user registration mail.

2. Enter in the [Temporary password] field the temporary password given in the user registration mail. Review and agree with the license agreement, and click the [Advance to registration procedure] button.

The input window for the user information will be displayed.
The following window is an example for internal authentication.

Item	Description
E-Mail address	User's E-mail address registered at a temporary account is displayed. It is not possible to change.
User ID	[When using internal authentication, or when using the directory service provided with ServerView Operations Manager using Single Sign-On authentication] Specify a registration user ID. Specify a character string of 1 to 32 characters consisting of single-byte lower-case alphabetic and numerics, hyphens (-), underscores (_), and periods (.), and starting with lower case alphabet or numbers. This specification is mandatory. [When using Active Directory for the directory service] Specify a registration user ID. Specify a character string of 1 to 20 characters consisting of single-byte lower-case alphabetic and numerics, hyphens (-), underscores (_), and periods (.), and starting with lower case alphabet or numbers. Period cannot be used as the last character. This specification is mandatory.
Description	Specify a description for the user ID of the user, using up to 256 characters.
Password	Specify the user password. Specify between 8 and 64 characters, using single-byte alphanumeric and symbols. The specification is case sensitive. This field cannot be omitted.
Password (confirm)	Re-enter a user password for confirmation. This field cannot be omitted.

Personal information		
	Name	Specify the first name and last name separately for the user. Use up to 15 characters for each name. Be sure to specify this item.
	Company name or organization name	Specify the company name or organization name, using up to 30 characters.
Emergency contact details		
	E-mail address	Specify an email address for receiving emergency contact notifications, using up to 64 characters.
	E-mail address (confirm)	Re-enter an email address for receiving emergency contact notifications.
	Telephone number	Specify an emergency contact phone number.

3. Enter the user information and click the [Next] button.
The confirmation window of the registration information will be displayed.
4. Confirm the registration information, and click the [Register] button.
The registration completion window will be displayed.
5. Click the [Close] button, processing is ended.

When user registration is completed, the registration content is sent to the registered user, the Tenant Administrator, and the tenant Email address.

1.3.2 Notification of User Password Setting

If the password is changed by tenant administrator, changed password will be sent to the user by E-mail with the title below. In this case, it is recommended to set a different password immediately.

Title of mail : [Important information]Setting of user password

Chapter 2 Login and Logout

This chapter describes how to open and close the ROR console.

Preparations

Before opening the ROR console, be sure to read the following instructions and restrictions.

- The ROR console uses the Web browser's standard fonts and is designed to be viewed in a window of 1024 by 768 pixels (Recommendation value: 1280 by 768 pixels) or larger. When using a monitor with a higher resolution than this, it is recommended to enlarge the screen size. Extremely resizing the Web browser or scaling the screen may cause the display to collapse.
- Surrogate pair characters cannot be used on the ROR Console.
- In environments where the admin server is Windows, and multiple IP addresses are used, when a login window with a different URL from the address bar's URL in which the IP address or host name (FQDN) is specified, the warning may not disappear. Also, the following may occur.
 - The login window is not displayed
 - A certificate error occurs even though the certificate is registered

Use the following procedure as the corrective action for the above.

- For Windows Server 2012 or later

Set the interface metric value smaller than any other interfaces used by the admin server.
The metric values of each interface can be checked by using the "netstat -r" command.



Example

For Microsoft(R) Windows Server(R) 2012 Standard

1. Press the [Windows Logo] + [R] keys.
The [Run] dialog is displayed.
2. Enter "ncpa.cpl", and click the [OK] button.
3. Right-click [Network Interface], and click [Properties].
4. Click [Internet Protocol Version 4(TCP/IPv4)], and then click [Properties].
5. Click [Advanced] on the [General] tab.
6. Clear the [Automatic metric] checkbox on the [IP Settings] tab, and enter the metric [Interface metric] field.

- When opening the ROR console with Internet Explorer, read the following additional instructions and restrictions.
 - When accessing the ROR console, be sure to enable the Compatibility View in Internet Explorer. Select [View]-[Encoding] in Internet Explorer, and check if [Auto-Select] is checked. If [Auto-Select] is not checked, select it.
 - When downloading files using the ROR console, it is necessary to disable [Do not save encrypted pages to disk] in the Advanced Settings of the browser.
 - The ROR console uses JavaScript, Active Script, Cookies, and IFRAMEs. These must be enabled in the Web browser settings before using the ROR console. Use TLS 1.0 or TLS 1.2.
 - Specify either one of the following for the Web browser pop-up blocker:
 - Disable the pop-up blocker
 - Add the URL of the ROR Console to the **Address of web site to allow** setting.
Check with the system administrator for the URL of the ROR Console.
 - When opening the ROR console right after launching a Web browser, a warning window concerning the site's security certificate will be displayed.
The following message is displayed: "There is a problem with this web site's security certificate.". This warns the user that Resource

Orchestrator uses a self-signed certificate to encrypt its HTTPS (SSL) communication with the Web browser. Resource Orchestrator generates a unique, self-signed certificate for each admin server during manager installation. Within a firewall-protected intranet, a network where the risk of identity theft is low, or where all correspondents are trusted, there is no risk in using self-signature certificates for communications. Accept the warning to display the Resource Orchestrator login screen.

The login screen can be displayed by selecting the following option: "Continue to this web site (not recommended).".

- The background of the address bar will become red and the words "Certificate Error" will be displayed on the right side of the address bar of the login screen, the ROR console, and BladeViewer.
Furthermore, the Phishing Filter may show a warning on the status bar. These warnings are referring to the same self-signed certificate issue discussed in the previous bullet. It is safe to continue with the current browser settings.
- To stop displaying the security certificate warning screen and the certificate error icon, create a certificate associated with the IP address or hostname of the admin server and add it to the Web browser.
Refer to "Appendix B HTTPS Communications" in the "Design Guide CE" for details.
- Add the URL of the ROR console to the "Trusted sites" of the browser.
- When opening the ROR console with Firefox, read the following additional instructions and restrictions.
 - Confirm that the "Allow pages to choose their own fonts, instead of my selections above" is checked in the [Advanced] setting in [Options]-[Content]-[Fonts & Colors]. If it is not checked, check it.
 - The ROR console uses JavaScript, Cookies, and IFRAMES. These must be enabled in the Web browser settings before using the ROR console. Use TLS 1.0 or TLS 1.2.
 - Specify either one of the following for the Web browser pop-up blocker:
 - Disable the pop-up blocker
 - Add the URL of the ROR Console to the **Address of web site to allow** setting.
Check with the system administrator for the URL of the ROR Console.
 - Create a certificate associated with the IP address or hostname of the admin server and add it to the Web browser.
Refer to "Appendix B HTTPS Communications" in the "Design Guide CE" for detail instructions to create and install certificate.
- After upgrading managers or applying patches, it is necessary to delete your Web browser's cache.
For the method for deleting the cache, refer to "C.5 Client" in the "Setup Guide CE".
- If you are using TLS 1.2, you must run the TLS 1.2 enabled script after applying the following update. Refer to update Information file for details.
 - [Windows Manager] T015389WP-01 or later
 - [Linux Manager] T015391LP-01 or later

Opening the ROR Console

This section explains how to access the ROR console.

Start a Web browser from an admin client and specify the URL of the ROR console for connection.

If the port number was changed, specify the new port number.

When using internal authentication, the login window for Resource Orchestrator will be displayed.

When Single Sign-On has been configured, the login window for Single Sign-On is displayed.

However, when Single Sign-On authentication has already been performed, the ROR console can be started without displaying the login window.

For details on Single Sign-On, refer to "Chapter 12 Configuring Single Sign-On" in the "Design Guide CE".

URL: <code>https://Admin_server_FQDN:23461/</code>
--

On a Windows admin server, the ROR console can also be opened by selecting [start]-[All Programs]-[ServerView Resource Orchestrator]-[ROR Console].

Note

- If the login screen is not displayed, check that the following settings are correct.
 - URL entered in address bar of the Web browser.
 - The proxy settings of the Web browser are correct.
 - The firewall settings on the admin server are correct.
 - If already logged in from another Web browser window, login may be performed automatically (without displaying the login screen).
-

Login

- In the login screen, enter the following items, and click the [Login] button.
The ROR console is displayed after a successful login.
 - User ID
 - Password
- When logging in for the first time, the [Home] tab is displayed. When logging in for the second time and successive times, the tab that was displayed at the last logout is displayed.

It is also possible for each user to set whether the [Home] tab is to be displayed at login. To change the option, click "Options" in the upper right corner of the ROR Console. This option is not reflected on the backup site during switchover due to Disaster Recovery. Each user has to change the option individually after switchover.
- When login to the ROR console fails using Single Sign-On authentication, configuration of the environment may have failed.

Stop the manager, and reconfigure Single Sign-On.
For details on how to reconfigure Single Sign-On, refer to "8.10 Reconfiguring Single Sign-On" in the "Operation Guide CE".

Logout

To log out, select "Logout" in the global header, and click the [OK] button in the confirmation dialog.

Note

- If the Web browser is closed without logging out first, user authentication may be skipped the next time Resource Orchestrator is accessed. In that case, users will be automatically logged in using the previously used session.
It is advised that the users log out properly after using the ROR console or BladeViewer.
 - If the ROR console or BladeViewer has been opened simultaneously in several Web browser windows, those login sessions may be terminated.
-

Exit

To exit the ROR console, simply close the Web browser window.

Chapter 3 Home

This chapter explains the ROR Console Home window.

When the ROR Console is started, the Home window is displayed. Refer to "[Chapter 2 Login and Logout](#)" for information on how to start the ROR Console.

The elements of the Home window are explained below.

- Functions list

The functions list displays the items that can be operated using ROR Console tabs.

Click the triangle icon next to the Function list to toggle Display/Hide.

- Information

Information from the System Administrator and Infrastructure Administrator is displayed.

Chapter 4 System Conditions

This chapter explains how to monitor system conditions.

The configuration information of L-Platforms and L-Servers and the performance information of L-Servers can be checked in the operational status.



The following message may be displayed during monitoring of system conditions:

The authority error occurred. Closing the browser.

This error occurs if, for example, the same user ID is used to log in from a different client. In this case, log in again correctly.

4.1 System Conditions Display Range

The system conditions can display the following information for L-Platforms used by a tenant user:

- CPU utilization
- Disk R/W usage
- Disk R/W count
- Memory usage
- Network usage

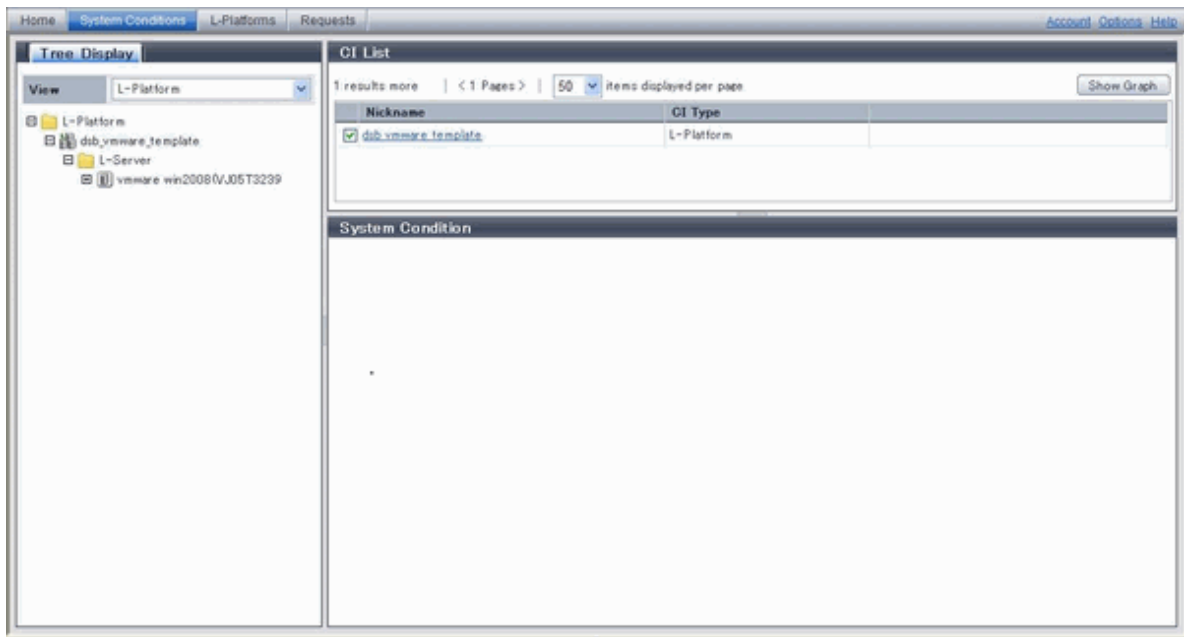
4.2 L-Platform System Conditions Display

Perform the following steps to display the L-Platform system conditions:

1. From the ROR console, select the [System Conditions] tab.
The [System Conditions] window is displayed.

- In the [System Conditions] window, select the [Tree Display] tab.

The configuration of L-Platforms used by tenant users is displayed in the tree at the left.



- From the tree at the left, select the L-Platform for which to display the system conditions.

The selected L-Platform is displayed in the CI list on the right.

If the "L-Platform" folder is selected in the tree, all L-Platforms under the folder are displayed in the CI list.

If an L-Server is selected in the tree, information about the selected server is displayed in the CI list.

The L-Platforms and L-Servers under each folder in the tree are displayed in descending order based on their update date and time.

- Select an L-Platform in the CI list, and then click the [Show Graph] button.

The system conditions is displayed in the lower part of the CI list. Refer to "[4.2.1 System Conditions Display](#)" for information on the displayed system conditions.

The table below explains the displayed items.

Item	Explanation
Nickname	<p>Displays the display name of the configuration item.</p> <p>If the CI list Nickname link is clicked, the configuration information of the target tenant, L-Platform or L-Server is displayed in a separate window. Refer to "4.2.2 Configuration Information Display" for the displayed configuration information.</p> <p>The following display names are displayed in accordance with the CI type:</p> <ul style="list-style-type: none"> - For the tenant CI type: The tenant name determined during tenant registration ("tenant name (tenant ID)") - For the L-Platform CI type: The L-Platform subscription name set during L-Platform subscription - For the L-Server CI type: The L-Server name set during L-Platform subscription or L-Platform reconfiguration ("server name (host name)")
CI Type	<p>This column displays the configuration item type.</p> <p>The CI type displayed depends on the element selected in the tree at the left.</p> <p>The CI types are as follows:</p> <ul style="list-style-type: none"> - Tenant: If a tenant is selected - L-Platform: If an L-Platform is selected

Item	Explanation
	- L-Server: If an L-Server is selected

Note

Clicking the CI list column headers to sort the columns is effective only for the range displayed in that page. The sorting specification is reset when the next or previous page is displayed. Sorting spanning multiple pages is not available.

4.2.1 System Conditions Display

The system conditions of the L-Platforms selected in the system conditions window CI list is displayed as a graph at [System Conditions] in the lower part of the window. Up to five L-Servers can be displayed at once in the graphs. If more than five L-Servers are selected, the first five are displayed.

The system conditions contents can be switched by clicking the [System Conditions] tabs.

The table below shows the contents under the [System Conditions] tabs.

Tab name	Display content (*1)	Graph type	Display interval	Display interval switching (*2)
Total	Totals for each status	Vertical bar graph	30 minutes, starting from the current time	Not possible
CPU	CPU utilization	Horizontal polyline graph	One hour/day/month/year from the current time	Possible
Disk	Disk R/W usage (*3)	Horizontal polyline graph	One hour/day/month/year from the current time	Possible
	Disk R/W count (*4)	Horizontal polyline graph	One hour/day/month/year from the current time	Possible
Memory	Memory usage (*5)	Horizontal polyline graph	One hour/day/month/year from the current time	Possible
Network	Network usage (*6)	Horizontal polyline graph	One hour/day/month/year from the current time	Possible
All	Overview of all the above statuses	Horizontal polyline graph	One hour/day/month/year from the current time	Possible

*1: Information is displayed using a different color for each L-Server.

*2: The display interval can be switched to a shorter interval by clicking the data plotting area of a horizontal polyline graph, or switched to a longer interval by clicking outside the data plotting area.

*3: Disk usage and network usage are not displayed if the server virtualization software is Hyper-V, RHEL5-Xen, Solaris Zones, OVM for x86 3.x, and OVM for SPARC.

*4: The disk R/W count is not displayed if the server virtualization software is Hyper-V, RHEL-KVM, Solaris Zones, and OVM for SPARC.

*5: The memory usage is not displayed if the server virtualization software is Hyper-V, and OVM for SPARC. However, this is displayed if the setting for the dynamic memory in Hyper-V is enabled.

*6: The network usage is not displayed if the server virtualization software is Hyper-V, Solaris Zones, and OVM for SPARC. It is also not displayed if the physical L-Server is Linux/Solaris.

Note

- Information obtained from server virtualization software is displayed in the system conditions. Virtual Memory usage is not included.

- When the server virtualization software of managed servers is VMware, RHEL5-Xen, RHEL-KVM, OVM for x86 3.x, or OVM for SPARC, the graph is not displayed when the manager is stopped because the data cannot be collected. Also, when data cannot be collected temporarily due to restarting of the manager and so on, some of the data is not displayed.
- The system conditions data is not reflected in the display until collection at the fixed intervals shown below is completed. Check the display after the fixed intervals shown below.

Note that, if the contents are empty after a fixed interval, the connection destination L-Platform may be stopped. Contact the Tenant Administrator.

Tab name	Display period (*)	Collection time required before displaying
Total	30 days	one whole day (from 0:00 to 23:59)
CPU Disk Memory Network	one hour	ten whole minutes (from 0 minutes to 9 minutes)
	one day	one whole hour (from 0 minutes to 59 minutes)
	one month/one year	one whole day (from 0:00 to 23:59)

* Note: The display period in each tab except for Total tab can be selected from one hour, one day, one month, or one year.

- System conditions data is not displayed if the power is off at the monitored L-Server.
- If the CPU utilization status continues at 100% at the monitored L-Server, data collection timing may be delayed and an error of about one second may occur. This may cause CPU utilization (average value for a specified unit of time) to exceed 100%. Take into account the possibility of data errors when using this display.

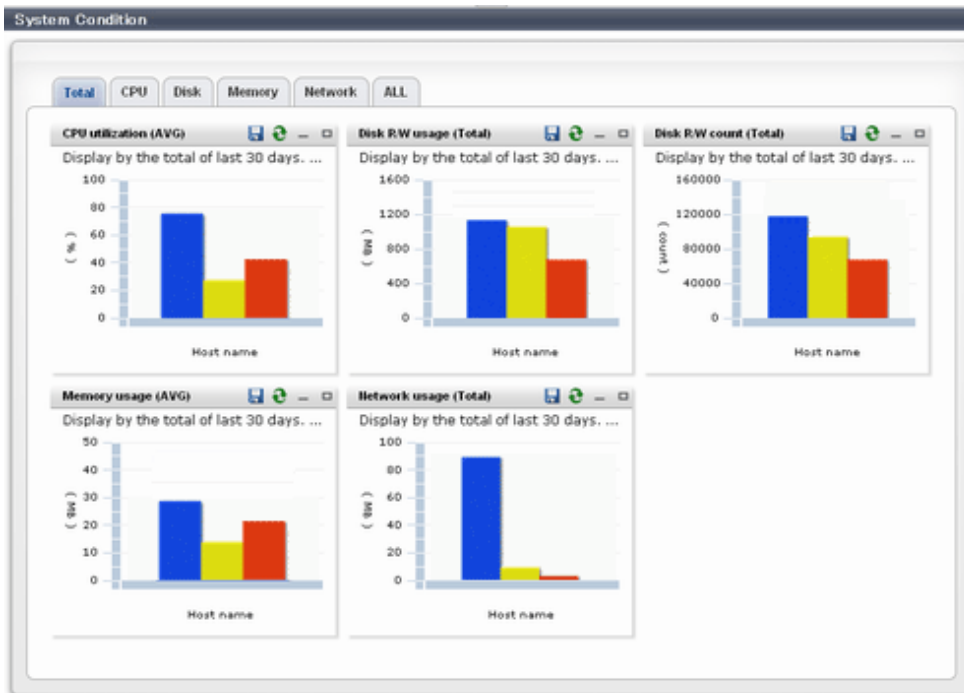
Example:

If a monitored L-Server has one CPU and is displayed in units of one hour, the value in the system conditions graphs and CSV file data may be displayed as 100.03% (60.02 minutes (near equal 3601 seconds)/60 minutes) even though the upper limit for CPU utilization is 100%.

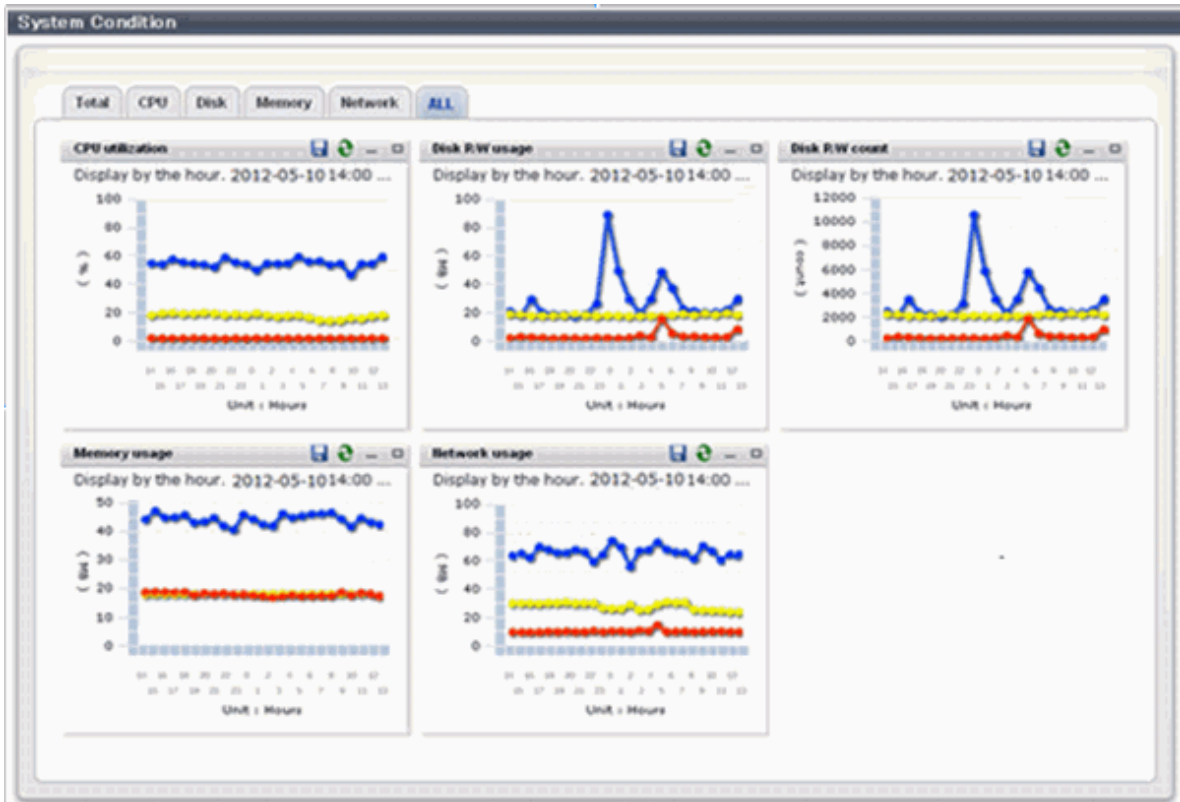


Display examples for the [Total] tab and the [All] tab are shown below.

- [Total] tab



- [All] tab



At each tab, the following icons displayed in the title bar can be used:

Icon	Tool tip	Explanation
	Update	Updates the displayed contents
	Download CSV file	Downloads the graph data in CSV format
	Minimize	Minimizes the specified window
	Maximize	Maximizes the specified window
	Restore	Restores the maximized window

The table below shows the CSV file items if data is downloaded from each graph.

Note that the CSV file encoding is Shift-JIS.

Graph type	Column name	Explanation	Unit	Description
CPU utilization	sdattim	Collection start time (*)		yyyy-mm-dd HH:mm:ss
	resrcid	Resource ID		<ul style="list-style-type: none"> - in case of physical servers and Windows: "#" + CPU number or _Total - in case of physical servers and Linux/Solaris: CPU number or _Total - in case of Hyper-V: VM name + ":Hv VP" + virtual Processer number
	recid	Record ID		Output any of the following

Graph type	Column name	Explanation	Unit	Description
				<ul style="list-style-type: none"> - WIN_CPUBUSY - UX_CPUBUSY - VMW_GCPU - HV_VCPU - XEN_CPU - KVM_CPU - OVMSPARC_CPU
	consintl	Interval time	second	<ul style="list-style-type: none"> - in case of interval time is 10 minutes: 600 - in case of 1 hour: 3600 - in case of 24 hour: 86400
	coverage	Data coverage	(0 to 1)	
	cpupcent	CPU utilization	%	Output for physical servers Processor utilization
	vmgcused	CPU utilization	%	Output only for VMware Physical CPU utilization per virtual machine
	physres	Physical CPU information or virtual CPU information		Output only for VMware
	ptrtim	CPU utilization	%	Output only for Hyper-V Utilization of virtual processors allocated to a virtual machine and consumed by hypervisor code
	xenpcused	CPU utilization	%	Output for RHEL5-Xen/OVM for x86 3.x CPU utilization (total utilization of virtual CPUs set in the domain)
	xencpun	Number of virtual CPUs in the domain	number	Output for RHEL5-Xen/OVM for x86 3.x
	Nickname	VM name		
	kvmcpupcent	CPU utilization	%	Output only for RHEL-KVM CPU utilization (total utilization of virtual CPUs set in the domain)
	kvmcpus	Number of virtual CPUs in the domain		Output only for RHEL-KVM
	zonecpucappct	CPU utilization	%	Output for Solaris Zones CPU utilization (utilization of virtual CPUs set in the zone)
	ovmcpupcent	CPU utilization	%	Output for OVM for SPARC CPU utilization (utilization of virtual CPUs set in the domain)
Disk R/W usage	sdattim	Collection start time (*)		yyyy-mm-dd HH:mm:ss
	resrcid	Resource ID		<ul style="list-style-type: none"> - in case of physical servers and Windows: drive name or _Total - in case of physical servers and Linux/Solaris: device name

Graph type	Column name	Explanation	Unit	Description
	recid	Record ID		Output any of the following - WIN_PHYDISKBUSY - UX_DISKBUSY - VMW_DISK - KVM_DISK
	consintl	Interval time	second	- in case of interval time is 10 minutes: 600 - in case of 1 hour: 3600 - in case of 24 hour: 86400
	coverage	Data coverage	(0 to 1)	
	preadbyt	Disk read usage	bytes	Output only for Windows
	pwritbyt	Disk write usage	bytes	Output only for Windows
	iokreads	Disk read usage	Kbytes	Output only for Linux/Solaris
	iokwrite	Disk write usage	Kbytes	Output only for Linux/Solaris
	vmdmbread	Disk read usage	Mbytes	Output only for VMware Disk read usage for virtual machine and storage device units
	vmdmbwrt	Disk write usage	Mbytes	Output only for VMware Disk write usage for virtual machine and storage device units
	Nickname	VM name		Output for VMware/RHEL5-KVM/physical server
	kvmdiskblockrdby	Disk read usage	bytes	Output only for RHEL-KVM Disk read usage in the domain
	kvmdiskblockwrby	Disk write usage	bytes	Output only for RHEL-KVM Disk write usage in the domain
Disk R/W count	sdattim	Collection start time (*)		yyyy-mm-dd HH:mm:ss
	resrcid	Resource ID		- in case of physical servers and Windows: drive name or _Total - in case of physical servers and Linux/ Solaris: device name
	recid	Record ID		Output any of the following - WIN_PHYDISKBUSY - UX_DISKBUSY - VMW_DISK
	consintl	Interval time	second	- in case of interval time is 10 minutes: 600 - in case of 1 hour: 3600 - in case of 24 hour: 86400
	coverage	Data coverage	(0 to 1)	
	preadsec	Disk read count		Output only for Windows Physical disk read operation count

Graph type	Column name	Explanation	Unit	Description
	pwritesec	Disk write count		Output only for Windows Physical disk write operation count
	ioreads	Disk read count		Output only for Linux/Solaris read count
	iowrite	Disk write count		Output only for Linux/Solaris write count
	vmdreads	Disk read count		Output only for VMware Disk read count for virtual machine and storage device units
	vmdwrites	Disk write count		Output only for VMware Disk write count for virtual machine and storage device units
	vbdrd	Disk read count		Output for RHEL5-Xen/OVM for x86 3.x Virtual block device read count
	vbdwr	Disk write count		Output for RHEL5-Xen/OVM for x86 3.x Virtual block device write count
	Nickname	VM name		Output for VMware/RHEL5-Xen/OVM for x86 3.x /physical server
Memory usage	sdattim	Collection start time (*)		yyyy-mm-dd HH:mm:ss
	resrcid	Resource ID		- in case of physical servers and Windows: MEMORY - in case of physical servers and Linux/ Solaris: FREEMEM
	recid	Record ID		Output any of the following - WIN_MEMORY - UX_MEMFREE - VMW_MEM - HV_DMEN_VM - XEN_MEM - KVM-MEM
	consintl	Interval time		- in case of interval time is 10 minutes: 600 - in case of 1 hour: 3600 - in case of 24 hour: 86400
	coverage	Data coverage	(0 to 1)	
	comtot	Memory usage	bytes	Output only for Windows Commit size
	freememp	Memory usage	bytes	Output only for Linux Memory size utilization for user processes
	memuse	Memory usage	percent	Output only for Linux
	Vmgmtm	Memory usage	Mbytes	Output only for VMware Estimated working set size of resource pool and virtual machine units

Graph type	Column name	Explanation	Unit	Description
	ppmemdmvm	Memory usage	Mbytes	Output only for Hyper-V Current memory capacity of virtual machine
	xenavm	Memory usage	Mbytes	Output for RHEL5-Xen/OVM for x86 3.x Memory capacity allocated to domain
	Nickname	VM name		
	kvmmemused	Memory usage	Mbytes	Output only for RHEL-KVM Memory capacity allocated to domain
	zonememused	Memory usage	Kbytes	Output for Solaris Zones Memory capacity allocated to zone
Network utilization	sdatim	Collection start time (*)		yyyy-mm-dd HH:mm:ss
	resrcid	Resource ID		Output only for Windows Network device name
	recid	Record ID		Output any of the following - WIN_NET_INTERFACE - VMW_NET - XEN_NET - KVM-NET
	consintl	Interval time		- in case of interval time is 10 minutes: 600 - in case of 1 hour: 3600 - in case of 24 hour: 86400
	coverage	Data coverage	(0 to 1)	
	ifbytin	Network usage (received)	bytes	Output only for Windows Amount of received data(byte)
	ifbytot	Network usage (sent)	bytes	Output only for Windows Amount of sent data(byte)
	vmnpmvtr	Network usage (sent)	Mbits	Output only for VMware Amount of data transferred by virtual network device port unit
	vmnpmbrecv	Network usage (received)	Mbits	Output only for VMware Amount of data received by virtual network device port unit
	xenkbtx	Network usage (sent)	Kbytes	Output for RHEL5-Xen/OVM for x86 3.x Amount of data sent by virtual network interface
	xenkbrx	Network usage (received)	Kbytes	Output for RHEL5-Xen/OVM for x86 3.x Amount of data received by virtual network interface
	Nickname	VM name		Output for VMware/RHEL5-Xen/RHEL-KVM/OVM for x86 3.x/and physical servers with Windows OS
	kvmnetrxby	Network usage (received)	bytes	Output only for RHEL-KVM Amount of data sent by virtual network interface

Graph type	Column name	Explanation	Unit	Description
	kvmnettxby	Network usage (sent)	bytes	Output only for RHEL-KVM Amount of data received by virtual network interface

* Note: When the information from the virtual L-server where the live migration was performed is output to CSV, the following phenomena may occur:

- Information for a certain point of time is output twice
- Information for a certain point of time is not output

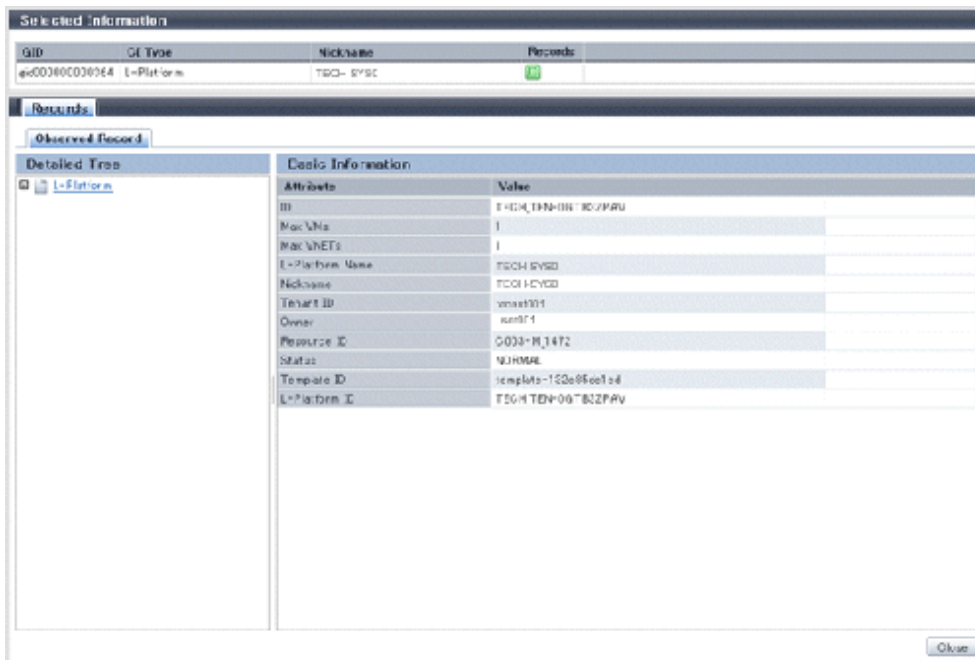
If there is a large difference in the time and date in the VM host where the live migration was performed, the above phenomena will be more likely to occur.

4.2.2 Configuration Information Display

The tenant, L-Platforms and L-Servers displayed in the CI list of the system conditions window are managed as configuration items (CIs).

When the Nickname link in the CI list of the system conditions window is clicked, the configuration information of the target tenant, L-Platform or L-Server is displayed in a separate window.

A display example is shown below.



The table below explains the displayed items.

Item		Explanation
Selected Information	GID	Displays the identifier set by the system to identify the configuration item.
	CI Type	Displays the configuration item type. The CI types are as follows: <ul style="list-style-type: none"> - Tenant: If a tenant is selected - L-Platform: If an L-Platform is selected - L-Server: If an L-Server is selected
	Nickname	Displays the display name of the configuration item. The following display names are displayed in accordance with the CI type:

Item		Explanation	
		<ul style="list-style-type: none"> - For the tenant CI type: The tenant name determined during tenant registration ("tenant name (tenant ID)") - For the L-Platform CI type: The L-Platform subscription name set during L-Platform subscription - For the L-Server CI type: The L-Server name set during L-Platform subscription or L-Platform reconfiguration ("server name (host name)") 	
	Record	Displays the type of records held by the configuration item. [0], indicating the actual information, is displayed.	
Record	Detailed Tree	<p>This is a tree of the elements comprising the configuration item. The following elements are displayed in accordance with the CI type:</p> <ul style="list-style-type: none"> - For the tenant CI type: Tenants - For the L-Platform CI type: Instances - For the L-Server CI type: L-Server node information <p>When an element is selected, the element attribute values are displayed in the basic information. Values are displayed as attribute values, and differ depending on the element:</p> <ul style="list-style-type: none"> - If the element is a tenant: The value determined during tenant registration - If the element is an instance: The value set during L-Platform subscription - If the element is L-Server node information: The value set during L-Platform subscription or L-Platform reconfiguration 	
	Basic Information	Attribute	Displays the attribute name. When the label in the upper part is clicked, items can be sorted by attribute name.
		Value	Displays the attribute value. When the label in the upper part is clicked, items can be sorted by attribute value.
[Close] button		When this button is clicked, the window closes.	

Chapter 5 L-Platform

This chapter explains how to manage L-Platforms and display the event logs.

5.1 Overview of L-Platform Management

Use the [L-Platforms] tab of the ROR console to manage L-Platforms and display the event logs.

The following section explains the menus displayed on the [L-Platforms] tab:

- Subscription

When [Subscription] is selected in the menu, the [Select Template] window is displayed.

Refer to "[5.2 Subscribe to an L-Platform](#)" for information on the L-Platform management method.

- L-Platform

From the menu, select [Deployed] or [Saved Configurations] under [L-Platforms] to display a list of deployed L-Platforms or L-Platforms that are saving configurations.

Manage L-Platform by selecting L-Platform from the Deployed L-Platform list.

Refer to "[5.3 L-Platform Management](#)" for information on the L-Platform management method.

Select an L-Platform template from the list of L-Platform for which specifications have been saved, and submit an application for a subscription for that L-Platform.

For information on submitting an L-Platform subscription, refer to "[5.2.2 L-Platform Subscription after Saving Configuration](#)".

- Server

Select the [Server] in the menu, displays a list of servers. Select a server to display L-Platform details.

For information on the L-Platform management method, refer to "[5.3 L-Platform Management](#)".

- Event logs

Select the [Event Logs] in the menu, logs of the information regarding errors that occurred while using the functions on the [L-Platforms] tab are displayed.

Refer to "[5.4 Display Event Logs](#)" for information on the event log display method.



- If it becomes impossible to connect by the admin server stop and etc. when the [L-Platforms] tab is being operated, the icon in the menu becomes gray and the message "Not Operating" is displayed. In this case, contact the system administrator. According to the displayed window and the performed operation, an error message like the following may be displayed.

Example of message display

- Failed to get system configuration.
- Failed to get the access right.

5.2 Subscribe to an L-Platform

This section explains how to subscribe to an L-Platform



- It may take several minutes for an L-Platform subscription request to be accepted according to the number and the configuration of servers that compose the L-Platform.

After the [Subscribe] button is clicked, operations such as closing the browser, clicking the [Back] button of the browser, or reloading the current window, before the subscription request is accepted, may cause the request to be cancelled. Do not perform any other operations until the request is accepted.

- Refer to Appendix A, Section A.1, "A.1 Emails Sent when Subscribing to an L-Platform" for information on the flow and content of email messages sent to the subscriber, tenant administrator, and infrastructure administrator when subscribing to an L-Platform.

5.2.1 Subscribe to a New L-Platform

On the [Subscription] of the menu, the user can subscribe to an L-Platform on the basis of the specification that has been registered.

Two methods are available to subscribe to a new L-Platform. The method to be used is determined by the method of subscription that the Infrastructure administrator department has specified.

- L-Platform Template reconfiguration not possible
Changes to registered L-Platform Templates are not permitted.
- L-Platform Template reconfiguration possible
Changes to registered L-Platform Templates are permitted.

The procedure for each method is shown below.

L-Platform Template Reconfiguration not Possible

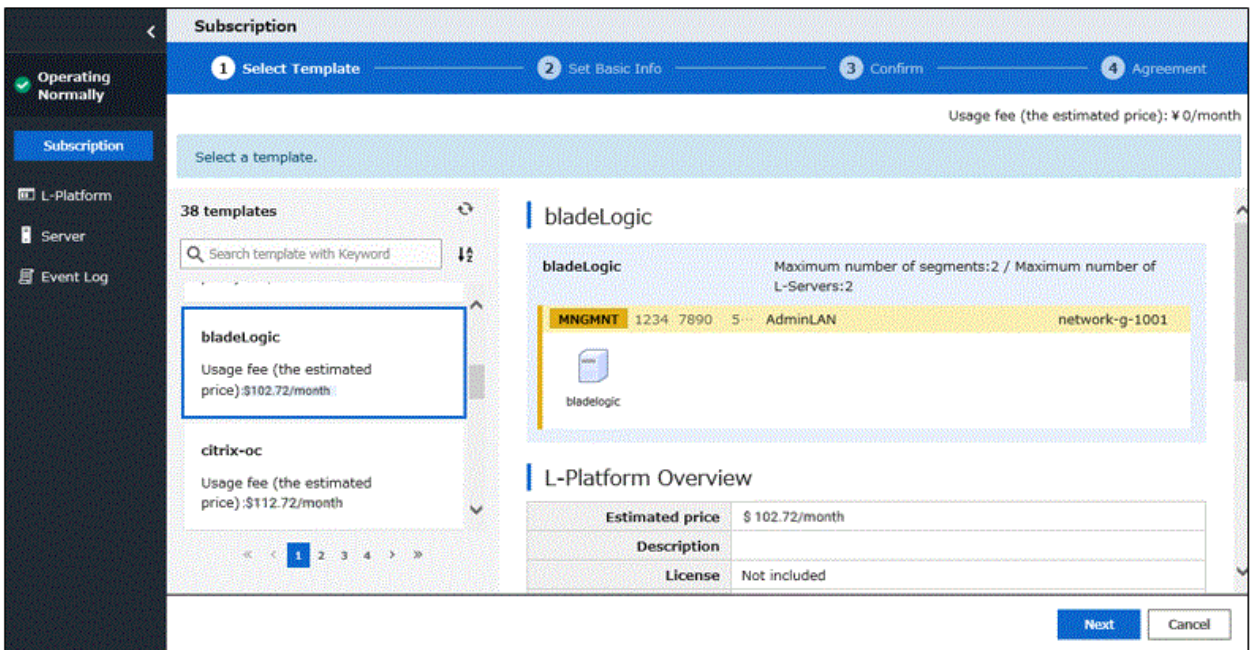
Follow the steps below to subscribe to a new L-Platform:

1. Select the [Subscription] in the menu.
The [Subscription] window will be displayed.
2. Confirm the contents of the L-Platform template on the [Select Template] window, and select L-Platform template to be used.
All the L-Platform templates that are registered in the L-Platform and enabled are displayed on the [Select Template] window.

For each L-Platform template, the corresponding usage fees will also be displayed.

Point


Estimated charges for the L-Platform template will only be displayed when the usage fees display is set to enabled.



The screenshot shows the 'Subscription' window with the following details:

- Progress:** 1 Select Template, 2 Set Basic Info, 3 Confirm, 4 Agreement.
- Usage fee (the estimated price):** ¥ 0/month
- Templates List:**
 - bladeLogic: Usage fee (the estimated price) \$102.72/month
 - citrix-oc: Usage fee (the estimated price) \$112.72/month
- L-Platform Overview for bladeLogic:**
 - Maximum number of segments: 2 / Maximum number of L-Servers: 2
 - Network: MNGMNT 1234 7890 5... AdminLAN network-g-1001
 - License: Not included
- Buttons:** Next, Cancel

L-Platform templates are displayed by the L-Platform template name in ascending order.

To switch the order in which the L-Platform templates are displayed, click the [] icon to the right of the search window. It is possible to switch to ascending order and descending order

To search an L-Platform template using the keyword search function, input any keyword to display only L-Platform templates which has the same string in their names.

Specify a character string in [Keyword] that is the keyword for the L-Platform template the user wants to use. Case is not distinguished for the strings you specify. When a keyword is specified, a search takes place based on the keywords that the Infrastructure administrator set in the specifications. The keyword search function cannot be used if the Infrastructure administrator did not set keywords.

For example, to search a specification where Red Hat Linux 6.1 is installed as the operating system, specify "Linux 6.1".

3. Select the L-Platform template to be used and click the [Next] button.

The [Set Basic Info] window will be displayed.

The [L-Platform Name] is displayed by the L-Platform template name.

To change to an arbitrary name, the new name must be no more than 85 characters long, be unique within the organization and not include the following characters:

```
<, >, &, ', " and control characters
```

However, the strings and the number of characters that can be specified may vary depending on the L-Platform settings. It is recommended that the name be specified using no more than 23 of the following characters.

```
Alphanumeric characters, underscores ("_") and hyphens ("-")
```

4. Enter the basic information and click the [Next] button.

The [Confirm] window will be displayed.



CSV output

When the [Save as CSV] button located at the bottom left of the window is clicked, a browser standard file download dialog is displayed where The L-Platform Template configuration can be saved as a CSV file.

The default CSV file name format is shown below. This file name can be modified as necessary.

```
SystemConfiguration (+ <L-Platform name >+)_ <date> + .csv
```

Save configuration

Clicking the [Save Configuration] button displays a message that the L-Platform configuration has been saved.

Click the [List of L-Platforms saving configuration] to switch to the [Save configuration] list window of [L-Platforms].

The saved L-Platform template can be subscribed to using the following procedure:

1. Select an L-Platform template for which specifications have been saved from the list windows of [Saved Configurations] of [L-Platforms].
2. Click the [use the saved configuration to deploy] button.

5. Check the displayed contents of the L-Platform configuration, and click the [Next] button.

When the [Next] button is clicked, the [Agreement] window will be displayed.

6. Check the license agreement displayed. Select the [Agree the license] check box, then, click the [Subscribe] button.



When the application process is enabled, clicking of the [Subscribe] button on the [Agreement] window displays the [Forward screen] window. Refer to "5.5 Select Forward Destination of Application Process" for details.

The following message will be displayed when the subscription to the L-Platform is accepted:

- When the application process is disabled

"A request to subscribe the L-Platform has been completed. The deployment may take some time to complete."

- When the application process is enabled

"The request to subscribe the L-Platform has been completed. The L-Platform will be deployed after approval and/or judgment procedures."

7. The [L-Platform List] window will be displayed.

Point

- When a subscribed L-Platform is deployed, a subscription completion notification email is sent to the subscriber. This email contains the information necessary to access the L-Platform. If deployment of the subscribed L-Platform fails, a subscription failure notification email is sent to the subscriber and the Infrastructure Administrator. In this case, check with the Infrastructure Administrator, and then subscribe again.
- When a subscribed L-Platform includes server load balancer (SLB), refer to "5.3.8 Server Load Balancer (SLB) Settings" and setup the server load balancer after deploying the L-Platform and before operating the server load balancers.

L-Platform Template Reconfiguration Possible

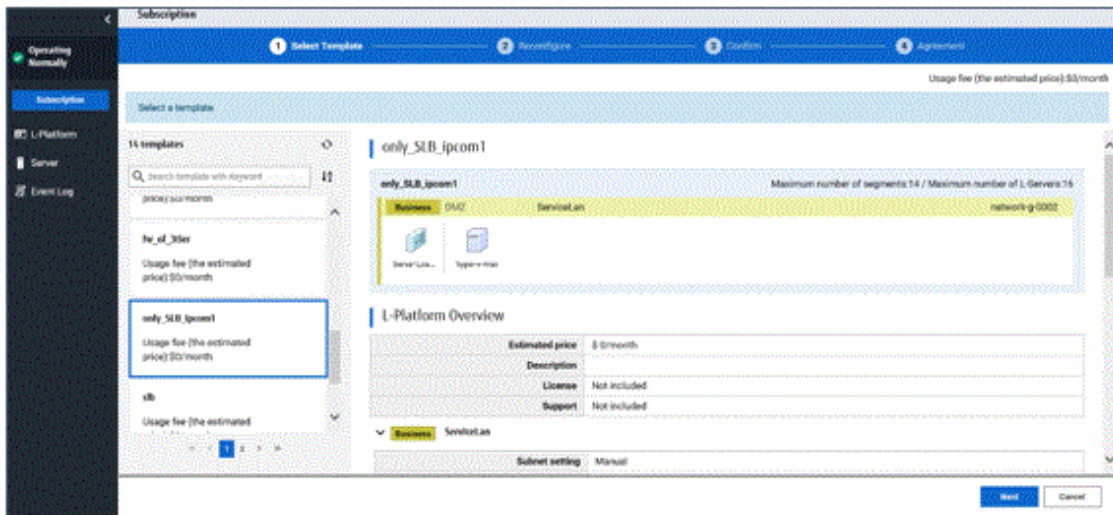
Follow the steps below to subscribe to a new L-Platform:

1. Select [Subscription] in the menu.
The [L-Platform Subscription] window will be displayed.
2. Confirm the contents of the L-Platform templates on the [Select Template] window, and select the L-Platform template to be used.
All the L-Platform templates that are registered in the L-Platform and enabled are displayed on the [Select Template] window.


For each L-Platform template, the corresponding usage fees will also be displayed.

Point

Estimated charges for the L-Platform template will only be displayed when the usage fees display is set to enabled.



L-Platform templates are listed in ascending order by L-Platform template name.

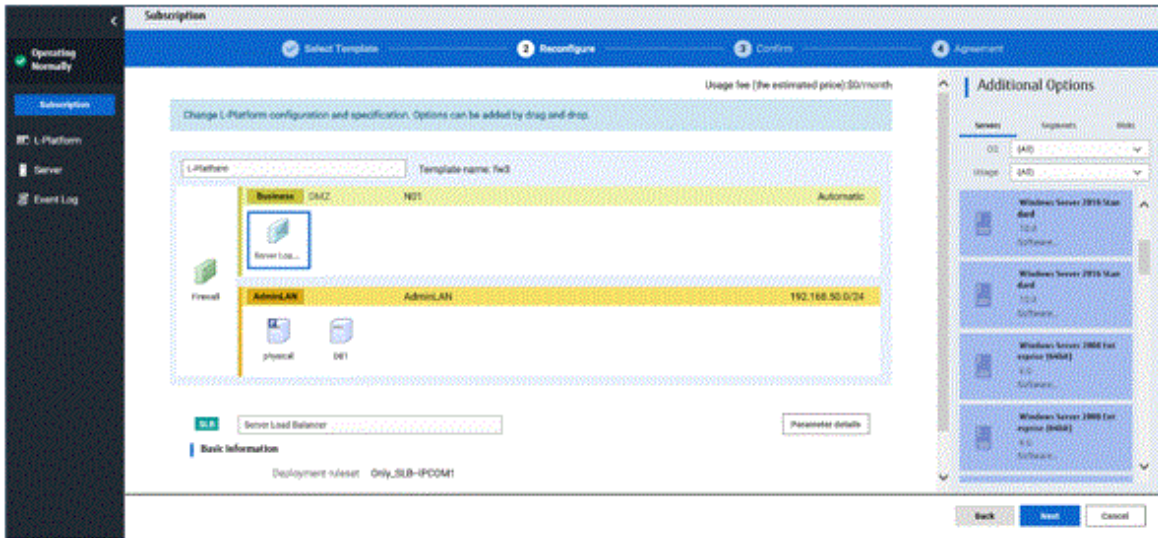
To switch the order in which the L-Platform templates are displayed, click the [] button to the right of the search window. It is possible to switch to ascending order and descending order.

To search an L-Platform template using the keyword search function, input any keyword to display only L-Platform templates which has the same string in their names.

Specify a character string in [Keyword] that is the keyword for the L-Platform template the user wants to use. Case is not distinguished for the strings you specify. When a keyword is specified, a search takes place based on the keywords that the infrastructure administrator set in the specifications. The keyword search function cannot be used if the infrastructure administrator did not set keywords.

For example, to search an L-Platform template where Red Hat Linux 6.1 is installed as the operating system, specify "Linux 6.1".

3. Select the L-Platform template to be used and click the [Next] button.
The [Reconfigure] window will be displayed.



4. This will display the configuration of the L-Platform template selected on the [Reconfigure] window. Change the configuration as required.
For the items that can be changed on the [Reconfigure] window, refer to "5.3.13 Reconfiguration window".
5. When modification of the L-Platform template has completed, click the [Next] button.
The [Confirm] window will be displayed.

Item name	Display format
Item changed	The values of changed items are displayed in red. The value before the change is displayed as "changed from <i>the old value</i> ".
Item added	"* added" is displayed after added elements. The values of added items are displayed in red. The background of added items is also displayed in red.
Item deleted	"* deleted" is displayed after deleted items. The background of deleted items is displayed in grey.

Point

CSV output

When the [Save as CSV] button located at the bottom left of the window is clicked, a browser standard file download dialog is displayed where the L-Platform Template configuration can be saved as a CSV file.

The default CSV file name format is shown below. This file name can be modified as necessary.

```
SystemConfiguration (+ <L-Platform name> +)_ <date> + .csv
```

Save configuration

Clicking the [Save Configuration] button displays a message that the L-Platform configuration has been saved.

Click the [List of L-Platforms saving configuration] to switch to the [Save configuration] list window of [L-Platforms].

The saved L-Platform template can be subscribed to using the following procedure:

1. Select an L-Platform template for which specifications have been saved from the list windows of [Saved Configurations] of [L-Platforms].
 2. Click the [use the saved configuration to deploy] button.
-
6. Check the displayed contents of the L-Platform, and click the [Next] button.
When the [Next] button is clicked, the [Agreement] window will be displayed.
 7. Review and agree with the license agreement displayed. Select the [Agree the license] check box, then click the [Subscribe] button.

 **Point**

.....

When the application process is enabled, clicking of the [Subscribe] button on the [Agreement] window displays the [Forward screen] window. Refer to "[5.5 Select Forward Destination of Application Process](#)" for details.

.....

The following message will be displayed when the subscription to the L-Platform is accepted:

- When the application process is disabled
"A request to subscribe the L-Platform has been completed. The deployment may take some time to complete."
- When the application process is enabled
"The request to subscribe the L-Platform has been completed. The L-Platform will be deployed after approval and/or judgement procedures."

8. The [L-Platform List] window will be displayed.

 **Point**

-
- When a subscribed L-Platform is deployed, a subscription completion notification email is sent to the subscriber. This email contains the information necessary to access the L-Platform. If deployment of the subscribed L-Platform fails, a subscription failure notification email is sent to the subscriber and the Infrastructure Administrator.
 - When a subscribed L-Platform includes server load balancer (SLB), refer to "[5.3.8 Server Load Balancer \(SLB\) Settings](#)" and setup the server load balancer after deploying the L-Platform and before operating the server load balancers.
 - If the server virtualization software is RHEL-KVM or the subscribed L-Platform includes a Windows server, after deployment the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name. Request the tenant administrator to configure the server after deployment.
 - If the server virtualization software is OVM for x86, the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name following deployment. Request the tenant administrator to configure the server after deployment.
 - If the server virtualization software is Citrix XenServer, then depending on the cloning image, the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name after deployment. Request the tenant administrator to configure the server after deployment. Check with the tenant administrator whether the cloning image requires configuration (IP address, etc.) after deployment.
 - When the server virtualization software is OVM for SPARC, IP addresses are set only **to the NICs that are connected to admin LAN** when you deploy a server whose guest OS is Solaris 11. It is therefore recommended that you connect the NIC to the admin LAN. If a deployed server is not connected to admin LAN, the tenant administrator needs to set IP addresses and default gateway to the server before use. You also need to set IP addresses on guest OS to the NICs that are connected to business LAN, by confirming deployed IP addresses on the [L-Platforms] tab.
 - If the server virtualization software is OVM for SPARC, the infrastructure administrator needs to configure deployed servers to enable direct root ssh login after deployment of a tenant user. When server deployment is complete, request the tenant administrator to enable direct root ssh login to the guest OS.
 - If the server virtualization software is Solaris Zone and the administrator user name is "root", the infrastructure administrator needs to configure deployed servers to enable direct root ssh login after deployment of a tenant user. When server deployment is complete,

request the tenant administrator to enable direct root ssh login to the guest OS.

When the administrator user name is something other than "root", the above configuration is not necessary.

- For servers with Solaris Zones for the server virtualization software and Solaris 11 as the guest OS, when multiple NICs have been specified during deployment it is necessary to set the IP addresses and default gateway after the deployment is completed. Submit a request to the tenant administrator.
- If the server virtualization software is RHEL-KVM, contact the infrastructure administrator for information on how to subscribe to servers other than Windows or Linux servers.
- When the resources specified in the template do not exist, a warning mark is displayed on the L-Platform template in the [Select Template] window.
When subscribing to an L-Platform template with a warning mark, do so after selecting existing resources.

5.2.2 L-Platform Subscription after Saving Configuration

An L-Platform subscription can be submitted on the basis of an L-Platform Template for which the configuration is currently being saved.

Perform the following steps to submit an L-Platform subscription from this type of L-Platform Template:

1. Select [Saved Configurations] of [L-Platform] in the menu.

This will display the procedures required to subscribe to an L-Platform.

The time limit for estimating and the estimated price is displayed in each L-Platform.

Select any L-Platform from the [L-Platform List In Saved Configurations] window to display the detailed information for each L-Platform saved. The estimated price and time limit are also available.

When the application process is enabled, the following status will be displayed before the L-Platform template names in the list of L-Platform templates:

- **SAVED:** Specification being saved

The [use the saved configuration to deploy] button is enabled if the selected L-Platform has the above status.

- **UNAPPROVAL:** Not approved

The [use the saved configuration to deploy] button is disabled if the selected L-Platform has the above status.

- **REJECTION:** Subscription rejected

The [use the saved configuration to deploy] button is disabled if the selected L-Platform has the above status.

Note

- In the application process, the L-Platform templates waiting to approve or to assess become the UNAPPROVAL state.
If you want to delete the L-Platform templates which state is UNAPPROVAL, cancel the corresponding application from application list of the ROR console. After canceling, it is deleted automatically.
When you delete an L-Platform template with the status "UNAPPROVAL" on the [L-Platforms] tab, an error occurs because there is no L-Platform template being processed in the application process.
- L-Platform templates which are rejected or dismissed in the application process take the status "REJECTION". Delete it from the [L-Platforms] tab after checking it, if necessary.

Point

- Usage fees and quotation expiry dates for the L-Platform template will only be displayed when the usage fees display is set to enabled.
- The usage fees will display the price at the time the L-Platform template was saved. Please be careful as this display will not change even if the price of the L-Platform is modified.

- Furthermore, the quotation expiry date is based on the validity period of estimated charges for the L-Platform template, and indicates the 30th day after the L-Platform template was saved.

2. Select [use the saved configuration to deploy].
The [Confirm] window will be displayed.

Point

CSV output

When the [Save as CSV] button located at the bottom left of the window is clicked, a browser standard file download dialog is displayed where the L-Platform template can be saved as a CSV file.

The default CSV file name format is shown below. This file name can be modified as necessary.

```
SystemConfiguration (+ <L-Platform name> +)_ <date> + .csv
```

3. Check the displayed contents of the L-Platform configuration, and click the [Next] button.
When the [Next] button is clicked, the [Agreement] window will be displayed.
4. Review and agree with the license agreement displayed. Select the [Agree the license] check box, then click the [Subscribe] button.

Point

- When the application process is enabled, clicking of the [Subscribe] button on the [Agreement] window displays the [Forward screen] window. Refer to "[5.5 Select Forward Destination of Application Process](#)" for details.
- The saved specification will be removed if the [Subscribe] button on the [Agreement] window is clicked. To keep the specification, click the [Cancel] button.

The following message will be displayed when the subscription to the L-Platform is accepted:

- When the application process is disabled
"A request to subscribe the L-Platform has been completed. The deployment may take some time to complete."
- When the application process is enabled
"The request to subscribe the L-Platform has been completed. The L-Platform will be deployed after approval and/or judgement procedures."

5. The display returns to the [L-Platforms List] window.

Point

- When a subscribed L-Platform is deployed, a subscription completion notification email is sent to the subscriber. This email contains the information necessary to access the L-Platform. If deployment of the subscribed L-Platform fails, a subscription failure notification email is sent to the subscriber and the Infrastructure Administrator. In this case, check with the Infrastructure Administrator, and then subscribe again.
- When a subscribed L-Platform includes server load balancer (SLB), refer to "[5.3.8 Server Load Balancer \(SLB\) Settings](#)" and setup the server load balancer after deploying the L-Platform and before operating the server load balancers.
- If the server virtualization software is RHEL-KVM or the subscribed L-Platform includes a Windows server, after deployment the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name. Request the tenant administrator to configure the server after deployment.
- If the server virtualization software is OVM for x86, the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name following deployment. Request the tenant administrator to configure the server after deployment.
- If the server virtualization software is Citrix XenServer, then depending on the cloning image, the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name after deployment. Request the tenant

administrator to configure the server after deployment. Check with the tenant administrator whether the cloning image requires configuration (IP address, etc.) after deployment.

- When the server virtualization software is OVM for SPARC, IP addresses are set only **to the NICs that are connected to admin LAN** when you deploy a server whose guest OS is Solaris 11. It is therefore recommended that you connect the NIC to the admin LAN. If a deployed server is not connected to admin LAN, the tenant administrator needs to set IP addresses and default gateway to the server before use. You also need to set IP addresses on guest OS to the NICs that are connected to business LAN, by confirming deployed IP addresses on the [L-Platforms] tab.
- If the server virtualization software is OVM for SPARC, the infrastructure administrator needs to configure deployed servers to enable direct root ssh login after deployment of a tenant user. When server deployment is complete, request the tenant administrator to enable direct root ssh login to the guest OS.
- If the server virtualization software is Solaris Zone and the administrator user name is "root", the infrastructure administrator needs to configure deployed servers to enable direct root ssh login after deployment of a tenant user. When server deployment is complete, request the tenant administrator to enable direct root ssh login to the guest OS. When the administrator user name is something other than "root", the above configuration is not necessary.
- For servers with Solaris Zones for the server virtualization software and Solaris 11 as the guest OS, when multiple NICs have been specified during deployment it is necessary to set the IP addresses and default gateway after the deployment is completed. Submit a request to the tenant administrator.
- If the server virtualization software is RHEL-KVM, contact the infrastructure administrator for information on how to subscribe to servers other than Windows or Linux servers.

5.3 L-Platform Management

This section explains the management method of L-Platform templates that are in use, when using the [L-Platforms List] window or the [Server List] window.

The L-Platforms targeted by L-Platform management vary in accordance with the user, as follows:

- Infrastructure Administrator
All L-Platforms.
- Tenant Administrator
All L-Platforms being used by owned tenants.
- Tenant users
Only L-Platforms in use by the user.

To display a list of the L-Platforms that are in use, select the [Deployed] of [L-Platform] on the menu.

The following L-Platform operations can also be performed:

- L-Platform detailed information display
- Server start and stop
- L-Platform reconfiguration
- Taking snapshots of and restoring virtual servers
- Physical server backup and restore
- L-Platform cancellation



When using a firewall:



You can choose whether to apply a ruleset, depending on the L-Platform template used for deployment. Check with the tenant administrator for details.

5.3.1 L-Platform Display Formats

This section describes the display format of the [L-Platform List] and [Server List] screens.

The available display formats are shown below:

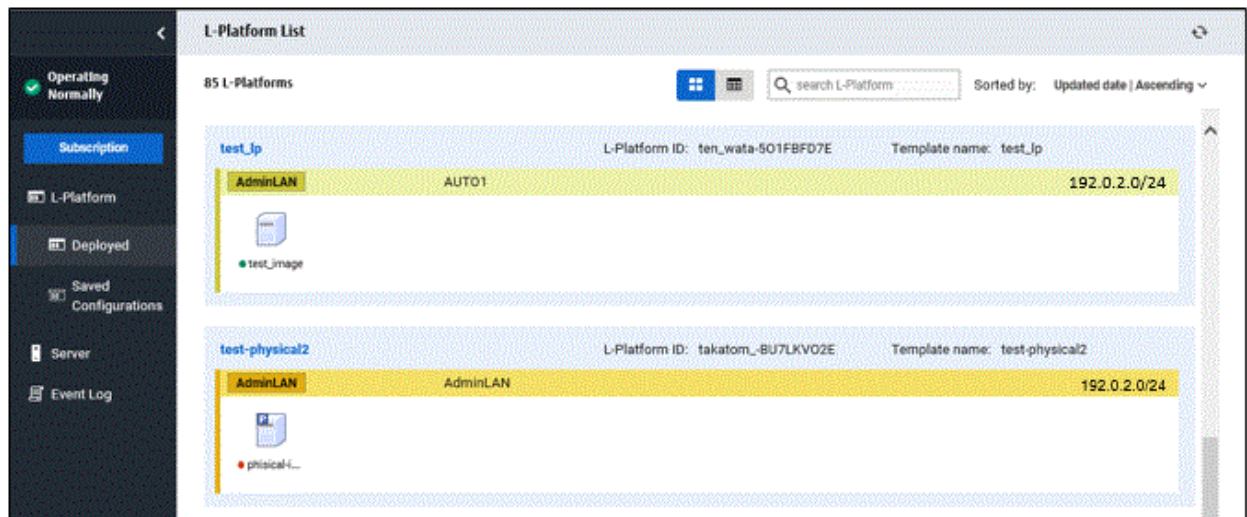
Display format	Description
L-Platform List	Displays the L-Platform configuration images in a list
L-Platform List (list)	Displays the L-Platform list
Server List	A complete list of all deployed servers is displayed. You can refine the result to display only servers at the stopped or the abnormal state.

The display can be switched between the "configuration" format and the "list" format using the button ( ) located on the top right hand side of the window.

Examples of each display format are shown below:

- L-Platform List

Click [Deployed] of [L-Platform] in menu to display the list of L-Platform with their configuration image.



The following information can be checked on the [L-Platform List] window:

- L-Platform name: The L-Platform name set during L-Platform subscription
- L-Platform ID: The ID that identifies the L-Platform
- Template name: The name of the L-Platform Template
- L-Platform configuration: The L-Platform configuration image

L-Platform can be displayed in ascending or descending order based on the following items selected in [Sorted by].


- Update date
- L-Platform name
- L-Platform ID
- Tenant
- Template name

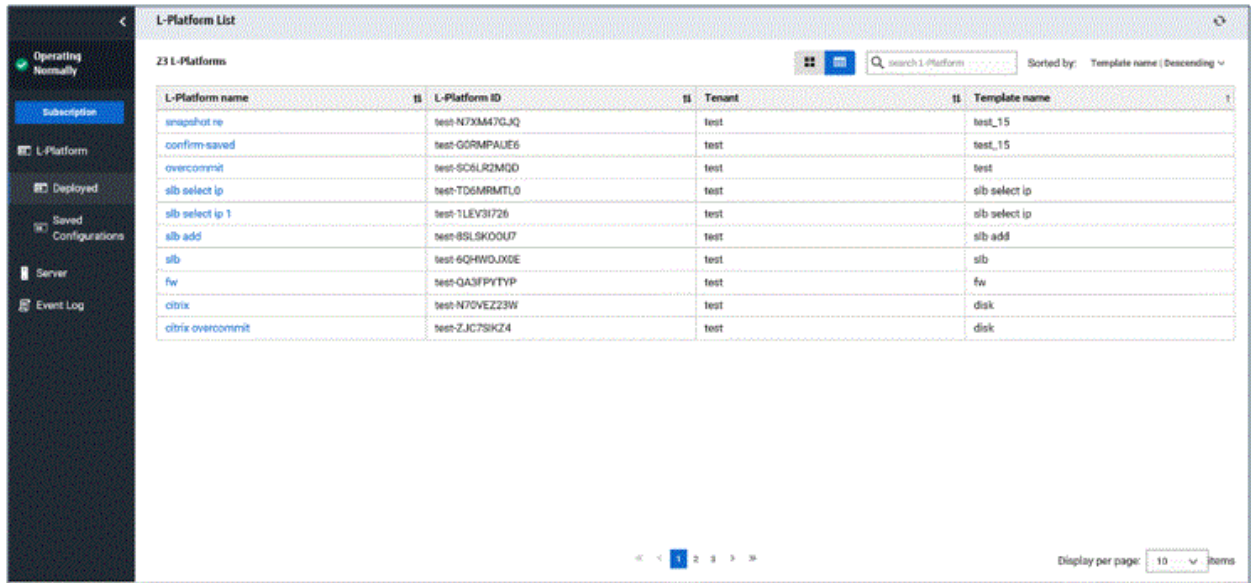
Point

From [L-Platform List] window, click the name of an L-Platform to display the detail information.

Refer to "5.3.2 L-Platform Detailed Information Display" for information on displaying the L-Platform details.

- L-Platform List (list)

Click [Deployed] of [L-Platform] in menu, and then click the button () on the top right hand side of the window to display a list of information on the L-Platforms.



L-Platform name	L-Platform ID	Tenant	Template name
snapshot re	test-N7XM47GJQ	test	test_15
confirm-saved	test-GGRMPAU66	test	test_15
overcommit	test-SC6LR2M0D	test	test
slb select ip	test-TDSMRMTL0	test	slb select ip
slb select ip 1	test-1LEV3I726	test	slb select ip
slb add	test-8SL9K00U7	test	slb add
slb	test-6QHWOJXDE	test	slb
fw	test-QA3FPYTYP	test	fw
citrix	test-N70VEZ23W	test	disk
citrix overcommit	test-ZJC7SK24	test	disk

The following information can be checked on the [L-Platform List (list)] window.

- L-Platform name: The L-Platform name set during L-Platform subscription
- L-Platform ID: An ID to identify the L-Platform
- Tenant: Identification name for the organization
- Template name: Name of the L-Platform template

The sequence of the L-Platforms displayed can be switched between ascending order and descending order by clicking the column headers (L-Platform name, L-Platform ID, etc) or Sorted by.

Point

Clicking the L-Platform name, details on the L-Platform can be displayed on the [L-Platform List (list)] window. Refer to "5.3.2 L-Platform Detailed Information Display" for information on displaying the L-Platform details.

- Server List

Selecting [Server] in the menu displays a list of information on servers included in an L-Platform.

The following shows an example of all servers being displayed. Select [Stop] in the upper right pull-down menu to display servers which have been stopped.

Status	Type	Server name	Host name	L-Platform name	IP address	Task	Snapshot counts	Action
Stopped	OS	DS1	V1LEV37260001		192.168.24.6		2 times	Action
Stopped	OS	DS2	V1LEV37260002	sib select ip 1	192.168.24.7		0 times	Action
Running	WEB/AP/DB	WEBAPDB3	V1LEV37260003	sib select ip 1	192.168.24.8		0 times	Action
Stopped	WEB/AP/DB	WEBAPDB4	V1LEV37260004	sib select ip 1	192.168.24.9		0 times	Action
Stopped	WEB/AP/DB	WEBAPDB5	V1LEV37260005	sib select ip 1	192.168.24.10		0 times	Action
Stopped	WEB	WEB3	V1LEV37260006	sib select ip 1	192.168.24.11		0 times	Action
Running	OS	DS7	V1LEV37260007	sib select ip 1	192.168.24.12		0 times	Action
Running	WEB/AP/DB	WEBAPDB8	V1LEV37260008	sib select ip 1	192.168.24.13		0 times	Action
Stopped	WEB/AP/DB	WEBAPDB9	V1LEV37260009	sib select ip 1	192.168.24.14		0 times	Action
Stopped	WEB/AP/DB	WEBAPDB10	V1LEV37260010	sib select ip 1	192.168.24.15		0 times	Action

The following information can be checked on the [Server List] window.

- Status: Server status (Running, Stopped, Starting, Stopping, Deploying)
- Type: Server type
- Server name: Server name
- Host name: The server host name. However, this is not displayed for a physical server
- L-Platform name: The L-Platform name set during L-Platform subscription
- IP address: IP address of the server
- Task: the current operating status for the specific server(Cloning, Snapshot, etc.)
- Number of snapshots: Number of snapshots or number of executed backups
- Action: a pull-down menu with available operations for the specific server.

The sequence of the servers displayed can be switched between ascending order and descending order by clicking the column headers.

Point

The following operations can be performed on the [Server List] window.

- Server name link button: Display details on an L-Platform or a disk.
Refer to "[5.3.2 L-Platform Detailed Information Display](#)" for information on displaying L-Platform details.
- [ON] in the action pull-down: Start the server
Refer to "[5.3.3 Start and Stop the Server](#)" for information on starting the server.
- [OFF] in the action pull-down: Stop the server
Refer to "[5.3.3 Start and Stop the Server](#)" for information on stopping the server.
- [Take snapshot] in the action pull-down: Take snapshots
This button is displayed for virtual servers.
But this button is not displayed when the target server satisfies either of the following conditions:
 - Servers whose virtualization software is Solaris Zone, OVM for x86, or OVM for SPARC.

- Servers whose virtualization software is RHEL-KVM that satisfy either of the following conditions:
 - The image location type of the cloning image is "Raw Disk"
 - The image location type of the cloning image is "Virtual Disk", and one or more existing disks are connected

Refer to "[5.3.5 Take and Restore Snapshot](#)" for information on taking snapshots.

- [Backup] in the action pull-down: Backup and restore.
This button is displayed for physical servers.
But this button is not displayed if the OS is Solaris.
Refer to "[5.3.6 Physical Server Backup and Restore](#)" for information on backup and restore.
- [Console] in the action pull-down: Connects to the server console
This button is displayed when operating VMware servers.
Pressing the button displays the window for launching the console screen, and then the console screen itself.
Once the console screen is displayed, closing the window for launching the console screen will not cause any problems.
The [Console] button is only displayed when it has been enabled in the system settings.
- You can specify the servers to be displayed by clicking the upper right pull-down menu for the following items:
 - (ALL): All servers are displayed.
 - STOP: Servers which have been stopped are displayed.
 - ERROR: The server whose task is failover displays.



Note

The [Running] icon for a server indicates that the power has been turned on.


Even if the [Running] icon is displayed, login to the L-Platform may fail if logged in immediately after deployment or starting the virtual server. In this case, allow a few minutes before trying to log in again.

5.3.2 L-Platform Detailed Information Display


Follow the steps below to display the details of L-Platform:

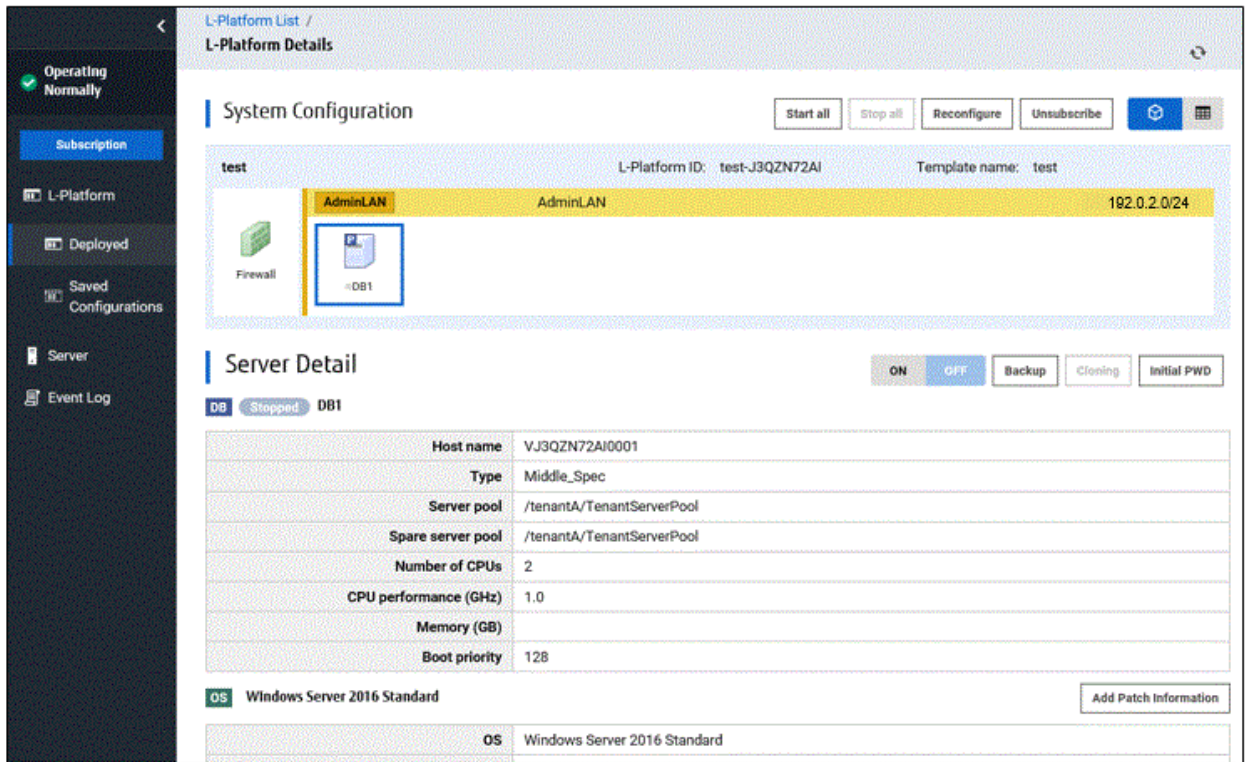
1. Display the [L-Platform List], or the [Server List] window.
Refer to "[5.3.1 L-Platform Display Formats](#)" for information on how to display the window.
2. Click the link of the target L-Platform or server.
The [L-Platform Details] window will be displayed.

There are two types of display format for the [L-Platform Details] window below. The display format can be switched using the button

( ) located on the top right hand side of the window.

- L-Platform configuration image

By clicking the button () located on the top right hand side of the window, the L-Platform configuration is displayed as an image.




The screenshot shows the 'L-Platform Details' window. The left sidebar indicates the system is 'Operating Normally'. The main content area is divided into two sections:

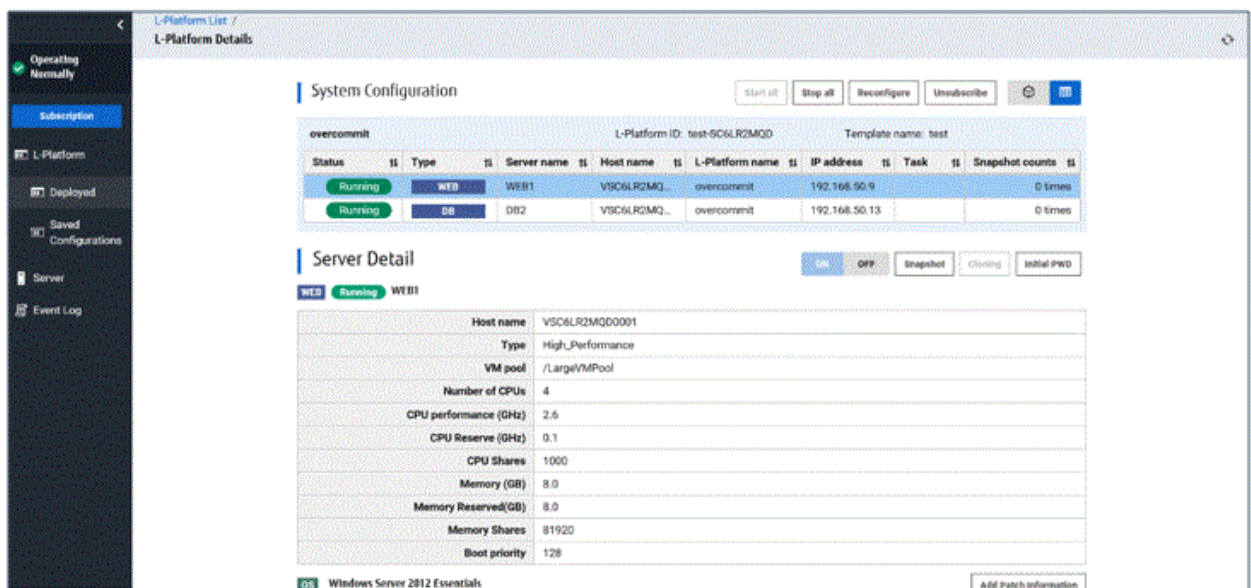
- System Configuration:** Shows a table with one entry:

Network	Name	IP Address
AdminLAN	AdminLAN	192.0.2.0/24
- Server Detail:** Shows details for a server named 'DB1' (Status: Stopped).

Host name	VJ3QZN72AI0001
Type	Middle_Spec
Server pool	/tenantA/TenantServerPool
Spare server pool	/tenantA/TenantServerPool
Number of CPUs	2
CPU performance (GHz)	1.0
Memory (GB)	
Boot priority	128
OS	Windows Server 2016 Standard

- Server List

By clicking the button () located on the top right hand side of the window, a list of all virtual servers included in the L-Platform is displayed. The server List also displays the extended disks included in the virtual servers.



The screenshot shows the 'L-Platform Details' window with the 'Server List' view selected. It displays a table of servers and a detailed view for one of them:

- Server List Table:**

Status	Type	Server name	Host name	L-Platform name	IP address	Task	Snapshot counts
Running	WEB	WEB1	VSC6LR2MQ...	overcommit	192.168.50.9		0 times
Running	DB	DB2	VSC6LR2MQ...	overcommit	192.168.50.13		0 times
- Server Detail:** Shows details for a server named 'WEB1' (Status: Running).

Host name	VSC6LR2MQ00001
Type	High_Performance
VM pool	/LargeVMPool
Number of CPUs	4
CPU performance (GHz)	2.6
CPU Reserve (GHz)	0.1
CPU Shares	1000
Memory (GB)	8.0
Memory Reserved(GB)	0.0
Memory Shares	81920
Boot priority	128
OS	Windows Server 2012 Essentials

Point

The following buttons can be used on the [L-Platform Details] window:

- [Start all] button: Turns the power on for all servers in the L-Platform as a group.
- [Stop all] button: Turns the power off for all servers in the L-Platform as a group.
- [Reconfigure] button: Changes the L-Platform
Refer to ["5.3.11 L-Platform Reconfiguration"](#) for information on changing L-Platforms.
- [Unsubscribe] button: Cancels the L-Platform
Refer to ["5.3.12 Cancel an L-Platform"](#) for information on cancelling L-Platforms.
Canceling is not possible if the following servers exist on the target L-Platform:
 - Servers whose server virtualization software is OVM for SPARC and to which a shared disk is connected.
 - Servers that use Solaris Zones for virtualization software and are operating Solaris 10 that is not managed by BladeLogic
- [ON] button: Start the server
Refer to ["5.3.3 Start and Stop the Server"](#) for information on starting the server.
- [OFF] button: Stop the server
Refer to ["5.3.3 Start and Stop the Server"](#) for information on stopping the virtual server.
- [Snapshot] button: Take and restore snapshots
This button is displayed for virtual servers.
But this button is not displayed when the target server satisfies either of the following conditions:
 - Servers whose virtualization software is Solaris Zone, OVM for x86, or OVM for SPARC.
 - Servers whose virtualization software is RHEL-KVM that satisfy either of the following conditions:
 - The image location type of the cloning image is "Raw Disk"
 - The image location type of the cloning image is "Virtual Disk", and one or more existing disks are connected
 Refer to ["5.3.5 Take and Restore Snapshot"](#) for information on taking and restoring snapshots.
- [Backup] button: Backup and restore
This button is displayed for physical servers.
But this button is not displayed if the OS is Solaris.
Refer to ["5.3.6 Physical Server Backup and Restore"](#) for information on backup and restore.
- [Operation] button: Operate server load balancer (SLB)
This is displayed for server load balancers.
Refer to ["5.3.9 Server Load Balancer \(SLB\) Operations"](#) for information on operating server load balancers.
- [Operation log] button: Server load balancer (SLB) operation log
This is displayed for server load balancers.
Refer to ["5.3.10 Server Load Balancer \(SLB\) Operation Logs"](#) for information on server load balancer operation logs.
- [SLB settings] button: Server load balancer (SLB) settings
This is displayed for server load balancers.
Refer to ["5.3.8 Server Load Balancer \(SLB\) Settings"](#) for information on server load balancer settings.
- [Software Details] button: Display software information
- [Initial PWD] button: Confirm the initial password
Depending on the L-Platform settings, the "Initial password is "*Initial password*". Sometimes it is displayed as ".
The initial password is set after L-Platform deployment.
When all the following conditions are satisfied, "The Root role password is "Root role password"." is displayed.
 - The server virtualization software is Solaris Zones
 - The OS of the virtual server is Solaris 11
 - The administrator user name is a value other than that of the root account
 Depending on the system settings, the [Initial PWD] button may not be displayed.
- [Add Patch Information] button: Register the patch information
Refer to ["5.3.4 Manage Patch Information"](#) for information on registering patch information.

- [Delete Patch Information] button: Delete the patch information
Refer to "5.3.4 Manage Patch Information" for information on deleting the patch information.
- [Console] button: Connects to the server console
This button is displayed when operating VMware servers.
Clicking the button displays the window for launching the console screen, and then the console screen itself.
Once the console screen is displayed, closing the window for launching the console screen will not cause any problems.
The [Console] button is only displayed when it has been enabled in the system settings.

Note

- If 'Start all' or 'Stop all' button is clicked while another user is reconfiguring the L-Platform, the start or stop operation fails with the error code VSYS10051.
If this error occurs when no user is reconfiguring the L-Platform, perform the following operation before starting or stopping all servers.
 1. Click the [Reconfigure] button on the [L-Platform Details] window.
 2. After the following message is displayed, click the 'Obtain the lock on a mandatory basis' button, and then cancel the reconfiguration.

The L-Platform is locked by another user.
After obtaining the lock on a mandatory basis, the operation can be continued.

- If a virtual server managed by OVM for SPARC is stopped using the [Stop all] or [OFF] button, the OVM for SPARC must support shutdown operations. If shutdown operations are not supported by the OVM for SPARC, the virtual server cannot be stopped.
In this case, operate the virtual server directly or click the [Forced stop] button depending on the server status.
- If a server is imported to the L-Platform and no pool name is specified by the administrator, the "-" character is displayed for the VM pool, the server pool name, and the storage pool of the server.
- For physical servers, the number of CPUs, operating frequency, and memory size displayed are those specified by the user during the L-Platform subscription or when adding a server as part of an L-Platform reconfiguration.
For physical servers added to the L-Platform, the values in effect during registration are displayed.
For this reason, even if the number of CPUs, operating frequency, and memory size are changed, the displayed values will not change.

Information

[Solaris Zones (Solaris 11)]
The server disk is the area mounted on the mount point /rcx/diskXXX of the non-global zone.
XXX is the index number of the disk without zero suppression.

5.3.3 Start and Stop the Server

Follow the steps below to start or stop a server:

1. Display the [Server List] window.
Refer to "5.3.1 L-Platform Display Formats" for information on how to display the window.
Alternatively, display the [L-Platform Details] window.
Refer to "5.3.2 L-Platform Detailed Information Display" for information on how to display the window.
2. To start the target server, select [ON] in the target server's action. Alternatively, click the [ON] button for the target server.
To stop the target server, select [OFF] in the target server's action. Alternatively, click the [OFF] button for the target server.

Note

- Even if the server is stopped using the [OFF] button, sometimes the server may not stop, due to a problem with the server. In this case, the [ON] button and [OFF] button act as [Forced stop] buttons. When a [Forced stop] button is clicked, the server will stop forcibly.

The [Forced stop] button is designed to shut down the power to the server.

Therefore, the recommendations for virtual servers is to use remote desktop connection to connect to the virtual server, and then to shut down the operating system.

- If a virtual server managed by OVM for SPARC is to be stopped and shutdown operations are not supported by the OVM for SPARC, it cannot be stopped.

In this case, operate the virtual server directly or click the [Forced stop] button depending on the server status.

- To stop a server for VDI coordination, log in to the guest OS, and perform a shutdown.

5.3.4 Manage Patch Information

Patch information can be managed after it is applied to or deleted from a server that has been deployed.

Register Patch Information

Follow the steps below to register patch information:

1. Display the [L-Platform Details] window.
Refer to "5.3.2 L-Platform Detailed Information Display" for information on how to display the window.

2. Selecting a target server displays the status of its software.
The following window will be displayed if the patch information has not been registered.

OS	License	Support
Windows Server 2012 Foundation	test	11

3. Click the [Add Patch Information] button.
The [Add Patch Information] window will be displayed.


Item name	Description
Patch ID	Specify the patch ID that has been applied. The patch ID must be no more than 32 bytes of alpha-numeric one-byte characters.

Item name	Description
Component name	Specify the name of the component where the patch is to be applied. The name must be no more than 85 characters long and not include the following characters: <p style="text-align: center;"><, >, &, ', " and control characters</p>
Description	Specify the description related to the patch information that has been applied. The description must be no more than 85 characters long and not include the following characters: <p style="text-align: center;"><, >, &, ', " and control characters</p>

4. Enter the required fields and click the [Register] button.

Delete Patch Information

Follow the steps below to delete patch information that has been registered:

1. Check the target software of the target server on the [L-Platform Details] window.
2. Click the  button of the patch information to be deleted.

A message confirming the deletion will be displayed. Click the [OK] button.

5.3.5 Take and Restore Snapshot

Using the [Snapshot] window, snapshots can be taken and restored for the virtual server.

These are supported if the server virtualization software is VMware, Hyper-V, or Citrix XenServer.

If the server virtualization software is Citrix XenServer, the corresponding virtual server must be stopped when taking a snapshot.

To take the restore them, the target virtual server must be inactive.

Snapshot is managed by the generation. Snapshots of older generations will be deleted if snapshots that are older than three generations are to be taken.

Contact the system administrator if it is necessary to take snapshots over 4 or more generations.



Note

- The backup products that support the virtual server backup operations located on the server virtualization software must be used to back up the virtual server to a disk or tape device that is not the disk device the virtual server is running on.
- NICs cannot be added to or deleted from a server that has snapshots. When adding or deleting NICs, delete all snapshots of the server beforehand.
- Even if a created snapshot is not deleted, contact the System Administrator if it is not displayed in the [Snapshot] window.

Take Snapshots

Follow the steps below to take snapshots:

1. Display the [Server List] window.
Refer to "[5.3.1 L-Platform Display Formats](#)" for information on how to display the window.
Alternatively, display the [L-Platform Details] window.
Refer to "[5.3.2 L-Platform Detailed Information Display](#)" for information on how to display the window.
2. Select [Snapshot] in the actions of the target server on the [Server List] window. Alternatively, click the [Snapshot] button of the target server on the displayed [L-Platform Details] window.
3. Click the [Take Snapshot] button on the displayed [Snapshot] window.
4. A pop-up window will be displayed. Enter a comment of less than 128 characters (excluding "<", ">", "&", "'", "%", "\" and control characters).
When the target server is RHEL-KVM, enter the comment using single-byte alphanumeric characters and symbols (excluding "<",

">", "&", "'", "\"", "%", "\").

This will display the comment entered on the snapshot list.

5. Click the [Take Snapshot] button to start taking the snapshot.

Restore Snapshots

Follow the steps below to restore the taken snapshots:

1. Click the [↶] button on the target snapshot to restore the taken snapshots.
2. A message box confirming that the restoration will be displayed.
Clicking the [OK] button will start the restoring the snapshot.

Point

- To delete the snapshots taken, click the [🗑️] button of the target data from the snapshot list.
- The disk size and estimated charges when taking a snapshot will only be displayed when the estimated fees display is enabled.

5.3.6 Physical Server Backup and Restore

The [Backup] window can be used to back up and restore a physical server.

The target physical server must be running before performing backup and restore.

Backup is managed by the generation. Backups of older generations will be deleted if snapshots that are older than three generations are to be taken.

Contact the system administrator if it is necessary to take backups over 4 or more generations.

Note

If a server is reconfigured after backup, when the server is restored it may revert to the configuration prior to the reconfiguration. It is recommended to make a new backup after reconfiguration.

Backup

Follow the steps below to backup:

1. Display the [Server List] window.
Refer to "5.3.1 L-Platform Display Formats" for information on how to display the window.
Alternatively, display the [L-Platform Details] window.
Refer to "5.3.2 L-Platform Detailed Information Display" for information on how to display the window.
2. Select [Backup] in the actions of the target server on the [Server List] window. Alternatively, click the [Backup] button of the target server on the [L-Platform Details] window.
3. Click the [Backup] button on the displayed [Backup] window.
4. A pop-up window will be displayed. Enter a comment of less than 128 characters (<, >, &, ', ", %, and control characters are not allowed.).
This will display the comment entered on the backup list.
5. Click the [Take Backup] button to start backup.

Point

To delete the collected backup, select the target data from the backup list and click the [🗑️] button.

Restore

Perform the following operations to restore a backed up server:

1. Display the [Backup] window.

Refer to "[5.3.2 L-Platform Detailed Information Display](#)" for information on how to display the window.

2. Click the [] button for the target backup from the Backup list in the [Backup] window to start the restore.

5.3.7 Setup Firewall

The firewall ruleset parameter values can be changed in the firewall settings.

Perform the following steps to change the firewall settings:

1. Display the [L-Platform Details] window

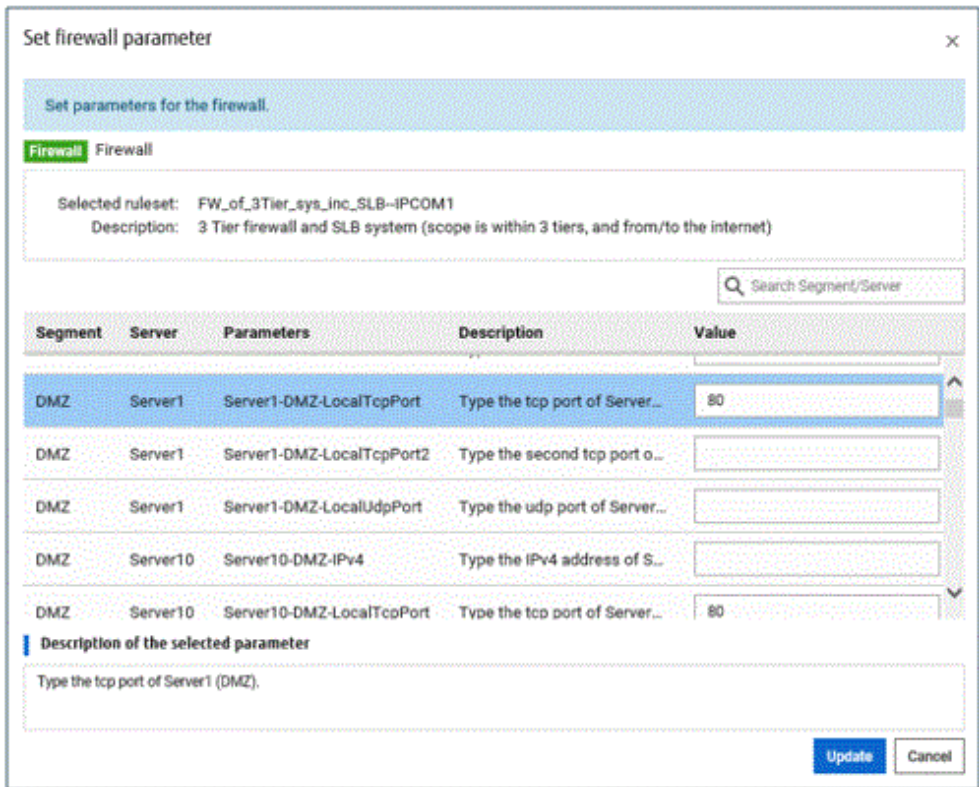
Refer to "[5.3.2 L-Platform Detailed Information Display](#)" for information on the display method.

2. Select the firewall, and then click the [Setting] button.

3. [Set firewall parameter] window is displayed.

- Selected ruleset: Displays the ruleset names.
- Description: Displays the ruleset descriptions.
- Segment: The names of the segments where the parameters are enabled are displayed. "-" is displayed for parameters are unrelated to the segment.
- Server: The names of the servers where the parameters are enabled are displayed. "-" is displayed for parameters are unrelated to the server.
- Parameter: Displays the parameter names.
- Description: Displays an explanation of the parameter
- Value: Enter the value to be set for the parameter

- Description of the selected parameter: Displays the description of the parameter that is moused over.



4. When the [Update] button is clicked, a confirmation message is displayed. Click the [OK] button to save and apply the firewall settings.

Point

Firewall settings cannot be set by L-Platform subscription or L-Platform reconfiguration.

After an L-Platform is deployed, check the IP addresses of the servers included in the L-Platform and the port numbers used by the installed middleware. Then, set the allowed IP addresses and port numbers in the relevant ruleset parameters in the firewall settings.

5.3.8 Server Load Balancer (SLB) Settings

When an L-Platform that uses a server load balancer (SLB) that uses a ruleset has been deployed, the parameter values of the ruleset of the server load balancer can be changed.

Server load balancer settings are changed as follows:

1. Display the [L-Platform Details] window.
Refer to "5.3.2 L-Platform Detailed Information Display" for information on the display method.
2. Select Server Load Balancer to display detailed information.
 - Selected ruleset: Displays the ruleset names.
 - Description: Displays the ruleset descriptions.

3. Click the [SLB settings] button to display the [SLB Parameters Setting] window.

Set parameters for the firewall.

Firewall Firewall

Selected ruleset: FW_of_3Tier_sys_inc_SLB-IPCOM1
Description: 3 Tier firewall and SLB system (scope is within 3 tiers, and from/to the internet)

Search Segment/Server

Segment	Server	Parameters	Description	Value
DMZ	Server1	Server1-DMZ-LocalTcpPort	Type the tcp port of Server...	80
DMZ	Server1	Server1-DMZ-LocalTcpPort2	Type the second tcp port o...	
DMZ	Server1	Server1-DMZ-LocalUdpPort	Type the udp port of Server...	
DMZ	Server10	Server10-DMZ-IPv4	Type the IPv4 address of S...	
DMZ	Server10	Server10-DMZ-LocalTcpPort	Type the tcp port of Server...	80

Description of the selected parameter

Type the tcp port of Server1 (DMZ).

Update Cancel

4. Click the [Select] button for each parameter to display the [Parameter Setting] window.

Set the parameter.

Not included
 Included(selection from the following list)

Segment: AUTO1

Segment	Server	NIC NO.	IP address
AUTO1	WEB1333	1	192.0.2.2

OK Cancel

[Parameter Setting] window

This section explains the [Parameter Setting] window.

When a parameter with a configured IP address is selected, or when Included is selected

[Included] is specified in the initial state, as shown below, and the list displays the servers (NICs) that will not be load-balanced.

Select a row and click [OK] to select a server for distribution.

Select a segment to display only the server connected to it - if [All] is selected, all servers on the L-Platform will be displayed.

Select [Not included] to disable the segment and the list, as shown in "[When a parameter with no configured IP address is selected, or when \[Not included\] is selected](#)" (display only).

When changing from [Not included] to [Included], the default value of the segment selection is the segment connected to the SLB.

When a parameter with no configured IP address is selected, or when [Not included] is selected

[Not included] is specified in the initial state, as shown below, and the list displays the servers (NICs) that will not be load-balanced. Note that this window only displays the default value - it does not enable a selection to be made.

The default value of the segment selection is the segment connected to the SLB. Note that this window only displays the default value - it does not enable a selection to be made.

Refer to "[When a parameter with a configured IP address is selected, or when Included is selected](#)" to change the selection from [Not included] to [Included] .

- [Server] tab: Parameters that are related to the server are displayed. The following items are displayed:
 - Server name: The names of the servers where the parameters are enabled are displayed. "-" is displayed for parameters unrelated to the server.
 - Parameter: Displays the parameter labels.
 - Description: Displays the parameter descriptions.
 - Setting value: Enter the value to be set for the parameter.
 - Parameter descriptions: Displays the description of the parameter that is moused over.

5. When [Update] button is clicked, a confirmation message is displayed.

Click [OK] button to start the server load balancer settings.

Point

- Server load balancer settings cannot be changed in L-Platform subscriptions or when modifying the L-Platform configuration.
- Specify the server load balancer settings after deploying the L-Platform and before operating the server load balancer.
- Specify the IP address advised by the tenant administrator for the virtual IP address used when setting the server load balancer. Also check with the tenant administrator if you do not know any of the other values to be specified.

Note

The parameters and operations available depend on the device and rulesets.

5.3.9 Server Load Balancer (SLB) Operations

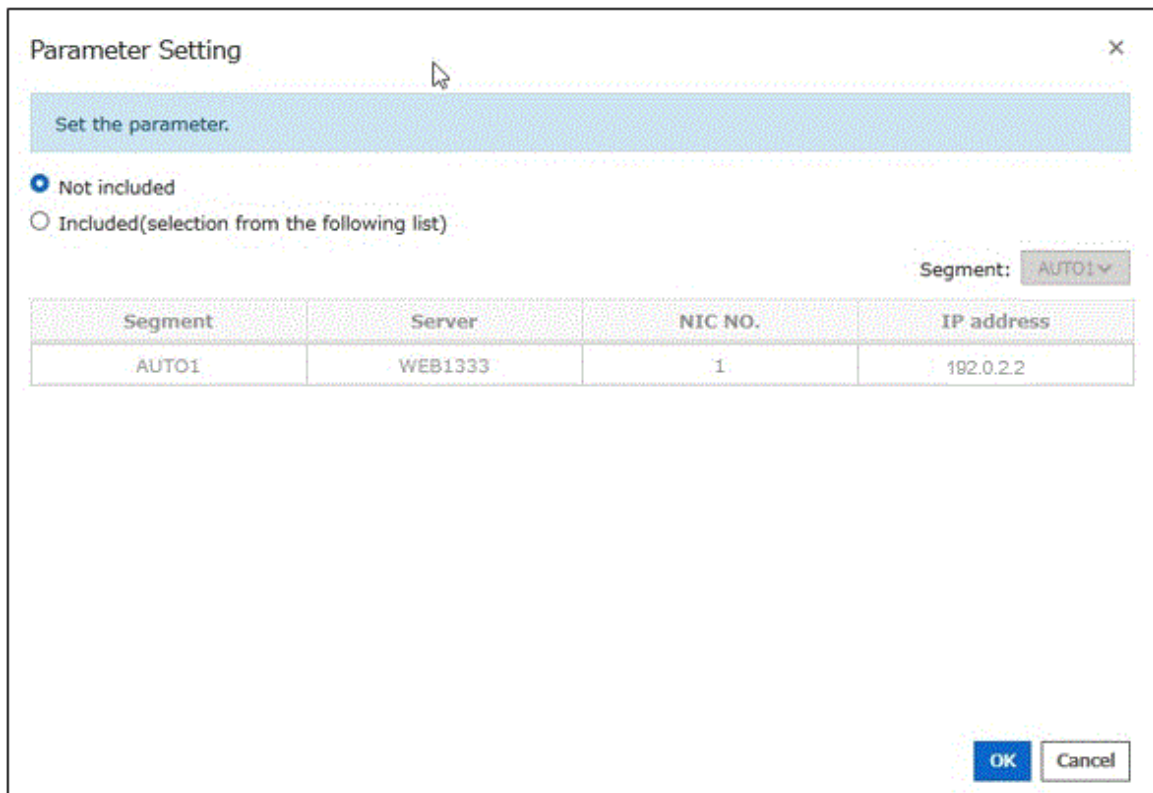
This section describes server load balancer operations.

Operations on server load balancers, such as including a server in an L-Platform as a target of load balancing, or removing it as a target, are performed by specifying rulesets and parameters prepared for operations.

Operate the server load balancer as follows:

1. Display the [L-Platform Details] window.
Refer to "5.3.2 L-Platform Detailed Information Display" for information on the display method.
2. After selecting a server load balancer (SLB), click [Operation]
[Select a ruleset] window in [Operation] window is displayed.
3. Select the ruleset used in the operation in the [Select a ruleset] window.
The rulesets for operating the target server load balancer are displayed in the [Select a ruleset] window. In the ruleset description section in the lower part of the window, the description of the parameter in the row being pointed at is displayed.
4. Select the ruleset to be used and click the [Next] button.
The [Set Parameter(s)] window is displayed.
Specify the parameters for operation corresponding to the ruleset in the [Set Parameter(s)] window. No information for parameters is displayed if there are no parameters.
 - Selected ruleset: The name of the ruleset selected in the [Select a ruleset] window is displayed.
 - Description: Displays a description of the selected ruleset.
 - Parameters
 - Parameter: The labels of the parameters for operation are displayed.
 - Description: Displays the parameter descriptions.
 - Value: Enter the value to be set for the parameter.
 - Description of the selected parameter: Displays the description of the parameter that is moused over.

If the parameter row type is the IP address, [Select] will be displayed when the target parameter is selected.
Click [Select] to display the [Parameter Setting] window.



Refer to "[Parameter Setting] window" for information on information on this window.

5. Once the parameter settings are complete, click the [Next] button.
The [Confirm] window will be displayed.
The values of the changed items are displayed in red. The value before the change is displayed as "changed from *the old value*".

In the parameter description section in the lower part of the window, the description of the parameter in the row being pointed at is displayed.

6. Confirm the values of the parameters displayed and click [Execute] button.

The [Complete] window is displayed.

7. To confirm the results of the operation, click [Open Operation log] button, or if you want to check the log later, click [Close] button.

Point

Also check with the tenant administrator if you do not understand the rulesets used when operating server load balancers, or do not know the values to be specified in the ruleset parameters.

Note

- Refer to "[5.3.8 Server Load Balancer \(SLB\) Settings](#)" and setup the server load balance after the L-Platform is deployed. Operation will fail if you try to operate the L-Platform without setting the server load balancer.
- [Operation] cannot be performed on a server load balancer when a server load balancer operation is executing.
- Confirm the results of server load balancer operations in the [5.3.10 Server Load Balancer \(SLB\) Operation Logs](#). If you do not check the operation logs after executing server load balancer operations, the results of previous operations will no longer be available when you next execute an operation.
- The parameters and operations available depend on the device and rulesets.

5.3.10 Server Load Balancer (SLB) Operation Logs

This section describes server load balancer operation logs.

The results of server load balancer operations can be checked by displaying the server load balancer operation logs.

Display the operation logs for the server load balancer as follows:

1. Display the [L-Platform Details] window.

Refer to "[5.3.2 L-Platform Detailed Information Display](#)" for information on the display method.

2. After selecting a server load balancer (SLB), click [Operation log] button.

The [Operation log] window is displayed.

This will be empty if there are no operation logs.

The message "Obtaining the operation log" is displayed when an operation is not yet complete.

To perform a new operation after displaying the operation log, click the [↶] button to display the latest operation log.

3. When you have finished checking the results of the operation, click [Close] button to close the [Operation log] window.

Point

Check with the tenant administrator if you do not understand the content of the operation logs.

5.3.11 L-Platform Reconfiguration

The system configuration that configures the L-Platform in use can be modified on the [Reconfigure] window.

Note

- [Reconfigure] window allows the configuration of the L-Platform to be modified. However, this may only be used when modifications to the configuration of the L-Platform template have been allowed by the infrastructure administrator.
- When reconfiguring an already deployed server, the items that can be reconfigured differ depending on the type and power status of the target server.

[Virtual server]

- The server is not running

Items other than the following can be changed:

- Storage pool
- VM pool
- Storage pool of the system disk
- Storage pool of the deployed data disk
- VM host
- Virtual storage of the system disk
- Virtual storage of the deployed data disk

- The server is running

The following items can be changed:

- Change the L-Platform name
- Change the server name
- Change the disk name
- Add a server
- Add a disk
- Change the boot priority
- Change the segment name
- IP address

Along with these, there are items that can be modified depending on the type of server virtualization software. Details are shown below. However, refer to "[NIC Add and Delete](#)" for information on adding and deleting NICs.

Item name	Change type	Server virtualization software						
		VMware	Hyper-V	RHEL-KVM	Solaris Zones	Citrix XenServer	OVM for X86	OVM for SPARC
Number of CPUs	Add	Y	N	N	Y	N	N	Y
	Reduce	N	N	N	Y	N	N	Y
CPU Performance	Add	Y	Y	Y	Y	N	Y	-
	Reduce	Y	Y	Y	Y	N	Y	-
CPU Reserved	Add	Y	Y	-	-	-	-	-
	Reduce	Y	Y	-	-	-	-	-
[VMware] CPU Shares [Hyper-V]	Add	Y	Y	-	-	N	-	-
	Reduce	Y	Y	-	-	N	-	-

Item name	Change type	Server virtualization software						
		VMware	Hyper-V	RHEL-KVM	Solaris Zones	Citrix XenServer	OVM for X86	OVM for SPARC
[Citrix Xen] CPU Weight								
Memory Size	Add	Y	N	O	Y	N	N	Y
	Reduce	N	N	O	Y	N	N	Y
[VMware] [Citrix Xen] Memory Reserved [Hyper-V] Memory RAM	Add	Y	N	-	-	N	-	-
	Reduce	Y	N	-	-	N	-	-
[VMware] Memory Shares [Hyper-V] Memory Weight	Add	Y	Y	-	-	-	-	-
	Reduce	Y	Y	-	-	-	-	-
Server Type	Modify	Y	Y	Y	Y	Y	Y	Y
Data disk size	Extend	Y	N	-	-	-	-	-
Host Name	Modify	Y	O	O	O	O	O	O

Y: Can be changed when the server is running

O: Depending on the system configuration, cannot be changed during server startup.

N: Cannot be changed when the server is running

- : No item or cannot be specified

[Physical server]

Regardless of the power status, only the following items can be changed.

- Change the L-Platform name
- Change the server name
- Change the disk name
- Add a server
- Add a disk
- Change the server type
- Change the boot priority
- Change the segment name
- Change the host name
- Regardless of whether or not an L-Platform reconfiguration completion notification email is received, check with the Infrastructure Administrator if an L-Platform is not changed. In this case, the change processing may have failed at the virtual server.
- Note the following points for Solaris Zones management servers:
 - It may not be possible to get server CPU performance, the number of CPUs, and memory size. "-" is displayed if this is the case.
 - When the OS of the virtual server is Solaris 10, attaching and detaching of disks is not possible.
 - When the virtual server OS is Solaris 11, disks already deployed cannot be deleted.

- The following operations are not possible:
 - Changes to NIC configuration
 - Disk size changes
- If the resource pool where the server is operating is not being managed by this product, it is not possible to change the number of CPUs, CPU performance, memory size, server name, or boot priority when changing configuration after deployment.
- If the resource pool where the server is operating is not being managed by this product, redundancy and automatic server release will not be changed even if the server type is changed.
- The number of CPUs and CPU performance may be different to the values allocated when the subscription was made. In this case, the number of CPUs and the CPU performance are adjusted so that the number of CPUs times the CPU performance becomes the same value.
- With Solaris 10 not managed by BladeLogic, reconfiguration of servers is not possible.
- If Server Type is changed, the following items are changed at the same time.

[Virtual server]

- Number of CPUs
- CPU Performance
- CPU Reserved
- CPU Shares/ CPU Weight
- Memory Size
- Memory Reserved/Memory RAM
- Memory Shares/ Memory Weight
- Heartbeat
- Redundancy
- Automatic server release

When changing only Redundancy, Heartbeat, or Automatic server release, set the CPU and memory items back to their previous values after changing Server Type.

[Physical server]

- Heartbeat
- Redundancy
- Automatic server release

- Server load balancers (SLB) cannot be added or deleted by changing the L-Platform configuration.
- If the number of NICs is increased, IP addresses will not be automatically set on the guest OS. After increasing the number of NICs, log into the guest OS and manually set the IP address displayed in the [L-Platforms] tab. After setting the IP address, check that the added NIC can communicate properly with other devices. If two or more NICs are being added, it is recommended to add one by one. If two or more NICs have been added at the same time, correctly set the IP address of each added NIC by setting the IP address and checking the communication for one NIC at a time.
- 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.
- When the NIC used to connect to the guest OS is deleted, it will no longer be possible to connect to the guest OS. When deleting the NIC used to connect to the guest OS, first add an NIC to take over the connection to the guest OS and confirm the connection, then delete the NIC.

- NICs cannot be added to or deleted from a server that has snapshots. When adding or deleting NICs, delete all snapshots of the server beforehand.
- The CPU performance, the CPU reserved, the CPU shares/CPU weight, number of CPUs, the memory size, memory reserved/memory RAM, and the memory shares/memory weight cannot be changed for servers with the VM pool name set to "-".
- If the server's VM pool name set is deleted, changed or moved, then CPU performance, number of CPUs and memory size cannot be changed.
- The capacity cannot be expanded for disks whose storage pool is deleted, renamed, or moved.
- Depending on the guest OS type, disks with expanded capacities may not be recognized or used by the OS. Refer to server virtualization software manuals and technical information to ensure that the expanded disk can be used.
A separate operation is required to make the expanded disk recognizable on the guest OS. Refer to manuals and technical information for each OS for information on the required operations.
- When an IP address is changed, it is not automatically configured as the IP address on the guest OS. After changing an IP address, log in to the guest OS and manually configure the changed IP address.
- When a host name is changed, it is not automatically configured as the host name on the guest OS. After changing a host name, log in to the guest OS and manually configure the changed host name.
- The IP addresses of NICs that are the distribution targets of server load balancers (SLB) cannot be changed.
- When addition of a server and changing of a server name or host name are performed at the same time, or multiple server names or host names are changed at the same time, system settings may cause names to overlap making change impossible.
This applies in cases like the following.
 - When a name used for a server or host before the change is specified for the server name of a server being added
 - When the server names or host names of multiple servers have been switched

If names overlap, perform the configuration changes in several steps.

- When using the host name for the L-Server name, the host names of servers using server virtualization software other than VMware and the host names of virtual servers cannot be changed when they are running.
- For servers using server virtualization software other than VMware or Hyper-V, disk capacities cannot be extended.

Follow the steps below to modify the system configuration that configures the L-Platform in use:

1. Display the [L-Platform Details] window.
Refer to "5.3.2 L-Platform Detailed Information Display" for information on how to display the window.
2. Click the [Reconfigure] button and display the [Reconfigure] window.
3. Modify the system configuration as required on the [Reconfigure] window.

Usage fees corresponding to the system reconfiguration will be displayed in the top-right of the window.

Point

Estimated charges for the L-Platform will only be displayed when the usage fees display is set to enabled.
The displayed usage fees will be calculated according to current prices, and not according to prices at the time of deployment.

Note

The pool cannot be changed for system disks and extended disks that have already been deployed. If a cloning image associated with the image information includes a data disk, changes to the number of disks cannot be made until deployment is complete.

4. When the L-Platform is modified, click the [Next] button.
The [Confirm] window will be displayed.
The difference between the old L-Platform and the new L-Platform is displayed as follows:

Item name	Display format
Item changed	The values of the changed items are displayed in red. The old value is displayed as "Changed from <i>the old value</i> ".
Item added	"*Added" is displayed after items that have been added. The values of the added items are displayed in red. The background of the added item is displayed in red.
Item deleted	"*Deleted" is displayed after items that have been deleted. The background of the deleted item is displayed in gray.

Point

[CSV output]

When the [Save as CSV] button located at the bottom left of the window is clicked, a browser standard file download dialog is displayed where the L-Platform template can be saved as a CSV file.

The default CSV file name format is shown below. This file name can be modified as necessary.

```
SystemConfiguration (+ <L-Platform name> +)_ <date> + .csv
```

[Save specification]

Click the [Save Configuration] button to save the L-Platform configuration.

5. Check the displayed contents of the L-Platform configuration, and click the [Next] button.
The [Agreement] window will be displayed.
6. Check the license agreement displayed. Select the [Agree the license] check box, and then, click the [OK] button.

Point

When the application process is enabled, clicking of the [OK] button on the [Agreement] window displays the [Forward screen] window. Refer to "5.5 Select Forward Destination of Application Process" for details.

The following message will be displayed when an application for modification of an L-Platform is accepted.

- When the application process is disabled
"The request to reconfigure the L-Platform has been completed. The reconfiguration takes some time to complete."
- When the application process is enabled
"The request to reconfigure the L-Platform has been completed. The L-Platform will be reconfigured after approval and/or judgement procedures."

Point

- When an L-Platform is changed, an L-Platform reconfiguration completion notification email is sent to the subscriber.
If an L-Platform change fails, an L-Platform reconfiguration failure notification email is sent to the subscriber and the Infrastructure Administrator. In this case, check with the Infrastructure Administrator about the action required.
Refer to "A.2 Emails Sent when Reconfiguring an L-Platform" for information on the flow and content of email messages sent to the subscriber, tenant administrator, and infrastructure administrator when reconfiguring an L-Platform.
- If the server virtualization software is RHEL-KVM or the subscribed L-Platform includes a Windows server, after deployment the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name. Request the tenant administrator to configure the server after deployment.
- If the server virtualization software is OVM for x86, the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name following deployment. Request the tenant administrator to configure the server after deployment.

- If the server virtualization software is Citrix XenServer, then depending on the cloning image, the L-Platform will be available only after the infrastructure administrator configures the IP address, default gateway, and host name after deployment. Request the tenant administrator to configure the server after deployment. Check with the tenant administrator whether the cloning image requires configuration (IP address, etc.) after deployment.
- When the server virtualization software is OVM for SPARC, IP addresses are set only **to the NICs that are connected to admin LAN** when you deploy a server whose guest OS is Solaris 11. It is therefore recommended that you connect the NIC to the admin LAN. If a deployed server is not connected to admin LAN, the tenant administrator needs to set IP addresses and default gateways to the server before use. You also need to set IP addresses on guest OS to the NICs that are connected to business LAN, by confirming deployed IP addresses on the [L-Platforms] tab.
- When using Solaris Zones as server virtualization software, an IP address is only configured for the first NIC when deploying a server which uses Solaris 11 for the guest OS. Therefore, when using multiple NICs, use the [L-Platforms] tab to check the IP addresses allocated to the second and later NICs after completing deployment of the relevant server, and directly configure the settings on the guest OS.
- If the server virtualization software is OVM for SPARC or Solaris zone, after your deployment the tenant administrator needs to configure deployed servers to enable direct root ssh login.
When specifying an administrator user name other than "root" when deploying a server using Solaris Zones as server virtualization software, it is not necessary to make a request to the infrastructure administrator as connections using ssh are possible in the initial state.
- Note the following points if the server virtualization software is OVM for SPARC:
 - If an increase or decrease of the number of NICs is required after deployment, contact the tenant administrator.
 - With servers not managed by BladeLogic, it is not possible to change the number of CPUs, the size of the memory, and boot priority when you reconfigure after deployment. It is also not possible to delete servers and disks.
- If the server virtualization software is RHEL-KVM, contact the infrastructure administrator for information on how to subscribe to servers other than Windows or Linux servers.

5.3.12 Cancel an L-Platform

Follow the steps below to cancel an L-Platform:

1. Display the [L-Platform Details] window.
Refer to "[5.3.2 L-Platform Detailed Information Display](#)" for information on how to display the window.
2. Stop all the servers of the system that configures the L-Platform to be canceled.
Refer to "[5.3.3 Start and Stop the Server](#)" for information on how to stop a server.
3. Click the [Unsubscribe] button.
The [Confirm] window will be displayed.
4. Confirm that the correct L-Platform is being canceled, and click the [Next] button.
The [Agreement] window will be displayed.
5. Select the [Agree the license] check box to cancel the subscription, and click the [Unsubscribe] button.



Point

When the application process is enabled, clicking of the [Unsubscribe] button on the [Unsubscribe] window displays the [Forward screen] window. Refer to "[5.5 Select Forward Destination of Application Process](#)" for details.

When the L-Platform is canceled, the following message will be displayed and the [L-Platforms List] window displays:

- When the application process is disabled
"The L-Platform has been unsubscribed."
- When the application process is enabled
"The L-Platform to unsubscribe the L-Platform has been completed. The L-Platform will undeploy after approval and/or judgment procedures."

Note

When the following events occur, cancellation application may become impossible.

Notify the Infrastructure Administrator of the content displayed on the window.

- The pop-up blocker has been enabled and the [Forward screen] window is not displayed.
- An error message is displayed on the [Forward screen] window.

Point

When an L-Platform is cancelled, a cancellation completion notification email is sent to the subscriber.

If an L-Platform cancellation fails, a cancellation failure notification email is sent to the subscriber and the Infrastructure Administrator. In this case, check with the Infrastructure Administrator about the action required.

Refer to "[A.3 Emails Sent when Canceling an L-Platform](#)" for information on the flow and content of email messages sent to the subscriber, tenant administrator, and infrastructure administrator when canceling an L-Platform.

5.3.13 Reconfiguration window

The following configuration can be defined on the [Reconfigure] window.

- Connection destination: Represents a connection destination external to the L-Platform, and the IP addresses to be published.
- Segment: Represents a network segment located on the L-Platform
- Virtual server: Represents a server on the L-Platform
- Physical server: Represents a physical server.
- Disk: Represents an extended disk that is not a system disk but can be added to the virtual server or physical server.

An example of the [Reconfigure] window display is shown below.

The screenshot displays the 'Reconfigure' window with three main sections:












- L-Platform configuration:** Shows the L-Platform ID 'test-SCLR2MQD' and a table with columns for L-Platform, Template name, and IP address. The table contains one entry: 'AdminLAN' with IP '192.168.50.0/24'. Below the table are icons for 'WEB1' and 'WEB2'.
- Detailed of L-Platform elements:** A section for 'Basic Information' with fields for Host name (VSC6LR2MQD0001), Type (High_Performance), VM pool (A.LargeVMPool), Number of CPUs (4), CPU Performance (0.1-2.6GHz) (2.6), and CPU Reserve (0.1-2.6GHz) (0.1). It includes 'ON', 'OFF', and 'Delete' buttons.
- Additional Options:** A sidebar on the right with a 'Servers' tab, showing a list of Windows Server 2016 and 2008 R2 Standard and Enterprise editions with their respective OS versions and software.

At the bottom, there are 'Next' and 'Cancel' buttons.

The configuration of the [Reconfigure] window is shown below:



Pane name	Description
L-Platform configuration	Located on the upper side of the window. Displays the [L-Platform configuration]. The displayed elements are connection destinations, firewalls, segments, server load balancers, virtual servers, physical servers, and disks. Selected elements are displayed in the [Details of L-Platform element] pane.
Additional Options	Located on the right side of the window. Displays a list of elements (virtual server, physical server, segment, and disk) that can be added to the [L-Platform configuration]. The listed elements can be added to the [L-Platform configuration] by dragging and dropping them to the [L-Platform configuration] pane. To add a disk to the virtual server or physical server, drag and drop it there from the list displayed in the [Disks] tab.
Details of L-Platform element	Located on the lower side of the window. Displays details about the elements selected in the [L-Platform configuration] pane and allows their content to be edited. By clicking the [Delete] button, the elements such as a virtual server or physical server or a disk can be deleted from [L-Platform configuration]. Software information can be checked in a new window by clicking the [Software Details] button. Click the [Add NIC] button to add NICs. The [Add NIC] button is enabled only if NICs can be added. Click the [Delete NIC] button to delete targeted NICs.



Icons displayed in the [L-Platform configuration] area are as follows.

Icon	Explanation	Icon	Explanation
	Virtual server without data disks		Virtual server with a single data disk
	Virtual server with multiple data disks		Physical server without data disks
	Physical server with a single data disk		Physical server with multiple data disks
	NIC of a Virtual server		NIC of a Physical server
	Grouped NICs		Firewall
	Server Load Balancer(SLB)		

Icons displayed in the [L-Platform configuration] area to indicate server statuses are shown below.



The power status is displayed using color to the left of the server name.

Icon	Explanation	Icon	Explanation
	Stopped		Running









Icon	Explanation	Icon	Explanation
	Starting, stopping, being deployed, or in a failover		Failed to start or stop

The icons to indicate NICs or servers that are targets for server load balancer (SLB) distribution when the SLB displayed on the [L-Platform configuration] pane is selected are as shown below.

The following examples show a virtual server NIC and a virtual server with a single data disk. There are similar icons for various other NICs and servers.

Icon	Explanation	Icon	Explanation
	Virtual server NIC for SLB distribution		Virtual server, with a single data disk, for SLB distribution

Icons displayed in [Additional Options] area are as follows.

Icon	Explanation	Icon	Explanation
	Virtual image information without data disks		Physical image information without data disks
	Virtual image information with data disks		Management segment
	Business segment		Management segment with admin LAN allocated
	Disconnected disk		Connected disk

Information

Hover the mouse over the icons displayed in [Additional Options] to check details about the image information, such as the name, OS, segment name, disk name, label, and comments.

5.3.13.1 Edit the L-Platform

The L-Platform can be edited on the [Reconfigure] window.

The L-Platform name entered on the [Basic info] window can be modified.

The types of disks that can be added are new disks and existing disks.

New disks can be added to virtual servers and physical servers. Existing disks are displayed if an Infrastructure Administrator has registered them to a storage pool that can reference already created disk resources, and can be added to physical servers.

Note

If the server includes disks not managed by Resource Orchestrator, disks cannot be added or deleted.

5.3.13.2 Firewall

When you select a firewall, you can check its settings.

You cannot delete a firewall from an L-Platform.

Item name	Description
ruleset	Displays the name of the 'ruleset' set for the firewall. The ruleset name cannot be changed.

Click [Setting] button to check the parameter values in the ruleset. The values set as the default are the values specified in the L-Platform template.

Note

The firewall for a server added by a new L-Platform subscription or L-Platform reconfiguration is set after the L-Platform is deployed. Refer to "5.3.7 Setup Firewall" for details.

5.3.13.3 Edit a Segment

A segment can be edited by selecting the segment to be edited.

It is possible to select whether a subnet allocated to the segment can be set automatically or manually in the segment editing. Note, however, that subnets cannot be modified in the L-Platform configuration after the system has been deployed.

If the network to be connected to is specified in the L-Platform template, the specified network remains selected.

The following window displays an example of the [Reconfigure] window when a segment name is clicked. The following window shows the [Reconfigure] window for L-Platform configuration changes.

The screenshot shows the 'Reconfigure' window with a progress bar at the top indicating three steps: 1. Reconfigure, 2. Confirm, and 3. Agreement. The main content area displays configuration details for a segment named 'ServiceLan' under the 'Business' category. The segment type is 'DMZ', and the maximum number of NICs is set to 1. The subnet address is 192.168.24.0 with a mask of 255.255.255.0. The start address is 192.168.24.1 and the end address is 192.168.24.254, resulting in 155 available IP addresses. A table below shows the range of excluded addresses: No. 1, Start address 192.168.24.100, End address 192.168.24.150. On the right, an 'Additional Options' panel shows a list of segments: Automatic, AdminLAN (Management admin), Global-DMZ (Business NO_SLB), ServiceLan (Business DMZ), SmallServiceLan (Business), and test_network. The 'ServiceLan' segment is currently selected. A 'Delete' button is visible next to the segment name. At the bottom right, there are 'Next' and 'Cancel' buttons.

Details of configuration

Item name	Description
Category	Specify the category when an automatically selected segment is added. The default is "Business segment". <ul style="list-style-type: none"> - Business segment: A segment where business servers are deployed - Management segment: A segment where servers that monitor business or similar are deployed
Segment type	Specify the segment identification information used if segments are selected automatically when additions are made by segment extension.
Maximum number of NICs	Specify the maximum number of NICs that can be deployed in a segment. The value can be changed only if you are subscribing to a New L-Platform.

Item name	Description
Subnet addresses	If the subnet setting is set to Manual, select an item from the list of subnet addresses or network resources. The setting item (whether to select from subnet addresses or network resources) depends on system settings.
Subnetmask	For manual configuration, specify the subnetmask value of the network used by the segment. Otherwise, subnetmask value is displayed.
Start IP address	Start IP address of the network resource is displayed. For manual configuration, specify the start IP address in the input field.
End IP address	End IP address of the network resource is displayed. For manual configuration, specify the end IP address in the input field.
Number of available IP addresses	Number of available IP addresses of the segment.
Subnet setting	Specify whether to configure subnet manually or automatically. <ul style="list-style-type: none"> - Automatic: Configure automatically from available network resources. - Manual: Select the target network resource from the available values.

[Others] tab of [Additional Options]

Item name	Description
Segment	Extend a segment.



Note

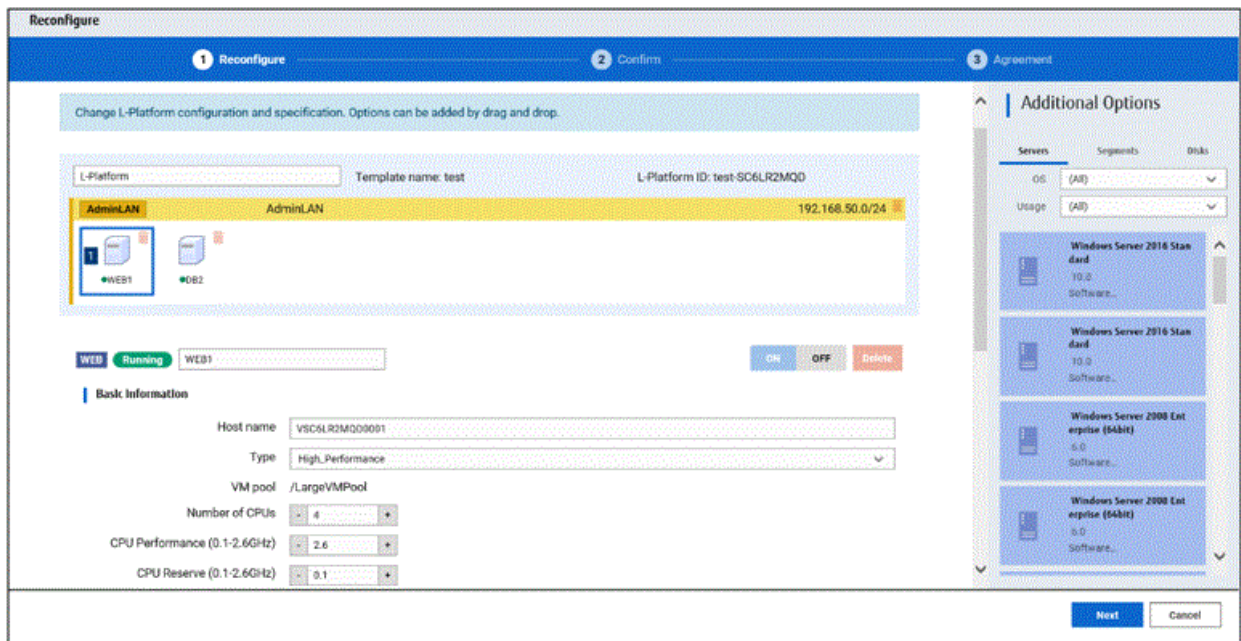
Segment extension and reduction

- A network can be extended to the maximum number of segments for an L-Platform Template.
- Since at least one segment is required, it is not possible to delete all segments. When using an L-Platform template with no segments defined, attach at least one segment.
- When a segment is deleted, the connected servers and NICs are also deleted. To delete a segment and NICs but not the servers, delete the NICs first and then delete the segment.
- A segment where there is a server load balancer cannot be deleted.
- The number of segments under firewall control cannot be changed.
- Reduction is not possible while a server is operating.
- In estimated charges, the unit price for NICs deployed in segments where [Subnet Settings] is "Auto-configure" is treated as being 0 Japanese Yen.

5.3.13.4 Edit a Virtual Server

Selecting a virtual server enables editing of that virtual server.

A display example of virtual server setting information is shown below.



Item name	Description
Virtual server name	<p>Sets the virtual server name specified in the L-Platform template.</p> <p>For a virtual server added using [Additional Options], "usage + (the number of servers + 1)" is automatically set.</p> <p>To rename, the name must be no more than 85 characters long and not include the following characters:</p> <p style="text-align: center;"><, >, &, ', " and control characters</p> <p>However, the strings and the number of characters that can be specified may vary depending on the system settings. When the OS of the managed server is Windows, specification using up to 15 of the characters below is recommended. For other OSs, specification using up to 63 characters is recommended. The value specified for this item cannot consist of only numbers. Hyphens cannot be used for the first character.</p> <p style="text-align: center;">Alphanumeric characters, underscores ("_") and hyphens ("-")</p> <p>A pre-existing name cannot be specified.</p>
Type	<p>From the drop-down menu, select the type (specifications) of the registered server.</p> <p>"---- Select ----" is displayed if the type specified before reconfiguration does not exist.</p> <p>The CPU, memory size, and System Disk will be set according to the type of the server selected.</p> <p>The settings for the following L-Server features are also made:</p> <ul style="list-style-type: none"> - Heartbeat - Redundancy - Automatic server release
VM pool	<p>From the drop-down menu, select the resource name of the VM pool that is the server deployment destination.</p> <p>"---- Select ----" is displayed if the type specified before reconfiguration does not exist.</p> <p>Contact the infrastructure administrator in the event that an error message is</p>

Item name		Description
		displayed indicating that no existing pool can be selected as the server deployment destination.
Host name		<p>From the drop-down menu, select the resource name of the VM host that is the server deployment destination.</p> <p>Select from the resources registered in the pool selected in the VM Pool section. "---- Select ----" is displayed if the VM pool specified before reconfiguration does not exist.</p> <p>It can be selected when the server virtualization software is VMware or OVM for SPARC.</p>
CPU	Number of CPUs	<p>Set the number of CPUs of the virtual server.</p> <p>Specify the lesser of the two values: Enter either the maximum value entered for image information or enter the maximum value of the VM pool, number of cores of VM hosts with the most numbers of cores.</p> <p>A value outside the range cannot be set.</p>
	Performance	<p>Specify CPU performance of the virtual server in GHz.</p> <p>Specify the lesser of the two values: Enter either the maximum value entered for image information or enter the maximum value of the VM pool, value of operational frequency of VM hosts with the most value of operational frequency.</p> <p>A value outside the range cannot be set.</p> <p>This cannot be specified if the server virtualization software is OVM for SPARC.</p>
	Reserved	<p>Specify the reserved CPU performance for the virtual server, in GHz.</p> <p>The minimum value for the reserved clock speed that is guaranteed to be allocated to the virtual server can be specified. It is not possible to specify a value that is greater than the operating clock speed.</p> <p>Any value outside the allowable range cannot be specified.</p> <p>When using Resource Orchestrator and server virtualization software, if the recognized physical CPU performance values are different, specify a value less than the smaller of the two.</p> <p>This is not displayed and cannot be specified if the server virtualization software is RHEL-KVM.</p>
	[VMware] Shares [Hyper-V] [Citrix Xen] Weight	<p>Specify the relative allotment ratio for determining the allotment of memory size when multiple virtual machines are competing for memory resources.</p> <p>[VMware] Specify an integer up to 1,000,000.</p> <p>[Hyper-V] If the reconfiguration simplification function is disabled and the easy selection method is set, set values are as follows:</p> <ul style="list-style-type: none"> - Low (500) - Standard (1,000) - High (2,000) <p>[Citrix Xen] Specify an integer up to 65,535.</p> <p>This is not displayed and cannot be specified if the server virtualization software is RHEL-KVM.</p>
Memory	Size	<p>Specify the memory size of the virtual server in GB.</p> <p>Specify the lesser of the two values: Enter either the maximum value entered for image information or enter the maximum value of the VM pool, free memory size of VM hosts with the most free memory size.</p>

Item name		Description
		<p>[OVM for x86 3.x] The minimum value is 0.3.</p> <p>[KVM] The maximum value is 256.</p> <p>A value outside the range cannot be set.</p>
	[VMware] [Citrix Xen] Reserved [Hyper-V] RAM	<p>Specify the reserved memory size for the virtual server, in GB. The minimum value for the reserved memory size that is guaranteed to be allocated to the virtual server can be specified. It is not possible to specify a value that is greater than the memory size.</p> <p>[Citrix Xen] The minimum value is 0.2.</p> <p>Any value outside the allowable range cannot be specified. This is not displayed and cannot be specified if the server virtualization software is RHEL-KVM.</p>
	[VMware] Shares [Hyper-V] Weight	<p>Specify the relative allotment ratio for determining the allotment of memory size when multiple virtual machines are competing for memory resources.</p> <p>[VMware] Specify an integer up to 1,000,000.</p> <p>[Hyper-V] If the reconfiguration simplification function is disabled and the easy selection method is set, set values are as follows:</p> <ul style="list-style-type: none"> - Low (500) - Standard (1,000) - High (2,000) <p>This is not displayed and cannot be specified if the server virtualization software is RHEL-KVM.</p>
Boot priority		<p>Sets the priority order when performing batched power supply operations in either the L-Platform or the tenant. The smaller the value, the higher the priority orders.</p> <p>Set to 0 when power supply operations are not carried out in a single batch. Note however that this value cannot be set to 0 at the time of new deployment.</p>
System Disk	Storage pool	<p>From the drop-down menu, select the storage pool to be used. "---- Select ----" is displayed if the type specified before reconfiguration does not exist.</p> <p>If the server virtualization software is OVM for x86, only [Automatic] can be selected.</p> <p>If the server virtualization software is OVM for SPARC, or if the server virtualization software is RHEL-KVM and the image location type of the cloning image specified for the image information is "Raw Disk", then the value set in the [Disk resource specification] window will be displayed. To change the settings, click the [Change] button to open the [Disk resource specification] window.</p>
	Virtual Storage	<p>From the drop-down menu, select the virtual storage to be used. Select from the resources registered in the pool selected in the Storage Pool section. "---- Select ----" is displayed if the storage resource specified before reconfiguration does not exist.</p> <p>It can be selected when the server virtualization software is VMware.</p>

Item name		Description
	Size	<p>Specify the disk capacity of the virtual server in GB.</p> <ul style="list-style-type: none"> - When reconfiguring during subscription The minimum allowed value is the system disk size of the image information. The maximum allowed value is the lesser of the maximum system disk capacity of the image information or the maximum disk capacity of the storage pool. If the server virtualization software is OVM for SPARC, or if the server virtualization software is RHEL-KVM and the image location type of the cloning image specified for the image information is "Raw Disk", then the value set in the [Disk resource specification] window will be displayed. To change the settings, click the [Change] button to open the [Disk resource specification] window. - When reconfiguring after deployment The minimum allowed value is the current disk capacity. The maximum allowed value is the lesser of the maximum system disk capacity of the image information or the maximum disk capacity of the storage pool. The value can be changed only if the server virtualization software is VMware or Hyper-V.
	Disk resource specification	<p>Specify this item if the server virtualization software is OVM for SPARC, or if the server virtualization software is RHEL-KVM and the image location type of the cloning image specified for the image information is "Raw Disk". The disk resource can be automatically selected according to the size of the system disk, or the disk resource can be directly selected. To make the settings, click the [Change] button to open the [Disk resource specification] window.</p> <ul style="list-style-type: none"> - When you specify a disk resource according to the size of the system disk: A disk resource with a size larger than the size of the system disk is selected automatically. Select the [Specify by the size of the disk] option button, then specify a storage pool and a disk size. A disk resource is selected from amongst those on the selected storage pool. If the storage pool value is Automatic, then a disk resource is selected from amongst the available storage pools. - If specifying a disk resource directly: Directly specify the disk resource to be used. After selecting the [Specify by the resource name] option button, select the disk resource from the list.

Point

The icons displayed in front of the virtual server names correspond to the usage of the virtual servers described in the specification.

- WEB: Web server
- AP: Application server
- DB: Database server

When a virtual server has multiple usages, an icon showing each usage separated by "/" will be displayed.

Example: WEB/AP, AP/WEB/DB etc.

Note

- The server type cannot be changed with some types of server virtualization software.
- When the 0 or no valid value is specified for CPU frequency, CPU reserve clock rate, memory size, or memory reserve size, it is treated as if the value 0.1 were specified. This modification is included in the changed items.
- Depending on the guest OS type, system disks which capacity is expanded may not be recognized or used by the OS. Refer to server virtualization software manuals and technical information to ensure that the expanded disk can be used.
A separate operation is required to make the expanded disk recognizable on the guest OS. Refer to manuals and technical information for each OS for information on the required operations.
- If [Automatic] is selected for the system disk storage pool, estimated charges will be calculated based on a system disk unit price of 0 Japanese Yen.
Note that estimated charges may differ to the actual charges because usage charges are calculated according to the unit price of the storage pool that creates the system disk after subscription or reconfiguration is complete.
- System disk capacity cannot be expanded in the following cases:
 - When snapshots exist on the server
 - When disks not managed by ROR, such as RDM (Raw Device Mapping), are connected to the server

NIC information can be edited by selecting a NIC. Set the IP address allocated to an NIC.

Note that the IP address can be set only if "manual setting" is specified for the subnet during segment editing. However, since the subnet cannot be changed by reconfiguration after a system is deployed, IP address changes are also not possible.

A display example of the NIC reconfiguration is shown below. The following window shows the [Reconfigure] window for L-Platform configuration changes.

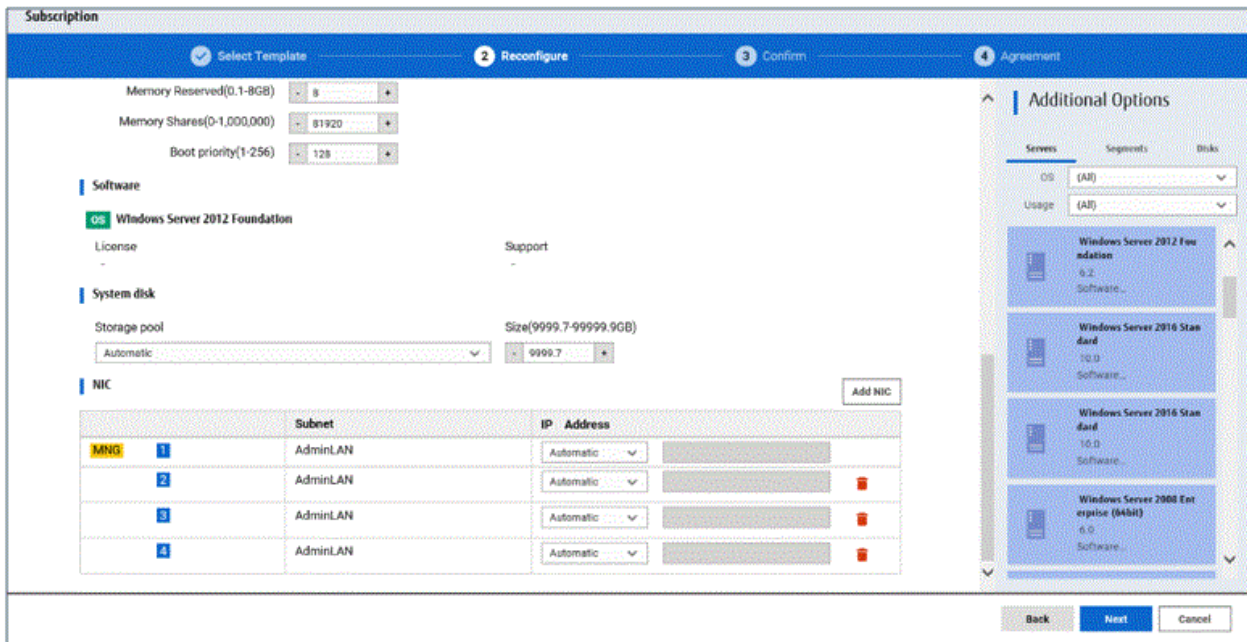
	Subnet	IP Address
[MNG] 1	AdminLAN	192.168.30.28
2	AdminLAN	Automatic Manual

There are two ways of specifying an IP address as follows:

- Automatic
Sets an IP address automatically from a subnet.
- Manual
Enters an IP address directly.
When there is a conflict between the specified IP address and network resources, an error message will be displayed.

An [MNG] icon is displayed for the control NIC.

The following window displays an example of an L-Platform where multiple NICs exist. The following window shows the [Reconfigure] window used to subscribe to an L-Platform.



Each NIC is represented by one server. When a server is selected, the same server in each segment is selected. When a server is selected an icon is displayed showing a number at its lower left hand corner. The number represents an NIC number. Dark-colored servers are the NICs for administration, and light-colored servers are NICs for business.

When a server is dragged from the [Additional Options] and dropped on a segment, as many servers as the number of NICs specified for the segment in the image information are displayed.

Selecting software information makes it possible to check the software of the operating systems installed on virtual servers and the information of patches that have been applied to software.

When a virtual server has image information for VDI coordination, it is possible to check the VDI user name, the name of the VDI pool the virtual server will belong to after deployment, and the connection information of the VDI admin server.

If the server virtualization software of the virtual server is Solaris Zones and the OS of the virtual server is Solaris 11, the administrator user name can be checked.

Point

When an infrastructure administrator permits setting of VDI user names, the VDI user can be specified when applying to use an L-Platform. Specify the VDI user name in the following format.

```
NetBIOS domain name\user name
```

Note

The following message may be displayed when VDI definitions are incorrect. When the following message is displayed even when the specified VDI user is correct, consult with the infrastructure administrator.

```
One or more specified VDI user name is not valid. Please check VDI user names.
```

Or

```
The NetBIOS Domain of one or more VDI users is not valid. Please check the NetBIOS Domain.
```

NIC Add and Delete

This section explains NIC add and delete.

A business NIC can be added to the same segment as the control NIC by clicking the [Add NIC] button.

Click the [Delete NIC] button deletes an NIC.

Note

- Whether it is possible to add NICs to or delete NICs from the servers that have been deployed differs depending on the type of the server virtualization software and power status of the server. Details are shown below:

Operation	Server status	VMware	Hyper-V	RHEL-KVM	Solaris Zones	Citrix XenServer	OVM for X86	OVM for SPARC
Add	Stop	Y	Y	Y	N	N	N	N
	Operation	Y	N	N	N	N	N	N
Delete	Stop	Y	Y	Y	N	N	N	N
	Operation	Y	N	N	N	N	N	N

Y: Can add or delete

N: Cannot add or delete

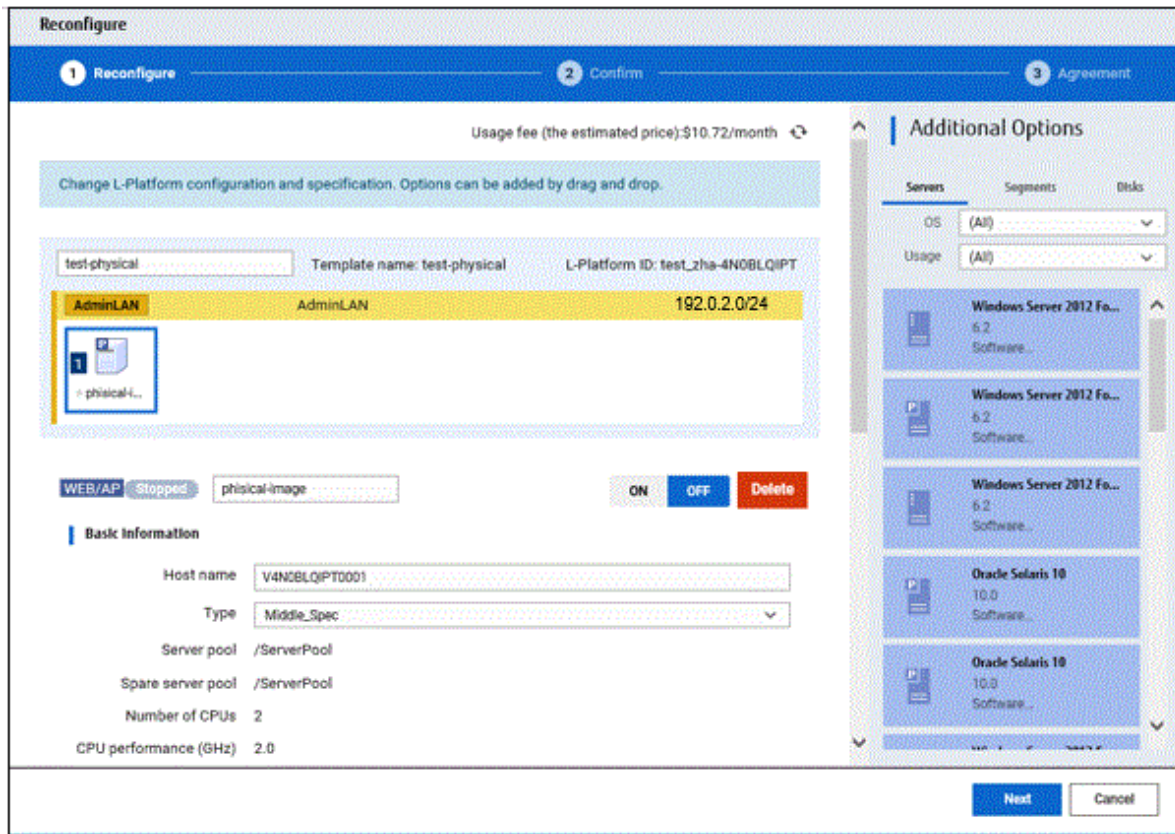
- A maximum of eight NICs can be added with Solaris Zones management servers.
- NICs cannot be added if they would exceed the maximum number of connections for the segment.
- Since at least one NIC is required, it is not possible to delete all NICs.
- If the server virtualization software is OVM for SPARC, request the tenant administrator to add a NIC to or delete a NIC from a deployed server.

5.3.13.5 Editing a Physical Server

Selecting a physical server enables editing of that physical server.

For a deployed physical server, only the server name, the server type, and the boot priority can be changed.

A display example of physical server reconfiguration is shown below.



Item name	Description
Host name	<p>Sets the name of a physical server that is in the L-Platform Template. For a virtual server added using [Additional Options], "usage + (the number of servers + 1)" is automatically set.</p> <p>To rename, the name must be no more than 85 characters long and not include the following characters:</p> <p style="text-align: center;"><, >, &, ', " and control characters</p> <p>However, the strings and the number of characters that can be specified may vary depending on the system settings. When the OS of the managed server is Windows, specification using up to 15 of the characters below is recommended. For other OSs, specification using up to 63 characters is recommended. The value specified for this item cannot consist of only numbers. Hyphens cannot be used for the first character.</p> <p style="text-align: center;">Alphanumeric characters, underscores ("_") and hyphens ("-")</p> <p>A pre-existing name cannot be specified.</p>
Type	<p>From the drop-down menu, select the type (specifications) of the registered server.</p> <p>"---- Select ----" is displayed if the type specified before reconfiguration does not exist.</p> <p>The CPU, memory size, and System Disk are set according to the selected server type.</p> <p>The settings for the following L-Server features are also made:</p> <ul style="list-style-type: none"> - Heartbeat - Redundancy

Item name		Description
		- Automatic server release
Server pool		From the drop-down menu, select the resource name of the server pool that is the server deployment destination. "---- Select ----" is displayed if the type specified before reconfiguration does not exist. Contact the infrastructure administrator in the event that an error message is displayed indicating that no existing pool can be selected as the server deployment destination.
Reserve server pool		From the drop-down menu, select the resource name of the reserve server pool. "---- Select ----" is displayed if the type specified before reconfiguration does not exist. Contact the infrastructure administrator in the event that an error message is displayed indicating that no existing pool can be selected as the server deployment destination.
CPU	Number of CPUs	Set the number of CPUs in the physical server. Range: 1-99. If the maximum number of CPUs is configured in the image information, the upper limit is set to that value. Any value outside the allowable range cannot be specified.
	performance	Specify the CPU performance of the physical server in GHz units. Range: 0.1-99999.9. If the maximum CPU performance is configured in the image information, the upper limit is set to that value. Any value outside the allowable range cannot be specified.
Memory	Size	Specify the memory size of the physical server in GB units. Range: 0.1-99999.9. If the maximum memory size is configured in the image information, the upper limit is set to that value. Any value outside the allowable range cannot be specified.
System Disk	Storage pool	From the drop-down menu, select the storage pool to be used. "---- Select ----" is displayed if the type specified before reconfiguration does not exist.
	Size	Specify the disk capacity of the physical server in GB. When reconfiguring during subscription The minimum allowed value is the system disk size of image information. The maximum allowed value is the lesser of the maximum system disk capacity of image information or the maximum disk capacity of storage pool. When reconfiguring after deployment The size cannot be changed.
Boot priority		Sets the priority order when performing batched power supply operations in either the L-Platform or the tenant. Range:1-256.The smaller the value, the higher the priority order. Set to 0 when power supply operations are not carried out in a single batch. Note however that this value cannot be set to 0 at the time of new deployment.

Note

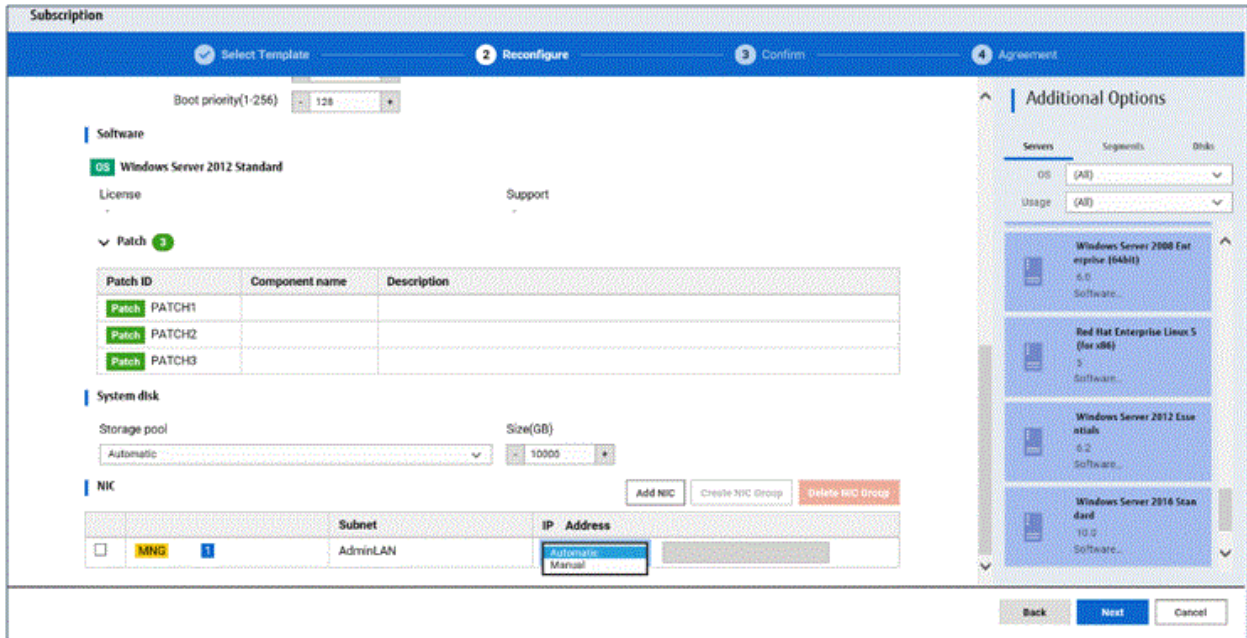
The server pool physical server with details closest to the specified CPU and memory information is allocated.
If you are deploying a physical server, the estimated and actual charges are calculated based on the values entered for CPU performance and memory size in this step.

Select a NIC and set the IP address allocated to that NIC.

Use the [NICs] tab to set the IP address allocated to an NIC.

Note that the IP address can be set only if "manual setting" is specified for the subnet during segment editing. However, since the subnet cannot be changed by reconfiguration after a system is deployed, IP address changes are also not possible.

A display example of NIC reconfiguration is shown below. Note that the window shown below is the L-Platform subscription [Reconfigure] window.

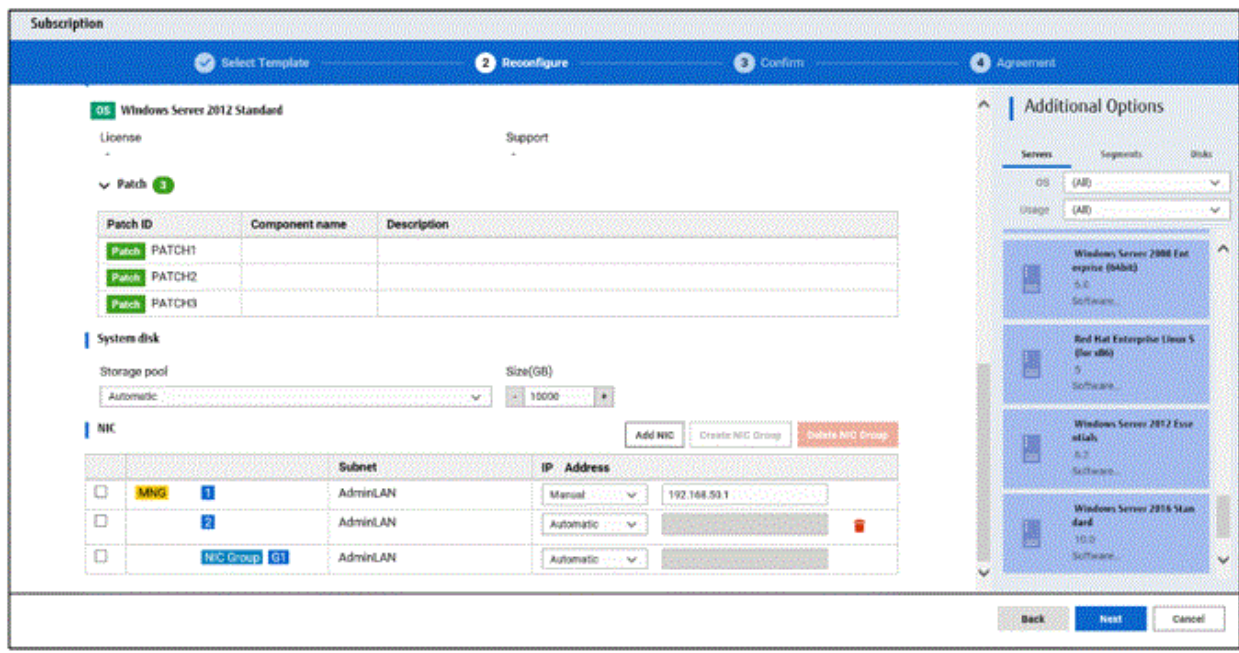


The following two methods are available for specifying an IP address:

- Automatic
The IP address is set automatically from the subnet.
- Manual
Enter the IP address directly.
An error message is displayed if the specified IP address is inconsistent with the network resources.

The [MNG] icon is displayed for the control NIC.

The window below is an example of the display when there are multiple NICs. Note that the window shown below is the L-Platform subscription [Reconfigure] window.



NIC1 is represented by one physical server. When a server is selected, the selected state occurs for all the same servers. A numeric icon is displayed to the bottom left of selected servers. It indicates the NIC number. Dark-colored servers indicate management NICs, and light-colored servers indicate business NICs.

If a segment is dragged and dropped from [Additional Options], the number of servers displayed matches the number of NICs specified in the image information of the segment.

Point

The NIC setting will be an untagged VLAN.

Selecting software information makes it possible to check the software of the operating systems installed on physical servers and the information of patches that have been applied to software.

NIC Add and Delete

This section explains NIC add and delete.

Addition and deletion of NICs for physical servers is possible only when applying for L-Platform subscriptions and when adding (new) servers during L-Platform reconfiguration.

A business NIC can be added to the same segment as the control NIC by dragging and dropping the [NIC] icon.

Click the [Delete NIC] button deletes an NIC.

Note

- NICs cannot be added if they would exceed the maximum number of connections for the segment.
- Since at least one NIC is required, it is not possible to delete all NICs.
- When add or delete NICs for a physical server, configure the number of NICs after settings are made to match the number of NICs of the physical server being used.

NIC Grouping

This function is available with physical servers only.

This section explains NIC grouping.

- Making a group

Select multiple checkboxes, and then click the [Create NIC Group] button. However, Multidata input NIC cannot be grouped. Groups can include control NIC.

- Cancelling a grouping

Select multiple checkboxes, and then click the [Delete NIC Group] button.

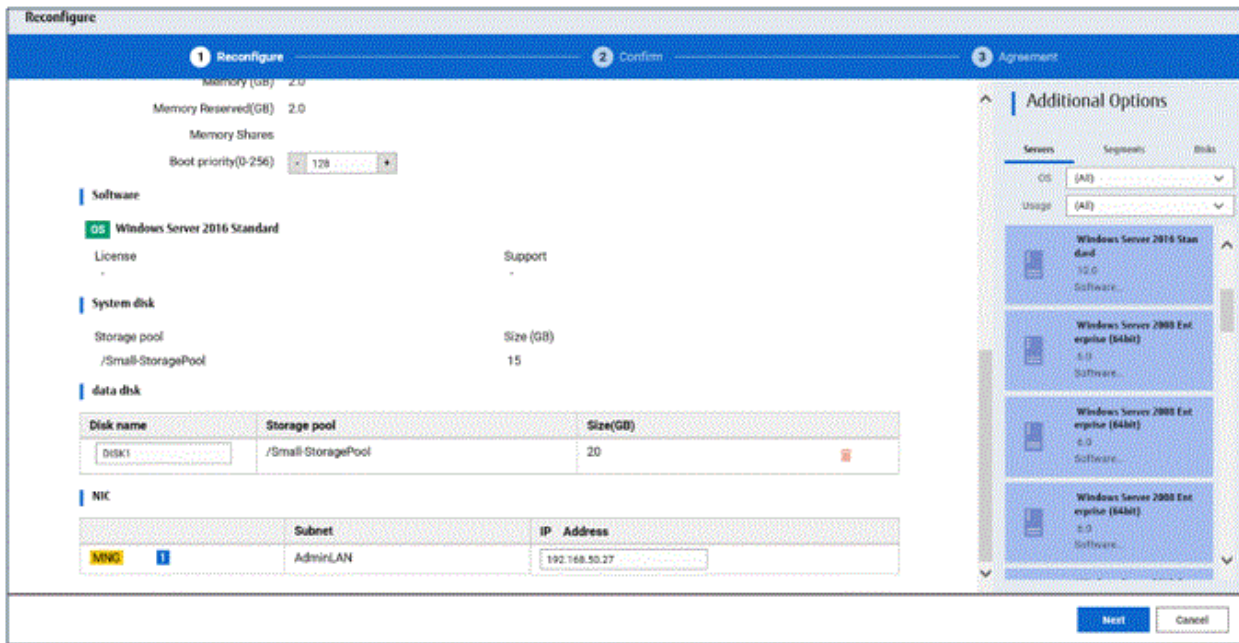


- This is possible only during L-Platform subscription. NIC groups cannot be made or cancelled after deployment.
- Two NICs can be grouped. Three or more NICs cannot be grouped.
- In estimated charges, grouped NICs are handled as if each NIC in the group exists.

5.3.13.6 Edit a Disk (for a Virtual Server)

Selecting a virtual server to which a disk has been added displays a list of virtual servers and disks, so you can select a disk.

The following window shows the [Reconfigure] window used to subscribe to an L-Platform.



Item name	Description
Disk name	<p>Sets the name of a disk name in the L-Platform template. For a disk added using [Additional Options], "DISK + (the number of disks + 1)" is automatically set. To rename a disk, the new name must be no more than 85 characters long and not include the following characters:</p> <p style="text-align: center;"><, >, &, ', " and control characters</p> <p>A pre-existing name cannot be specified.</p>
Storage pool	From the drop-down menu, select the deployment destination resource pool.
Virtual Storage	From the drop-down menu, select the virtual storage that is the deployment destination. Select from the resources registered in the pool selected in the Storage Pool section.

Item name	Description
	"---- Select ----" is displayed if the storage resource specified before reconfiguration does not exist. It can be selected when the server virtualization software is VMware.
Size	Specify the disk capacity of the virtual server in GB. <ul style="list-style-type: none"> - When reconfiguring during subscription Either the maximum disk size of a storage pool or the maximum data disk size of image information, whichever is the smaller, can be specified. - When reconfiguring (a previously undeployed disk) after deployment Either the maximum disk size of the storage pool or the maximum data disk size of the image information, whichever is the smaller, can be specified. - When reconfiguring (a deployed disk) after deployment The minimum allowed value is the current data disk capacity. The maximum allowed value is the lesser of the maximum disk capacity of storage pool or the maximum data disk capacity of image information. The value can be changed only if the server virtualization software is VMware or Hyper-V.

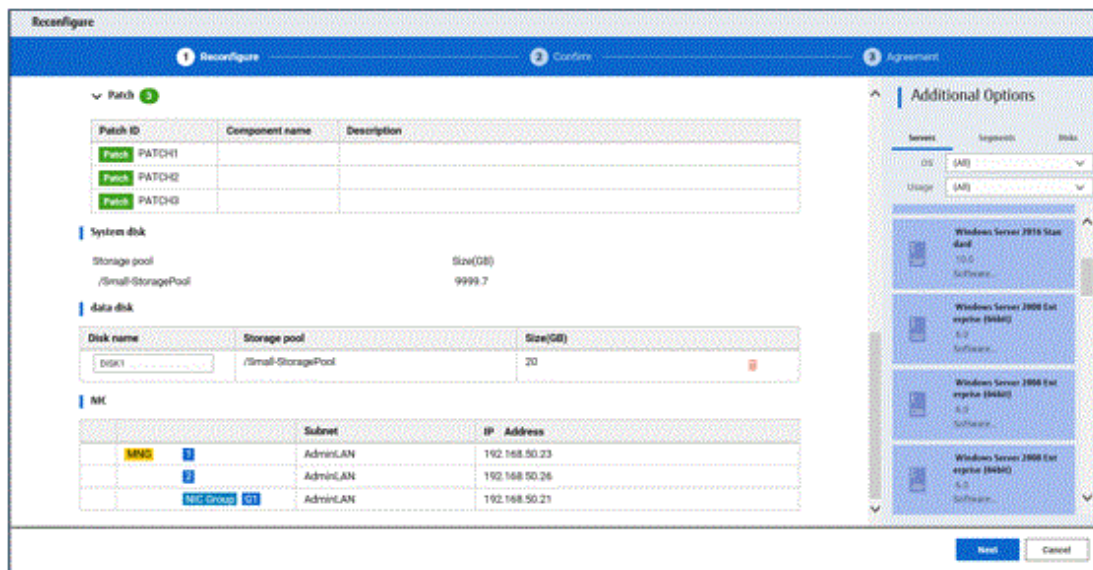
Note

- If the server virtualization software is Hyper-V, the maximum number of disks after addition is four, including the system disk.
- Existing disks cannot be added or deleted if the server virtualization software is Citrix XenServer or OVM for x86.
- If the server virtualization software is OVM for SPARC, only existing disks can be added or deleted, but it is not possible to add to a server existing disks already attached to another server.
- When the server virtualization software is Solaris Zones and the OS of the virtual server is Solaris 10, attaching and detaching of disks is not possible.
- When the server virtualization software is Solaris Zones and the OS of the virtual server is Solaris 11, detachment of already deployed disks is not possible.
- Disks cannot be added to or deleted from images that include data disks.
- Disk capacity cannot be expanded for data disks included in images.
- If [Automatic] is selected for the storage pool, estimated charges will be calculated based on a disk unit price of 0 Japanese Yen. Note that estimated charges may differ to the actual charges because usage charges are calculated according to the unit price of the storage pool that creates the disk after subscription or reconfiguration is complete.
- Data disk capacity cannot be expanded in the following cases:
 - When snapshots exist on the server
 - When disks not managed by ROR, such as RDM (Raw Device Mapping), are connected to the server

5.3.13.7 Edit a Disk (for a Physical Server)

Selecting a physical server to which a disk has been added displays a list of physical servers and disks, so you can select a disk.

The following window shows the [Reconfigure] window used to subscribe to a service.



Item name	Description
Disk name	<p>Sets the name of a disk name in the L-Platform template.</p> <p>For a disk added using [Additional Options], "DISK + (the number of disks + 1)" is automatically set.</p> <p>To rename a disk, the new name must be no more than 85 characters long and not include the following characters:</p> <p style="text-align: center;"><, >, &, ', " and control characters</p> <p>A pre-existing name cannot be specified.</p>
Storage pool	<p>From the drop-down menu, select the deployment destination resource pool. If an existing disk is selected, modification is not possible.</p>
Size	<p>Specify the disk capacity of the virtual server in GB.</p> <p>Specify the lesser of the two values: Enter either the maximum value entered for image information or enter the maximum value of the storage pool, free space size of storages with the most free space size.</p> <p>A value outside the range cannot be set.</p>

[Server] tab

"Physical server" and "Virtual server" can be selected from [Type], enabling only servers of the selected type to be displayed.

5.3.13.8 Server load balancer

The parameters and rulesets set in the SLB are displayed when an SLB is selected.

- [SLB]

Item name	Description
Deployment ruleset	The names of the ruleset set in the server load balancer are displayed. The ruleset names cannot be modified.
Description	Descriptions of the ruleset for deploying server load balancer are displayed.

Click the [Parameter details] button to confirm the values of the parameters set in rulesets.

If a server load balancer is defined in an L-Platform template, the default rulesets and parameter values are those specified in the L-Platform template.

- [SLB Parameter details] window

A list of parameters defined in the ruleset is displayed in the [SLB Parameter details] window. Click the [SLB Parameter details] button to display the [Parameter details] window.

Item name	Description
Selected ruleset	The names of the ruleset for deploying server load balancer are displayed.
Description	Descriptions of the ruleset for deploying server load balancer are displayed.

- [SLB] tab

Parameters that are unrelated to the server are displayed:

Item name	Description
Parameter	Displays the parameter labels.
Description	Displays the parameter descriptions.
Value	The value to be set for the parameter is displayed.
Description of the selected parameter	Displays the description of the parameter that is moused over.

- [Server] tab

Parameters that are related to the server are displayed:

Item name	Description
Server	The names of the servers where the parameters are enabled are displayed. "-" is displayed for parameters unrelated to the server.
Parameter	Displays the parameter labels.
Description	Displays the parameter descriptions.
Value	The value to be set for the parameter is displayed.
Description of the selected parameter	Displays the description of the parameter that is moused over.

5.4 Display Event Logs

Event logs of the errors that occurred while using the functions of the [L-Platforms] tab can be displayed on the [Event Log] window.

Follow the steps below to display event logs:

1. Select [Event Log] in the menu.

A list of event logs will be displayed.

The [Event log] window displays up to 100 events and each event is displayed until the same date of the next month from the date it occurred. If the same date does not exist in the next month, the event is displayed until the last date of the next month.

Refer to "Chapter 19 Messages Starting with VSYS" in "Messages" for information on the messages displayed in the event log.



Point

CSV output

When the [Save as CSV] button located at the bottom left of the window is clicked, a browser standard file download dialog is displayed where the event logs can be saved as a CSV file.

The default CSV file name format is shown below. This file name can be modified as necessary.

```
event_log_<date> + .csv
```

5.5 Select Forward Destination of Application Process

When the application process is enabled, the forward destination of the application process must be selected to use the following functions:

- L-Platform subscription
- L-Platform reconfiguration
- Cancel L-Platform

Point

The application process is set by the infrastructure administrator.

Note

If the pop-up blocker is enabled and the URL of the ROR console is not registered with the 'Address of web site to allow' list, the [Forward screen] window will not be displayed.

Follow the steps below to select the forward destination of the application process:

1. The [Forward screen] window is displayed when an L-Platform usage application is made, an L-Platform configuration is modified, or an L-Platform is released.

Item name	Description
Forward destination	Select an approver who is the forward destination of the application process. If the process has been set to require no approval, the forward destination will not be displayed.
Reason for application	Specify the reason for application using 100 or less characters.

2. Specify the item and click [Forward] button.

A message notifying the forward result will be displayed.

When forwarding is successful, the subscriber will receive an application acceptance email.

3. Confirm the message, click the [Close] button, and close the [Forward screen] window.

Note

If an error message is displayed on the [Forward screen], notify the infrastructure administrator of the contents displayed on the window. After closing the [Forward screen], close the [L-Platforms] tab also.

If an error message is displayed on the forward screen when a service is subscribed to or modified, that subscription will be saved.

Point

Approving the application process

When an application process is forwarded, an email requesting an approval will be sent to the approver at the forward destination. An approval for the application must be obtained from the approver.

Refer to "[Chapter 6 Request](#)" for information on how to approve an application process.

If the process has not been approved, an email requesting an assessment will be sent to the infrastructure administrator.

Action when the mail is not sent

When the email is not sent to the subscriber or the approver, confirm whether the email address registered in the ROR console is correct. If it is correct, contact the system administrator to report the user ID and the process instance name for subscription.

When the assessment request email is not sent to the infrastructure administrator, contact the system administrator to report the user ID and the process instance name.

Check the application process status

The subscriber and the approver can check the status of application process.

Refer to "[Chapter 6 Request](#)" for information on how to check the status of application process.

5.6 How to Use the L-Platform

This section explains how to use the L-Platform after it is deployed.

Based on the information below, a deployed L-Platform can be accessed using the remote desktop function.

Item name	Value
IP address	<ol style="list-style-type: none"> 1. The IP address can be confirmed using the following procedures. 2. Select [Server] in the menu 3. Check IP address of the target server from the list displayed.
User ID	<p>[Windows] Administrator</p> <p>[Linux] root</p> <p>[Solaris] root</p> <p>- When using Solaris Zones as the server virtualization software and the OS of the target server is Solaris 11, log in using the administrator user name.</p>
Password	<p>The initial password can be confirmed using the following procedures:</p> <ol style="list-style-type: none"> 1. Select [Deployed] of [L-Platforms] in the menu. 2. Click the L-Platform name link of the target L-Platform. 3. Select the target virtual server from the list displayed and click the [Initial PWD] button. <p>When using Solaris Zones as the server virtualization software, and the OS of the target server is Solaris 11 and the management user name is something other than that of the root account, both the initial password and the Root role password are displayed.</p>

 **Note**

- The initial password is already set up after the L-Platform is deployed. Be sure to change the password when the L-Platform starts to operate.
- If the server virtualization software is Solaris Zone and the administrator user name is "root", the infrastructure administrator needs to configure deployed servers to enable direct root ssh login after deployment of a tenant user. When server deployment is complete, request the tenant administrator to enable direct root ssh login to the guest OS.
When the administrator user name is something other than "root", the above configuration is not necessary.

5.7 Server Load Balancer (SLB) Operation Procedure

This section describes the procedure for using an L-Platform template that includes a server load balancer (SLB).

1. Check the following two points before subscribing to an L-Platform template that includes a server load balancer. Check with the tenant administrator if there are points that need to be clarified.
 - Preparations to set the server load balancer are complete
SLB settings are required to use the server load balancer. Check the following:
 - a. You understand the meaning of the parameters set when configuring the server load balancer
 - b. You know the values such as the IP address that need to be set in (a)
 - Proper preparations have been made for server load balancer operations
Server load balancer operations are performed by configuring rulesets and the parameters in the rulesets. Check the following:
 - a. You understand the rulesets for the operation of the server load balancer
 - b. You understand the meaning of the parameters set in (a)
 - c. You know the values that need to be set in (b)
2. "[Subscribe to an L-Platform](#)" including a server load balancer.
3. Refer to "[Server Load Balancer \(SLB\) Settings](#)" and setup the server load balancer after the L-Platform is deployed
4. Refer to "[L-Platform Reconfiguration](#)" and perform the procedures described to change the configuration of an L-Platform.
5. If necessary, use the information obtained in 1 to perform "[Server Load Balancer \(SLB\) Operations](#)". After executing the operation, check the "[Server Load Balancer \(SLB\) Operation Logs](#)"
6. Refer to "[Cancel an L-Platform](#)" and perform the procedures described to cancel an L-Platform when it becomes unnecessary.

Chapter 6 Request

This chapter explains how to operate the application list.



- Application processes are determined by the Infrastructure Administrator and set by the System Administrator. The application list can be used only if an application process is set.
- If Internet Explorer enhanced security (IE ESC) is enabled, the [X] button on popup windows does not operate correctly. Refer to the following website for information on how to disable Internet Explorer enhanced security:
<http://www.microsoft.com>

6.1 Checking an Application Status

The application status and past application results can be checked for the following applications:

- Subscribe L-Platform
- L-Platform reconfiguration
- Cancel L-Platform

Perform the following steps to check the status of an application process:

1. Select [Requests] from the ROR console.
2. Select either [My Tasks] or [My Completed Tasks] from the [Task Filters] drop-down list on the My Task window.
 - To check the status of applications in progress
Select [My Tasks] from the [Task Filters] drop-down list on the My Task window. A list of tasks with the status [Active] will be displayed.
 - To check past application results
Select [My Completed Tasks] from the [Task Filters] drop-down list on the My Task window. A list of tasks with the status [Completed] will be displayed.

The priority level of a task can be specified on the [Summary] tab under [My Tasks] using numerals from 0 to 2147483647. The default value is 8.

The higher the number of a task, the higher its priority level. Setting the priority level of tasks also enables them to be sorted in order of priority in task lists.

3. Select the process instance task to be checked and click on the [Details] tab.

Select the tasks with the following activity names:

- When checking the status of applications in progress
 - Cancel
 - When checking past application results
 - Apply or cancel
4. Select the [Status] tab on the [Form] panel.

A list of either application statuses or past application results will be displayed in chronological order.

Application results are displayed as shown in the image below. It indicates that approval was given to an application which was then dismissed upon assessment.

The screenshot shows a web application interface for a task titled "Task: Application [L-PlatformSubscriptio...". It has tabs for "Summary" and "Details", and a "Jump To" dropdown menu. Below the tabs is a "Form" section with sub-tabs for "Application" and "Status". The "Status" tab is active, displaying a table with the following data:

Activity Name	Status	Date	Responsible	Comment
Application	Accepted	2011-12-18 21:18:02	taro fujitsu	Please approve the L-Platform01
Approve	Approved	2011-12-18 22:08:01	hanako fujitsu	Please assess the L-Platform01
Assess	Dismissed	2011-12-18 22:25:59	manage01	refused the L-Platform01
Pending	--			
Cancel	--			

Item	Description	
Activity Name	The task activities will be displayed. Application, Approve, Assess, Pending or Cancel will be displayed. Approve will only be displayed when the application process is set to 'ApproverOnly', while Assess will only be displayed when the application process is set to 'JudgeOnly'.	
Status	Application	Accepted
	Approve	One of the following responses will be displayed: <ul style="list-style-type: none"> - Approval waiting - Approved - Approved (Error) - Rejected - _ (*1)
	Assess	One of the following responses will be displayed: <ul style="list-style-type: none"> - Approval waiting - Accepted - Accepted (Error) - Dismissed - _ (*1) - Blank (*2)
	Pending	One of the following responses will be displayed: <ul style="list-style-type: none"> - Pending - Cancel - _ (*1) - Blank (*2)
	Cancel	One of the following responses will be displayed: <ul style="list-style-type: none"> - Cancel

Item	Description
	- _ (*1) - Blank (*2)
Date	The date and time of execution will be output in the following format: YYYY-MM-DD HH:MM:SS
Responsible	Displays the executor.
Comment	Displays any comments that were input at the time of Application, Approve, Assess or Pending.

*1: Displayed when the process was not executed.

*2: Displayed when the process has not been executed.

The following illustrates an example of the application status confirmation window:

- When the application process is set to 'ApproverOnly' and 'JudgeOnly'

Indicates that the application has been accepted and the task is complete.

Activity Name	Status	Date	Responsible	Comment
Application	Accepted	2011-12-19 02:41:59	taro fujitsu	Please approve the L-Platform05
Approve	Approved	2011-12-19 02:44:17	hanako fujitsu	Approved the L-Platform05. Please assess this.
Assess	Accepted	2011-12-19 02:45:47	manage01	Assessed the L-Platform05.
Pending	-			
Cancel	-			

- When the application process is set to 'ApproverOnly'

Indicates that the application is awaiting approval.

Activity Name	Status	Date	Responsible	Comment
Application	Accepted	2011-12-19 02:13:46	taro fujitsu	Please approve the L-Platform04
Approve	Approval waiting			
Pending				
Cancel				

- When the application process is set to 'JudgeOnly'

Indicates that an error has occurred with the application during acceptance of the assessment and the task has been reserved.

Activity Name	Status	Date	Responsible	Comment
Application	Accepted	2011-12-19 02:29:31	taro fujitsu	Please assess the L-Platform05
Assess	Accepted (Error)	2011-12-19 02:34:28	manage01	
Pending	Pending			
Cancel				

6.2 Cancelling an Application

Subscribers can cancel an application that they have issued.

A subscriber is a user who issued any of the following applications:

- Subscribe use L-Platform
- L-Platform reconfiguration
- Cancel L-Platform



.....
Refer to "[Appendix A Emails Sent during L-Platform Operations](#)" for information on the email sent when an application is canceled.
.....

Perform the following steps to cancel an application process:

1. From the ROR console, select [Requests] tab.
2. In the [Task Filters] drop-down list on the My Tasks window, select "My Tasks".
A list of tasks with the status Active is displayed.
In the [Priority] field in [My Tasks] under the [Summary] tab, give the tasks a priority using a number between 0 and 2147483647.
The default value is 8.
The higher the number of a task, the higher its priority level. Setting the priority level of tasks also enables them to be sorted in order of priority in task lists.
3. Select the task with the activity name "Cancel" on the process instance that you want to cancel, and then click the [Details] tab.

4. Select the [Application] tab on the [Form] panel.
Check the content of the application.

Task: Cancel [L-PlatformSubscription_73...]

Summary Details Jump To: [Select One]

Form

Application Status

Application type: L-PlatformSubscription
L-Platform name: L-Platform02

Details: **Tenant name: tenant01**

L-Platform Overview

Estimated price	\$ 105.50/month	* changed from \$ 108.50/month
License	Not included	
Support	Not included	
Description	TEMPLATE_2008	
Template name	TEMPLATE_2008	

▼ **Firewall** Firewall

Rule set	bonding	
Description	Ruleset Description Data	

▼ **Business** AAA

Segment type	DMZ	
Maximum number of NICs	1	

Subscriber name: taro fujitsu
Reason for application: Please approve the L-Platform02
Forward destination: hanako fujitsu

Back to top

Attachments

Add Attachment

There are no attachments in this task.

Back to top

Comments

Comment

Add Comment

Back to top

Make Choice

[0:Cancel]

Back to top

5. Click the [0: Cancel] button on the [Make Choice] panel.
The selected application process is cancelled.

Note

- If the [0: Cancel] button on the Make Choice panel is clicked without the [Details] tab being selected or without the [Status] tab on the [Details] tab being selected, the following message is displayed:

All the forms are not accessed in Details Tab. Do you want to continue?

To continue processing without checking the form, click the [OK] button. To check the form, take one of the following actions:

- Click the [Cancel] button, and then select the [Details] tab.
- Select the [Status] tab on the [Details] tab.

- When canceling applications and [Failed] is displayed as the result in the [Result Summary] window, contact the tenant administrator with the process instance name that failed and the error details and have them investigate the error and take action as necessary.

Details about the errors are displayed by clicking [Details] in the comments in the [Result Summary] window.

Chapter 7 Account

This chapter explains account operations.

7.1 Referencing User Information

The [Account] window can be used to display the user information of logged in users. Perform the following operations to view user information.

1. Select the [Account] link on the ROR console.
The [Account] window is displayed in a new window.

To modify your account, click [Modify account] button.
To change your password, click [Change password] button.

User ID	tenant_user01
Description	
Role	tenant_user

Personal Information

E-mail address	tenant_user01@example.com
Name	John N Smith
Company name or organization name	

Emergency Contact Information

E-mail address	
Telephone number	

Item	Explanation
User ID	Displays the user ID of the user
Description	Displays an explanation of the user
Role	Displays the user's role
Personal Information	
E-mail address	Displays the user's email address
Name	Displays the user's name
Company name or organization name	Displays the company name or organization name
Emergency Contact Information	
E-mail address	Displays the email address that receives emergency notifications
Telephone number	Displays the phone number for emergency contact
[Modify account] button	When clicked, displays the Modify account window used to change user information
[Change password] button	When clicked, displays the Change password window used to change a password



Note

When using Single Sign-On, with some directory services operation settings, the [Modify account] and [Change password] buttons may not be displayed. Directory services operation settings are set by the System Administrator.

2. Click the [Close] button to close the [Account] window.

7.2 Changing User Information

The [Modify account] window can be used to change the user information of a logged in user. Perform the following operations to change the user information:

1. Click the [Modify account] button on the [Account] window.
The [Modify account] window is displayed.
2. On the [Modify account] window, edit the values of the items to be changed.

Item	Explanation
User ID	Displays the user ID of the user. This cannot be changed.
Description	Enter an explanation of the user in up to 256 characters.
Role	Displays the user's role. This cannot be changed.
Personal Information	
E-mail address	Specify the user's email address in up to 64 characters. This specification is mandatory.
Name	Specify the user's name (first name, middle name and last name) using a maximum of 15 characters for each name. This specification is mandatory, but the middle name can be omitted.
Company name or organization name	Specify the company name or organization name in up to 30 characters.
Emergency Contact Information	
E-mail address	Specify the email address that receives emergency notifications, using up to 64 characters.
Telephone number	Specify the phone number to be used for emergency contact.

3. Click the [Confirm] button.
4. The window for confirming changed content is displayed. Check the values, and then click the [Modify] button.
To change the values again, click the [Back] button to return to the [Modify account] window.
5. Once the [Modify] button is clicked, the user information is updated and the modification completion window is displayed.
6. Click the [Back to Account] button to return to the [Account] window.

7.3 Changing Passwords

The [Change password] window can be used to change the password of a logged in user. Perform the following operations to change a password:

1. Click the [Change password] button on the [Account] window.
The [Change password] window is displayed.

Item	Explanation
Current password	Enter the current password. This specification is mandatory.

Item	Explanation
New password	Enter the new password. Specify between 8 and 64 characters using single-byte alphanumerics and symbols. The password is case-sensitive. This specification is mandatory.
New password (confirm)	Re-enter the new password for confirmation purposes. This input is mandatory.

2. Enter the current password and the new password, and then click the [Change] button. The password is changed and the modification completion window is displayed.
3. Click the [Back to Account] button to return to the [Account] window.

Appendix A Emails Sent during L-Platform Operations

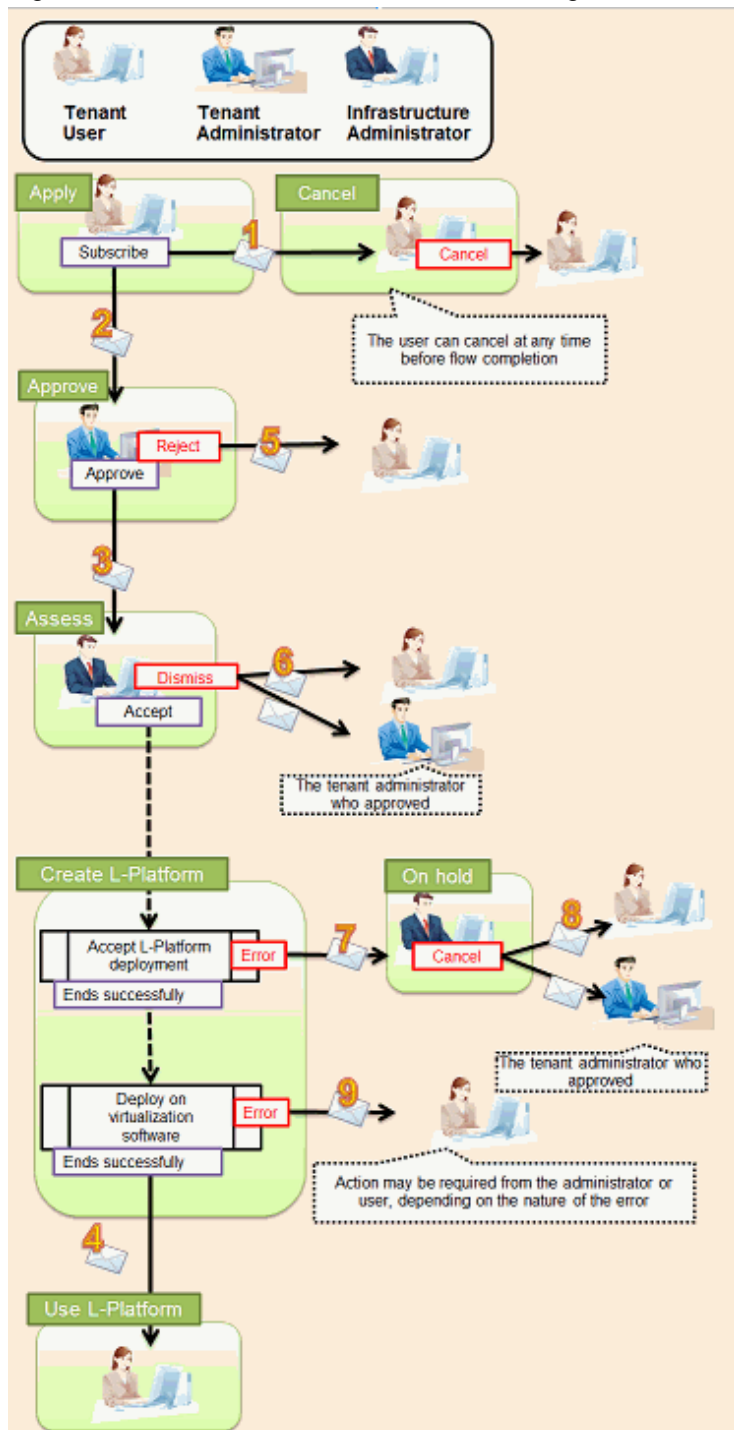
This appendix describes the flow and content of emails sent during L-Platform operations.

A.1 Emails Sent when Subscribing to an L-Platform

This section explains the flow and content of emails sent when subscribing to an L-Platform.

The following diagram shows the flow of emails sent when a subscription is made to use an L-Platform - the example shows the use of VMware as the virtualization software.

Figure A.1 Flow of emails sent when subscribing to an L-Platform



Below is the description of the content of emails sent and the action to take - the numbers refer to the email numbers in the diagram above.

1. Notification of application acceptance

This email is sent to the subscriber when the application to subscribe to the L-Platform is made.

Item	Description
Recipient	Subscriber
Timing	Sent when application to subscribe is made
Purpose	Notifies acceptance of subscription application
Email content	Process instance name, subscriber name, application type (L-Platform subscription), L-Platform name, reason for application, forward destination. Note that the forward destination is sent when configured to approve subscription applications.
Action	None After this notification is received, the subscription can be canceled.

2. Notification of approval request

This email is sent to the approver (tenant administrator) when the application to subscribe to the L-Platform is made.

Item	Description
Recipient	Approver (tenant administrator)
Timing	Sent when application is made Sent when configured to approve subscriptions at the time the application is made
Purpose	Request for approval of subscription
Email content	Process instance name, subscriber name, application type (L-Platform subscription), L-Platform name, reason for application, forward destination, approval URL
Action	Select [Request] using the approval URL in the email or the ROR console, and approve or reject the subscription.

3. Notification of assessment request

This email is sent to the assessor (infrastructure administrator) when the application to subscribe to the L-Platform is made.

Item	Description
Recipient	Assessor (infrastructure administrator)
Timing	Sent when application is made or when approval is given Sent when configured to assess applications at the time they are submitted
Purpose	Request for assessment of subscription
Email content	Process instance name, subscriber name, application type (L-Platform subscription), L-Platform name, reason for application, approver name, approval comment, assessment URL Note that the approver name and approval comments are sent when configured to approve applications at the time they are submitted
Action	Select [Request] using the approval URL in the email or the ROR console, and accept or dismiss the subscription.

4. Notification of completed creation

This email is sent to the subscriber when creation of the L-Platform is complete.

Item	Description
Recipient	Subscriber
Timing	Sent when L-Platform creation is complete

Item	Description
Purpose	Notifies that creation of L-Platform is complete
Email content	L-Platform name, L-Platform ID, server name, IP address, default password
Action	None

5. Notification of application rejection

This email is sent to the subscriber when a request for approval is rejected.

Item	Description
Recipient	Subscriber
Timing	Sent when the request for approval of the subscription is rejected
Purpose	Notifies of rejection of subscription
Email content	Process instance name, subscriber name, application type (L-Platform subscription), L-Platform name, reason for application, forward destination, approver name, approval comment
Action	None

6. Notification of application dismissal

This email is sent to the subscriber when an assessment is dismissed.

Item	Description
Recipient	Subscriber and approver (tenant administrator)
Timing	Sent when the subscription assessment is dismissed
Purpose	Notifies dismissal of subscription assessment
Email content	Process instance name, subscriber name, application type (L-Platform subscription), L-Platform name, reason for application, forward destination, approver name, approval comment, assessor name, assessor comment Note that the approver name and approval comments are sent when configured to approve applications at the time they are submitted
Action	None

7. Notification of application reservation

This email is sent to the infrastructure administrator when an error occurs during accepting L-Platform deployment.

Item	Description
Recipient	Infrastructure administrator
Timing	Sent when an error occurs during accepting L-Platform deployment
Purpose	Error notification
Email content	Process instance name, subscriber name, application type (L-Platform subscription), L-Platform name, reason for application, reservation URL
Action	Select [Request] using the reservation URL in the email or the ROR console. Check the details of the error and cancel.

8. Notification of application cancellation

This email is sent to the subscriber and approver (tenant administrator) if the subscription is canceled at Step 7.

Item	Description
Recipient	Subscriber and approver (tenant administrator)
Timing	Sent when canceled due to the subscription being reserved

Item	Description
Purpose	Notifies cancellation of the subscription
Email content	Process instance name, subscriber name, application type (L-Platform subscription), L-Platform name, reason for application, cancellation comment
Action	Subscribe again if required.

9. Error notification

This email is sent to the subscriber if an error occurs with deployment on virtualization software.

Item	Description
Recipient	Subscriber
Timing	Sent when an error occurs with deployment on virtualization software
Purpose	Notifies of errors
Email content	L-Platform name, L-Platform ID
Action	Request the infrastructure administrator to investigate.

The following example illustrates an actual email that is sent.

This is the content of the actual notification that is sent when an application is accepted. Other emails are also sent in the same format.



Example

```
Subject: [Important announcement] Notification of application acceptance

Dear Mr. Fujitsu,

The following application was accepted:

-----
[Content of application ]

Process instance name: L-Platform subscription (Task 1)
Subscriber name: Taro Fujitsu
Application type: L-Platform subscription
L-Platform name: L-Platform-20130701-01
Reason for application: For new system development
Forward destination: All administrators

Please refer to the above-mentioned process instance name from the application list of ROR console.
-----

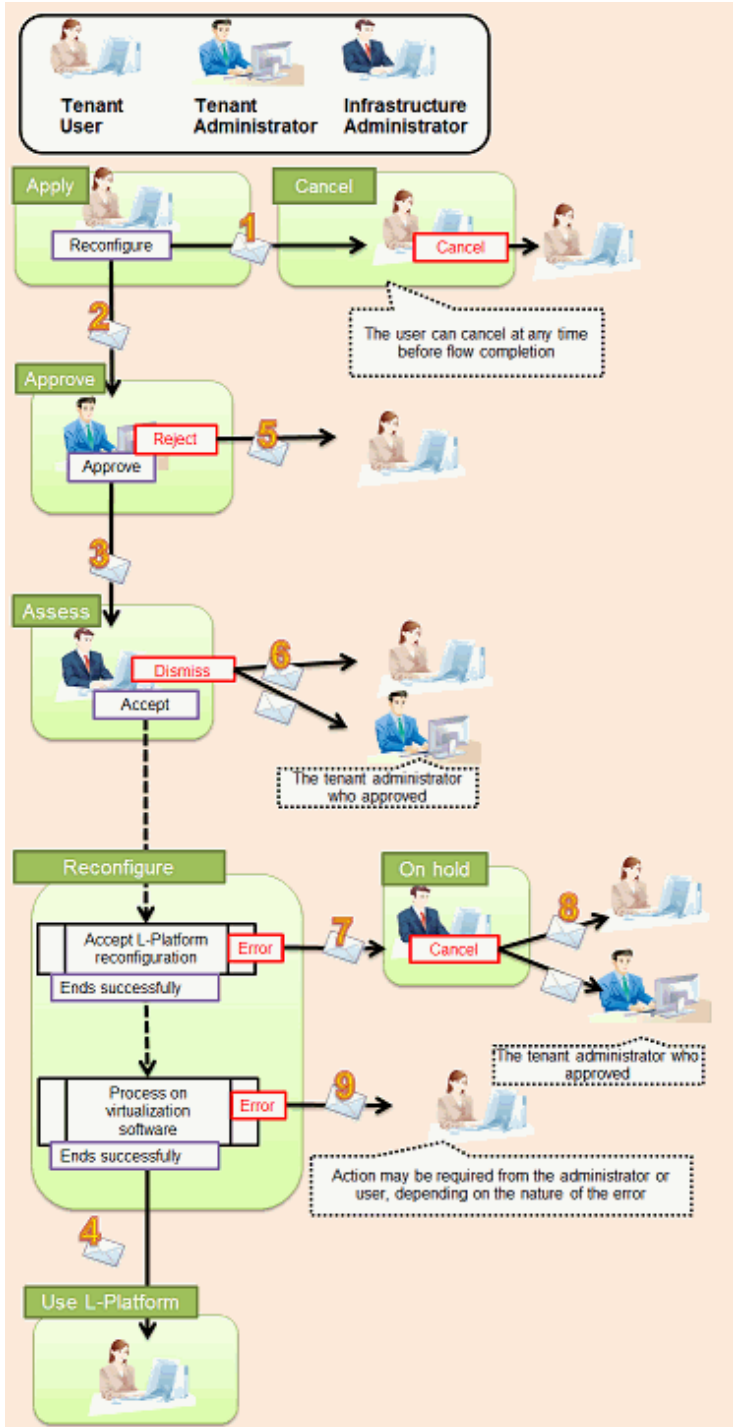
This E-mail is for information only.
Even if you send reply to this E-mail, you will not receive any reply.
```

A.2 Emails Sent when Reconfiguring an L-Platform

This section explains the flow and content of email messages sent when reconfiguring an L-Platform.

The following diagram shows the flow of emails sent when reconfiguring an L-Platform - the example shows the use of VMware as the virtualization software.

Figure A.2 Flow of emails sent when reconfiguring an L-Platform



Below is the description of the content of emails sent and the action to take - the numbers refer to the email numbers in the reconfiguration flow diagram.

1. Notification of application acceptance

This email is sent to the subscriber when applying to reconfigure an L-Platform.

Item	Description
Recipient	Subscriber
Timing	Sent when application to reconfigure is made
Purpose	Notification of reconfiguration application acceptance

Item	Description
Email content	Process instance name, subscriber name, application type (L-Platform reconfiguration), L-Platform name, reason for application, forward destination Note that the forward destination is sent when configured to approve reconfiguration applications.
Action	None After this notification is received, the reconfiguration can be canceled

2. Notification of approval request

This email is sent to the approver (tenant administrator) when the application to reconfigure the L-Platform is made.

Item	Description
Recipient	Approver (tenant administrator)
Timing	Sent when reconfiguration application is made Sent when configured to approve reconfiguration applications
Purpose	Request for approval of reconfiguration
Email content	Process instance name, subscriber name, application type (L-Platform reconfiguration), L-Platform name, reason for application, forward destination, approval URL
Action	Select [Request] using the approval URL in the email or the ROR console, and approve or reject the reconfiguration.

3. Notification of assessment request

This email is sent to the assessor (infrastructure administrator) when the application to reconfigure the L-Platform is made.

Item	Description
Recipient	Assessor (infrastructure administrator)
Timing	Sent when reconfiguration application is made Sent when configured to assess reconfiguration at the time the application is made
Purpose	Request for assessment of reconfiguration
Email content	Process instance name, subscriber name, application type (L-Platform reconfiguration), L-Platform name, reason for application, approver name, approval comment, assessment URL Note that the approver name and approval comments are sent when configured to approve reconfiguration applications
Action	Select [Request] using the assessment URL in the email or the ROR console, and accept or dismiss the reconfiguration.

4. Notification of completed reconfiguration

This email is sent to the subscriber when reconfiguration of the L-Platform is complete.

Item	Description
Recipient	Subscriber
Timing	Sent when reconfiguration of the L-Platform is complete
Purpose	Notifies that reconfiguration of the L-Platform is complete
Email content	L-Platform name, L-Platform ID
Action	None

5. Notification of application rejection

This email is sent to the subscriber when a request for approval is rejected.

Item	Description
Recipient	Subscriber
Timing	Sent when the request for approval of the reconfiguration is rejected
Purpose	Notification of reconfiguration application rejection
Email content	Process instance name, subscriber name, application type (L-Platform reconfiguration), L-Platform name, reason for application, forward destination, approver name, approval comment
Action	None

6. Notification of application dismissal

This email is sent to the subscriber when an assessment is dismissed.

Item	Description
Recipient	Subscriber and approver (tenant administrator)
Timing	Sent when the reconfiguration assessment is dismissed
Purpose	Notifies dismissal of reconfiguration application
Email content	Process instance name, subscriber name, application type (L-Platform reconfiguration), L-Platform name, reason for application, forward destination, approver name, approval comment, assessor name, assessor comment Note that the approver name and approval comments are sent when configured to approve reconfiguration applications
Action	None

7. Notification of application reservation

This email is sent to the infrastructure administrator when an error occurs during accepting L-Platform update.

Item	Description
Recipient	Infrastructure administrator
Timing	Sent when an error occurs during accepting L-Platform update
Purpose	Error notification
Email content	Process instance name, subscriber name, application type (L-Platform reconfiguration), L-Platform name, reason for application, reservation URL.
Action	Select [Request] using the reservation URL in the email or the ROR console. Check the details of the error and cancel the application.

8. Notification of application cancellation

This email is sent to the subscriber and approver (tenant administrator) if the reconfiguration application is canceled at Step 7.

Item	Description
Recipient	Subscriber and approver (tenant administrator)
Timing	Sent when canceled due to the reconfiguration being reserved
Purpose	Notifies cancellation of the reconfiguration
Email content	Process instance name, subscriber name, application type (L-Platform reconfiguration), L-Platform name, reason for application, cancellation comment
Action	Reconfigure again if required.

9. Error notification

This email is sent to the subscriber if an error occurs with processing on virtualization software.

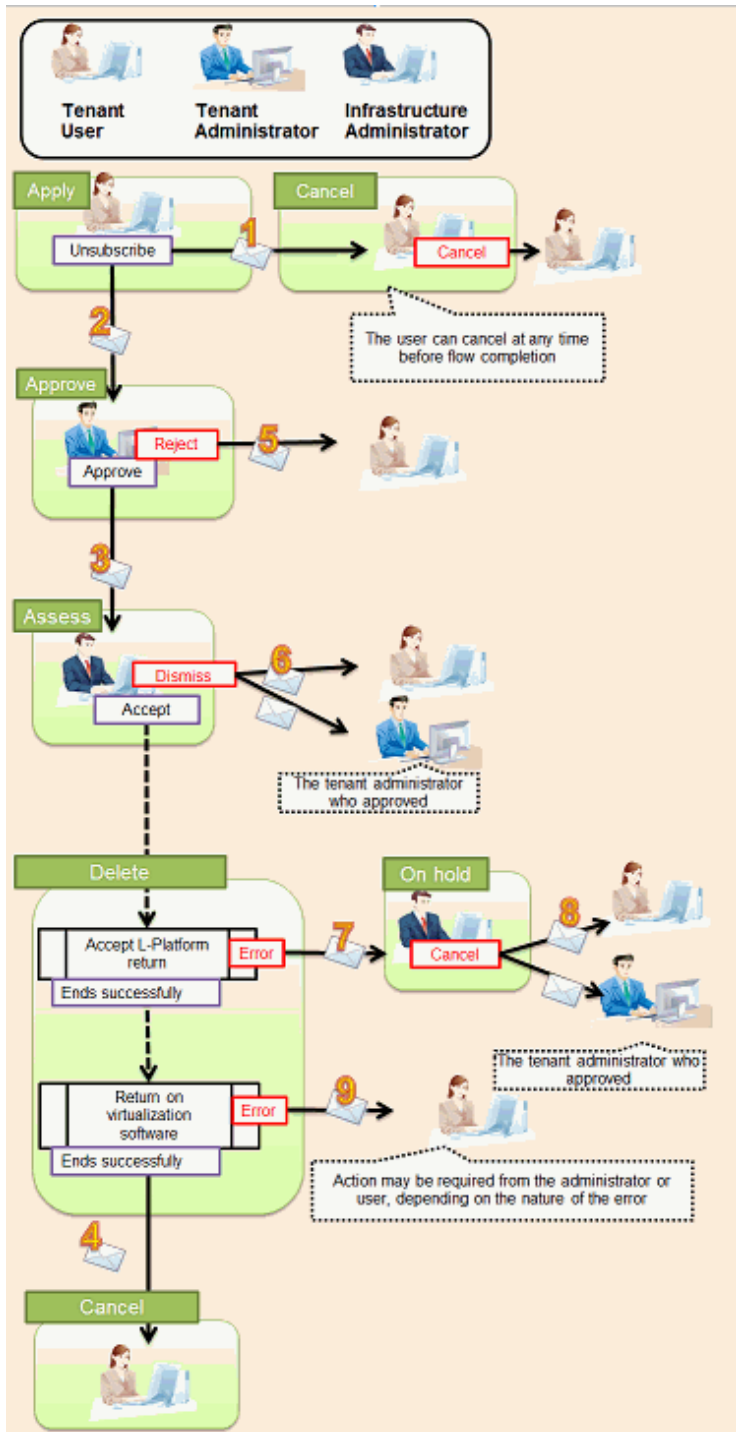
Item	Description
Recipient	Subscriber
Timing	Sent when an error occurs with processing on virtualization software
Purpose	Notifies of errors
Email content	L-Platform name, L-Platform ID
Action	Request the infrastructure administrator to investigate.

A.3 Emails Sent when Canceling an L-Platform

This section describes the flow and content of email messages sent when canceling an L-Platform.

The following diagram shows the flow of emails sent when canceling an L-Platform - the example shows the use of VMware as the virtualization software.

Figure A.3 Flow of emails sent when canceling an L-Platform



Below is the description of the content of emails sent and the action to take - the numbers refer to the email numbers in the diagram above.

1. Notification of application acceptance

This email is sent to the subscriber when applying to cancel an L-Platform.

Item	Description
Recipient	Subscriber
Timing	Sent when canceling
Purpose	Notification of cancellation application acceptance

Item	Description
Email content	Process instance name, subscriber name, application type (L-Platform cancellation), L-Platform name, reason for application, forward destination Note that the forward destination is sent when configured to approve cancellation applications.
Action	None After this notification is received, the cancellation can be canceled

2. Notification of approval request

This email is sent to the approver (tenant administrator) when the application to cancel the L-Platform is made.

Item	Description
Recipient	Approver (tenant administrator)
Timing	Sent when cancellation application is made Sent when configured to approve cancellation at the time the cancellation application is made
Purpose	Request for approval of cancellation
Email content	Process instance name, subscriber name, application type (L-Platform cancellation), L-Platform name, reason for application, forward destination, approval URL
Action	Select Request using the approval URL in the email or the ROR console, and approve or reject the cancellation.

3. Notification of assessment request

This email is sent to the assessor (infrastructure administrator) when the application to cancel the L-Platform is made.

Item	Description
Recipient	Assessor (infrastructure administrator)
Timing	Sent when cancellation application is made Sent when configured to assess cancellation at the time the application is made
Purpose	Request for approval of cancellation
Email content	Process instance name, subscriber name, application type (L-Platform cancellation), L-Platform name, reason for application, forward destination, approval URL Note that the approver name and approval comments are sent when configured to approve cancellation applications.
Action	Select [Request] using the approval URL in the email or the ROR console, and approve or reject the cancellation.

4. Notification of completed cancellation

This email is sent to the subscriber when cancellation of the L-Platform is complete.

Item	Description
Recipient	Subscriber
Timing	Sent when L-Platform cancellation is complete
Purpose	Notifies that cancellation of L-Platform is complete
Email content	L-Platform name, L-Platform ID
Action	None

5. Notification of application rejection

This email is sent to the subscriber when a request for approval is rejected.

Item	Description
Recipient	Subscriber
Timing	Sent when the request for approval of the cancellation is rejected
Purpose	Notifies of rejection of cancellation
Email content	Process instance name, subscriber name, application type (L-Platform cancellation), L-Platform name, reason for application, forward destination, approver name, approval comment
Action	None

6. Notification of application dismissal

This email is sent to the subscriber when an assessment is dismissed.

Item	Description
Recipient	Subscriber and approver (tenant administrator)
Timing	Sent when the cancellation assessment is dismissed
Purpose	Notifies dismissal of cancellation assessment
Email content	Process instance name, subscriber name, application type (L-Platform cancellation), L-Platform name, reason for application, forward destination, approver name, approval comment, assessor name, assessor comment Note that the approver name and approval comments are sent when configured to approve cancellation applications.
Action	None

7. Notification of application reservation

This email is sent to the infrastructure administrator when an error occurs during accepting L-Platform return.

Item	Description
Recipient	Infrastructure administrator
Timing	Sent when an error occurs during accepting L-Platform return
Purpose	Error notification
Email content	Process instance name, subscriber name, application type (L-Platform cancel), L-Platform name, reason for application, reservation URL.
Action	Select [Request] using the reservation URL in the email or the ROR console. Check the details of the error and cancel the application.

8. Notification of application cancellation

This email is sent to the subscriber and approver (tenant administrator) if the cancellation application is canceled at Step 7.

Item	Description
Recipient	Subscriber and approver (tenant administrator)
Timing	Sent when canceled due to the cancellation application being reserved
Purpose	Notifies cancellation of the cancellation application
Email content	Process instance name, subscriber name, application type (L-Platform cancel), L-Platform name, reason for application, cancellation comment
Action	Apply the cancellation again if required.

9. Error notification

This email is sent to the subscriber if an error occurs while returning an L-Platform on virtualization software.

Item	Description
Recipient	Subscriber
Timing	Sent when an error occurs while returning an L-Platform on virtualization software
Purpose	Notifies of errors
Email content	L-Platform name, L-Platform ID
Action	Request the infrastructure administrator to investigate.