Guide for using the Web function JobCenter R15.1

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Introduction

This manual describes the basic functions and operating methods of JobCenter. Much of its content is devoted to presenting operating procedures that use the GUI displays that JobCenter offers to the user. Note that the sample screens shown herein may differ from the actual screens.

Note that this document is subject to change without prior notice.

1. Legend

The legend used in this manual is explained below.

	Information that you should pay attention to.
	Supplementary information about a description in the text.
ģ	Supplementary tip about a description in the text.
Note	Explanation of a note that appears in the text.
_	The underlined parts in the descriptions for the installation window for UNIX mean inputs from a keyboard.

2. Related manuals

The following are manuals related to JobCenter. They are contained in JobCenter Media.

For information on the latest manuals, refer to the download page of the JobCenter product site.

http://www.nec.co.jp/middle/WebSAM/products/JobCenter/download.html (Japanese only)

Document title	Overview
JobCenter Installation Guide	Describes how to newly install JobCenter or upgrade it.
JobCenter Quick Start Guide (Japanese only)	Describes the basic functions of JobCenter, as well as a complete set of operations, for first-time users of JobCenter.
JobCenter Basic Guide	Describes the basic functions of JobCenter, as well as how to operate it.
JobCenter Environment Guide	Describes various setting methods on the construction of environments required for using JobCenter, transferring of environment, linkage with other products, etc.
JobCenter Guide for using NQS function (Japanese only)	Describes methods of using NQS functions, the basis of JobCenter, from JobCenter.
JobCenter Guide for using operation logs and execution logs	Describes the functions for acquiring operation logs and job network execution logs from JobCenter CL/Win, as well as how to set the functions.
JobCenter Command Reference (Japanese only)	Describes JobCenter commands for performing job network entry and execution state referencing, etc. from the command line like a GUI.
JobCenter Guide for using Cluster function	Describes linkage methods for operating JobCenter in the cluster system.
JobCenter Guide for using Helper function (Japanese only)	Describes the following three functions that enable efficient operation of JobCenter using Excel: JobCenter Definition Helper (definition information maintenance), JobCenter Report Helper (business report creation), and JobCenter Analysis Helper (performance analysis).
JobCenter Guide for using SAP function (Japanese only)	Describes how to link JobCenter and SAP.
JobCenter Guide for using WebOTX Batch Server linkage function (Japanese only)	Describes how to link JobCenter and WebOTX Batch Server.
JobCenter Guide for Using the Web Function	Describes JobCenter CL/Web that is a function to monitor jobs by using a web browser.
JobCenter Guide for using the text definition function (Japanese only)	Describes how to define a job network, schedule, calendar, custom job template by using a text file.
JobCenter Guide for upgrading the version and applying the patches in a cluster environment (Japanese only)	Describes how to upgrade the version of JobCenter and apply the patches in a cluster environment.
JobCenter R15.1 Release Notes	Provides the information specific to JobCenter R15.1.

3. Revision history

[Edition	Date of revision	Item	Format	Contents of revision
	1	September 7, 2017	New	-	First Edition

Table of Contents

Introduction	
1. Legend	
2. Related manuals	
3. Revision history	
1. Overview	
1.1. Function Overview	
1.2. Introduction Effects	
1.3. About the License	
1.4. Operating Environment	7
1.5. Glossary	
1.6. Flow of the Steps for Using JobCenter CL/Web	9
2. Installing and Uninstalling the CL/Web Server	. 10
2.1. Installation	
2.1.1. Before Installation	11
2.1.2. Installing LicenseManager	11
2.1.3. Installing the CL/Web Server	11
2.2. Uninstallation	. 15
2.2.1. Uninstalling LicenseManager	15
2.2.2. Uninstalling the CL/Web Server	15
2.3. Upgrade	
2.3.1. Upgrading CL/Web Server for UNIX	
2.3.2. Upgrading CL/Web Server for Windows	16
2.4. Case When Re-installing is Needed	
2.4.1. Re-installing the CL/Web Server for UNIX	
2.4.2. Re-installing the CL/Web Server for Windows	. 18
2.5. Checking the Version	20
3. Environment Setup	
3.1. CL/Web Server	. 22
3.1.1. CL/Web Configuration File (clweb.conf)	
3.1.2. Setting the Port to Use	22
3.1.3. Setting SSL Signature Certificate	
3.1.4. Setting Subdirectory of URL	
3.2. Web Browser	
3.2.1. Setting Active Scripting	
3.2.2. Setting Font Download	
3.2.3. Setting TLS (SSL)	
3.2.4. Enabling Cookies	
3.2.5. Case When Safari Running on iOS Is Used	27
3.3. Server Environment Migration	
3.3.1. Changing the IP Address	
3.3.2. Changing the Host Name	
4. Starting and Stopping the CL/Web Server	
4.1. Starting the CL/Web Server	
4.1.1. Starting the CL/Web Server for UNIX	
4.1.2. Starting the CL/Web Server for Windows	
4.2. Stopping the CL/Web Server	
4.2.1. Stopping the CL/Web Server for UNIX	
4.2.2. Stopping the CL/Web Server for Windows	
5. Basic Operations	
5.1. Basic CL/Web Operations	
5.1.1. Name and Outline of Each Part of the CL/Web Window	
5.1.2. Search Function	
5.1.3. Sort Function	
5.1.4. Display Table Column Display Function	
	- '

	5.1.5. Setting the Tab Display Order in the Navigation Bar	. 43
	5.1.6. My Page Function	44
	Accessing the CL/Web Server Using a Browser	
5.3.	Logging In or Out	46
	5.3.1. Logging In	
	5.3.2. Logging Out	
5.4.	Job Network-related Operations	49
	5.4.1. Viewing a Group	49
	5.4.2. Viewing a Job Network	
	5.4.3. Submitting a Job Network Immediately	. 50
5.5.	Tracker-related Operations	55
	5.5.1. Viewing Trackers	55
	5.5.2. Operating Trackers	. 62
	5.5.3. Reloading the Tracker Window Automatically	70
	5.5.4. Displaying Trackers in a Gantt Chart	
56	Schedule-related Operations	
5101	5.6.1. Viewing a List of Schedules	76
	5.6.2. Viewing the Schedule Definition	77
	5.6.3. Viewing the Linking JNW	
	5.6.4. Enabling or Disabling the Schedule	70
57	Trigger-related Operations	. / 9 QZ
J./.		
	5.7.1. Viewing a List of Triggers	
	5.7.2. Viewing the Trigger Definition	. 83
	5.7.3. Viewing the Linking JNW	
F 0	5.7.4. Enabling or Disabling the Trigger	
5.8.	Machine-related Operations	87
	5.8.1. Viewing a List of Machines	
	5.8.2. Viewing a List of Queues	
	5.8.3. Operating a Queue	89
	5.8.4. Viewing a List of Users	. 91
5.9.	Calendar-related Operations	93
	5.9.1. Viewing a List of Calendars	93
	5.9.2. Viewing the Calendar Definition	. 93
5.10	D. My Page Function	96
	5.10.1. Function Overview	
	5.10.2. Using My Page	97
	5.10.3. Common Panel Operations	
	5.10.4. Details of Panels	106
	5.10.5. Setting My Page (JobCenter Administrator)	123
6. Detail	s of Other Functions	127
6.1.	Details of the Mail Transmission Function	128
	6.1.1. Configuring the SMTP Server	128
	6.1.2. Setting Character Code for Email	129
	6.1.3. Mail Transmission Function	129
	6.1.4. Setting Email Template	132
6.2.	Macro Functions	
	6.2.1. Macro Functions (MG/SV)	
	6.2.2. Event Linkage	
6.3.	Other User Monitoring Function	
	6.3.1. Function Overview	
	6.3.2. Procedure for Switching to Other Users	
6.4	WebAPI Function	
0.11	6.4.1. Function Overview	
	6.4.2. Overview of WebAPI Introduction	142
	6.4.3. Flow of WebAPI Utilization	
	6.4.4. WebAPI Function Details	

6.5. Amazon SNS Linkage Function	179
6.5.1. Function Overview	179
6.5.2. Flow of Using the Amazon SNS Linkage Function	
7. Information Collection at Failure Occurrence	183
8. Notes and Restrictions	184
8.1. Notes	185
8.2. Restrictions	186
9. Error Message List	
9.1. CL/Web Server Error Messages	188
9.2. Web Browser Error Messages	

List of Tables

1.1. CL/Web function list	2
2.1. Fixed disk size required to install CL/Web Server	
3.1. Values to be set for the clweb.conf parameters (for specifying port number)	
3.2. Values to be set for the clweb.conf parameter (for specifying URL subdirectory)	. 24
5.1. Description of the status bar functions	
5.2. Parameter setting values in clweb.conf (tag numbers and tag names related with the tab	
display order in the navigation bar)	. 43
5.3. List of the operations available for waiting part and event transmission/reception trackers	. 68
5.4. Setting of the parameters of clweb.conf(Initial setting of the automatic reload)	
5.5. List of My Page panels	
5.6. Elements of the header part	
5.7. Width of the browser window and panel sizes	
5.8. Columns of the JNW My List	107
5.9. List of the statuses	
5.10. List of the progress statuses	116
5.11. List of the statuses in the charts	118
6.1. Values to be set for the clweb.conf parameters (SMTP server specification)	128
6.2. Values to be set for the clweb.conf parameters (for specifying character code for email)	129
6.3. Correspondence between language locales and character codes in sent email	
6.4. Values set to header file of email template	133
6.5. Replaceable character strings in the email template file	134
6.6. WebAPI functions	141
6.7. Error list	149
6.8. Error list	153
6.9. Error list	158
6.10. Error list	
6.11. Error list	
6.12. Error list	
6.13. Part list	
6.14. Instruction list	
6.15. Error list	
6.16. ujob:"unit job"	
6.17. erpjob:"ERP job"	
6.18. bijob:"BI job"	
6.19. pcjob:"PC job"	
6.20. wobsjob:"WOBS job"	
6.21. dia:"dialog"	
6.22. wait:"job waiting"	
6.23. event:"event"	
6.24. cont:"continue"	
	177
6.26. Error list	
9.1. CL/Web Server error messages	
9.2. Web browser error messages	189

1 Overview

This chapter provides an overview of JobCenter CL/Web.

JobCenter CL/Web enables execution state monitoring, immediate job network submission, and parameter checking by using a web browser.



Figure 1.1. Image of the JobCenter CL/Web window

■Conventions for abbreviations

JobCenter CL/Web is referred to as "CL/Web."

The JobCenter CL/Web Server is referred to as the "CL/Web Server."

1.1. Function Overview

The CL/Web functions are outlined below.

[
Category	Function	Reference		
Job Network	Lists job networks.	Section 5.4.1, "Viewing a Group"		
	Submits a job network immediately.	Section 5.4.3, "Submitting a Job Network Immediately"		
	Lets you browse job network definition information.	Section 5.4.2, "Viewing a Job Network"		
	Searches the job network list.	Section 5.1.2, "Search Function"		
Tracker	Lists trackers.	Section 5.5.1.1, "Listing Trackers"		
	Lets you operate trackers and tracker parts.	Section 5.5.2.1, "Operating a Job Network Tracker"		
	Searches the tracker list.	Section 5.1.2, "Search Function"		
	Lets you set a monitoring filter.	Section 5.5.1.2, "Displaying the Tracker List with a Period Specified"		
	Sends the URL shown in the tracker window via mail.	Section 6.1.3, "Mail Transmission Function"		
Schedule	Lists schedules.	Section 5.6.1, "Viewing a List of Schedules"		
	Lets you browse schedule definition information.	Section 5.6.2, "Viewing the Schedule Definition"		
	Lists linking jobnetworks.	Section 5.6.3, "Viewing the Linking JNW"		
	Enables/Disables schedules.	Section 5.6.4, "Enabling or Disabling the Schedule"		
Trigger	Lists triggers.	Section 5.7.1, "Viewing a List of Triggers"		
	Lets you browse trigger definition information.	Section 5.7.2, "Viewing the Trigger Definition"		
	Lists linking job networks of triggers.	Section 5.7.3, "Viewing the Linking JNW"		
	Enables/Disables triggers.	Section 5.7.4, "Enabling or Disabling the Trigger"		
Machine	Lists machines.	Section 5.8.1, "Viewing a List of Machines"		
	Lists queues.	Section 5.8.2, "Viewing a List of Queues"		
	Lets you operate a queue.	Section 5.8.3, "Operating a Queue"		
	Lists users.	Section 5.8.4, "Viewing a List of Users"		
	Searches a list window.	Section 5.1.2, "Search Function"		
Calendar	Lists calendars.	Section 5.9.1, "Viewing a List of Calendars"		
	Lets you browse calendar definition information.	Section 5.9.2, "Viewing the Calendar Definition"		
My Page	Displays the My Page window.	Section 5.10.2.1, "Displaying My Page"		
		J		

Table 1.1. CL/Web function list	Table	1.1.	CL/	′Web	function	list
---------------------------------	-------	------	-----	------	----------	------

Lets you add a panel to the My Page window.	Section 5.	10.2.2, "A	dding a Panel.	"
Lets you change panel settings.	Section Operations		"Common	Panel
Lets you limit the use of My Page.	Section 5.	10.5.1, "L	imit Mode"	

1.2. Introduction Effects

CL/Web enables job operation and monitoring using an install-less client, including error job discovery and immediate job network submission.

■Introduction effect 1

Previously, it was necessary to install a dedicated client (JobCenter CL/Win) for each monitoring terminal. Introducing CL/Web makes it possible to perform monitoring via a web browser without installing a dedicated client.



Figure 1.2. Introduction effect 1

■Introduction effect 2

Previously, when an error occurred, the relevant tracker name was sent via mail. With the mail transmission function of MG, the URL information of the tracker window present when the error occurred can be sent to a specified mail address. For details, refer to Section 6.1, "Details of the Mail Transmission Function".



Figure 1.3. Introduction effect 2

■Introduction effect 3

The event linkage function can output a macro that shows tracker URL information to an event message that is output by the viewer. For details, refer to Section 6.2, "Macro Functions".



Figure 1.4. Introduction effect 3 (an example of the HPOM product)

1.3. About the License

CL/Web is offered as a chargeable option of JobCenter.

To use this function, you need to purchase the license of JobCenter CL/Web.

1.4. Operating Environment

For information about the operating environment of CL/Web, refer to in <Release Notes>Section 3.1.5, "Details of the OSs supported by JobCenter CL/Web, required software, and browsers".

1.5. Glossary

The terms commonly used in relation to the Web functions are listed below.

Term	Description	
	Name of this product. JobCenter CL/Web enables execution state monitoring, immediate job network submission, and parameter checking by using a web browser.	
JobCenter CL/Web Server	Provides HTML contents and objects to be displayed in a web browser.	

1.6. Flow of the Steps for Using JobCenter CL/Web

The flow of the steps for using JobCenter CL/Web is shown below.

Prepare for CL/Web Server installation	Section 2.1.1, "Before Installation"
Install LicenseManager	Section 2.1.2, "Installing LicenseManager"
Register the codeword	Section 2.1.2, "Installing LicenseManager"
Install the CL/Web Server	Section 2.1.3, "Installing the CL/Web Server"
Set up the CL/Web Server environment	Section 3.1, "CL/Web Server"
Start the CL/Web Server	Section 4.1, "Starting the CL/Web Server"
Set up the web browser environment	··· Section 3.2, "Web Browser"
Access the CL/Web Server via the web browser]Section 5.2, "Accessing the CL/Web Server Using a Browser"

Figure 1.5. Flow of the steps for using JobCenter CL/Web

2 Installing and Uninstalling the CL/Web Server

This chapter describes how to install and uninstall the CL/Web Server.

2.1. Installation

This section describes the procedures for installing LicenseManager and CL/Web Server.

2.1.1. Before Installation

This section describes the tasks you need to perform before installation and the points to note.

■Installing the JRE

CL/Web is set up using Java in the installer. Therefore, before installing CL/Web Server, you need to install Java SE JRE7 or later supplied from Oracle.

Download the latest version from Oracle's website.



When installing CL/Web Server to Red Hat Linux 5, you need to install Java SE JRE7 or later supplied from Oracle, because the version of the default JRE is old.

■Stopping and uninstalling CL/Web Server (common to UNIX and Windows)

If CL/Web Server is already installed, you need to stop and uninstall it.

For information about how to stop and uninstall CL/Web Server, refer to Section 2.2, "Uninstallation".

2.1.2. Installing LicenseManager

This section describes how to install LicenseManager.

LicenseManager is a product for license management.

You need to install LicenseManager because the product is required to run CL/Web Server. For information about how to install LicenseManager, refer to in <Installation Guide>Section 2.2, "Installing LicenseManager".

For information about codeword registration, refer to in <Installation Guide>Section 2.3, "Codeword Registration".

2.1.3. Installing the CL/Web Server

This section describes how to install the CL/Web Server.

The following table shows the fixed disk size required to install CL/Web Server.

Table 2.1. Fixed disk size required to install CL/Web Server

Fixed disk capacity	100 MB
---------------------	--------

2.1.3.1. Installing CL/Web Server for UNIX

This section describes the procedure for installing CL/Web Server for UNIX.

- 1. Log in as the root user.
- 2. Insert and mount the JobCenter media (DVD-ROM). For details about how to mount the DVD-ROM, refer to the product manual of the target OS and other relevant documents.
- 3. Expand the CL/Web package in the media to an appropriate directory.

root> cd <directory-to-which-to-expand-the-package>

root> unzip <CLWEB_PRODUCT_PATH>



<CLWEB_PRODUCT_PATH> represents the path to the package file (<directory-to-which-to-mount-the-media>/PACKAGE/JB/OTHER/CLWEB/NECJCpkg-clweb.zip).

The path to the directory to which to expand the package must not contain any multibyte character. If any multibyte character is used, the execution of the install script described below will fail.

4. Execute the following script.

root> <directory-to-which-the-package-has-been-expanded>/clweb_install.sh

When asked about the installation path, select y if you will use the default path. To change the installation path, select n.

Do you use default installation path('/usr/local/jcclweb')? (y/n)

If you select n, the following message appears and you need to specify the installation path.

```
Please input installation path.
/var/jcclweb
```



Here, an example of changing the installation path to [/var/jcclweb] is described.



- ■If CL/Web Server is already installed, a warning is output and the installation is interrupted.
- ■If the specified folder already exists, a message (Already exists and is not an empty directory.) is output and the installation is interrupted. If the directory is empty, the installation continues.

If you select y or specify the installation path when asked about the default path, the installation starts.

If the message "Cannot find Java 1.5 or higher." is output and CL/Web Server cannot be installed even when the JRE is installed, set the JRE installation path in the environment variable JAVA_HOME before executing [clweb_install.sh] (the following is a setting example in which /bin/sh is used).

JAVA_HOME=<JRE-install-path>
export JAVA_HOME

5. If there is no error after command execution, the following message appears. The installation has been finished successfully.

Install finished successfully.

6. If the installation has been finished successfully, proceed to Chapter 3, [Environment Setup].

2.1.3.2. Installing CL/Web Server for Windows

This section describes the procedure for installing CL/Web Server for Windows.



In the following description, Q: is assumed to be the CD/DVD-ROM drive. If the CD/DVD-ROM drive is assigned to a different drive, read the description accordingly.

- 1. Log in as the local administrator.
- 2. Set the JobCenter media (DVD-ROM) and copy the CL/Web package in the media (Q:\PACKAGE\JB \OTHER\CLWEB\NECJCpkg-clweb.zip) to a desired location on the local disk.
- 3. Expand "NECJCpkg-clweb.zip" to an appropriate directory using the expansion function of the OS or a decompression tool.



The path to the directory to which the package is to be expanded must not include multibyte characters. If multibyte characters are used, the execution of the install script described below will fail.

- 4. Open the command prompt. You can open the command prompt by selecting [Start], [All Programs], and then [Accessories].
- 5. At the command prompt, execute [clweb_install.bat].

<directory-to-which-the-package-has-been-expanded>\clweb_install.bat

When asked about the installation path, select y if you will use the default path. To change the installation path, select n.

Do you use default installation path('C:\jcclweb')? (y/n)

If you select n, the following message appears and you need to specify the installation path.

Please input installation path. D:\jcclweb



Here, an example of changing the installation path to [D:\jcclweb] is described.

⚠

■The installation path must not include multibyte characters.

- ■If CL/Web Server is already installed, a warning is output and the installation is interrupted.
- ■If the specified folder already exists, a message (Already exists and is not an empty directory.) is output and the installation is interrupted. If the folder is empty, the installation continues.

If you select y or specify the installation path when asked about the default path, the installation starts.



If the message "Cannot find Java 1.5 or higher." is output and CL/Web Server cannot be installed even when the JRE is installed, set the JRE installation path in the environment variable JAVA_HOME before executing [clweb_install.bat].

set JAVA_HOME=<JRE-install-path>

6. If there is no error after command execution, the following message appears. The installation has been finished successfully.

Start CL/Web service regist Finish CL/Web service regist Install finished successfully. Finish. Please Push a Key...

After the above is displayed, press any key to return to the prompt.

7. If the installation has been finished successfully, proceed to Chapter 3, [Environment Setup].

2.2. Uninstallation

This section describes how to uninstall LicenseManager and CL/Web Server.

2.2.1. Uninstalling LicenseManager

For information about how to uninstall LicenseManager, refer to in <Installation Guide>Section 4.1, "Uninstalling LicenseManager".

2.2.2. Uninstalling the CL/Web Server

2.2.2.1. Uninstalling the CL/Web Server for UNIX

This section describes the procedure for uninstalling CL/Web Server for UNIX.

- 1. Stop the CL/Web Server services. For information about how to stop the services, refer to Section 4.2.1, "Stopping the CL/Web Server for UNIX".
- 2. Execute the following command to uninstall CL/Web Server for UNIX.

%InstallDirectory%/run/clweb_ctrl.sh uninstall

3. Delete %InstallDirectory%.

2.2.2.2. Uninstalling the CL/Web Server for Windows

This section describes the procedure for uninstalling CL/Web Server for Windows.

- 1. Stop the CL/Web Server service. For information about how to stop the service, refer to Section 4.2.2, "Stopping the CL/Web Server for Windows".
- 2. Execute the following command to uninstall CL/Web Server for Windows.

%InstallDirectory%\run\clweb_service.bat uninstall

3. Delete %InstallDirectory%.

2.3. Upgrade

This section describes the CL/Web Server upgrade procedure.

2.3.1. Upgrading CL/Web Server for UNIX

This section describes how to upgrade CL/Web Server for UNIX.

- 1. Stop the CL/Web Server services. For information about how to stop the services, refer to Section 4.2.1, "Stopping the CL/Web Server for UNIX".
- 2. Back up the CL/Web Server configuration file. Copy the following file to a directory unrelated with the CL/Web Server.

%InstallDirectory%/config/clweb.conf

Back up the CL/Web Server mail template file in the same way. Copy the following directory to a directory unrelated with the CL/Web Server.

%InstallDirectory%/config/mail

Back up the CL/Web Server My Page configuration file in the same way. Copy the following directory to a directory unrelated with the CL/Web Server.

%InstallDirectory%/config/mypage

Back up the CL/Web Server execution log file in the same way. Copy the following directory to a directory unrelated with the CL/Web Server.

%InstallDirectory%/log

- 3. Uninstall the CL/Web Server. For information about how to unistall the server, refer to Section 2.2.2.1, "Uninstalling the CL/Web Server for UNIX".
- 4. Install the new version of the CL/Web Server.
- 5. Restore the backed-up CL/Web Server configuration file.

2.3.2. Upgrading CL/Web Server for Windows

This section describes how to upgrade CL/Web Server for Windows.

- 1. Stop the CL/Web Server services. For information about how to stop the services, refer to Section 4.2.2, "Stopping the CL/Web Server for Windows".
- 2. Back up the CL/Web Server configuration file. Copy the following file to a folder unrelated with the CL/Web Server.

%InstallDirectory%\config\clweb.conf

Back up the CL/Web Server mail template file in the same way. Copy the following folder to a folder unrelated with the CL/Web Server.

%InstallDirectory%\config\mail

Back up the CL/Web Server mypage configuration file in the same way. Copy the following folder to a folder unrelated with the CL/Web Server.

%InstallDirectory%\config\mypage

Back up the CL/Web Server execution log file in the same way. Copy the following folder to a folder unrelated with the CL/Web Server.

%InstallDirectory%\log

- 3. Uninstall the CL/Web Server. For information about how to unistall the server, refer to Section 2.2.2.2, "Uninstalling the CL/Web Server for Windows".
- 4. Install the new version of the CL/Web Server.
- 5. Restore the backed-up CL/Web Server configuration file.

2.4. Case When Re-installing is Needed

The CL/Web Server needs to be re-installed in the following cases.

- ■The JRE installation path is changed due to a reason such as JRE upgrade.
- ■The LicenseManager installation path is changed due to a reason such as re-installation of LicenseManager.
- ■You want to change the CL/Web Server installation path.

2.4.1. Re-installing the CL/Web Server for UNIX

This section describes how to re-install the CL/Web Server for UNIX.

- 1. Stop the CL/Web Server services. For information about how to stop the services, refer to Section 4.2.1, "Stopping the CL/Web Server for UNIX".
- 2. Back up the CL/Web Server configuration file. Copy the following file to a directory unrelated with the CL/Web Server.

%InstallDirectory%/config/clweb.conf

Back up the CL/Web Server execution log file in the same way. Copy the following directory to a directory unrelated with the CL/Web Server.

%InstallDirectory%/log

- 3. Uninstall the CL/Web Server. For information about how to unistall the server, refer to Section 2.2.2.1, "Uninstalling the CL/Web Server for UNIX"
- 4. Upgrade JRE and re-install LicenseManager.
- 5. Re-install the CL/Web Server.
- 6. Restore the backed-up CL/Web Server configuration file.

2.4.2. Re-installing the CL/Web Server for Windows

This section describes how to re-install the CL/Web Server for Windows.

- 1. Stop the CL/Web Server services. For information about how to stop the services, refer to Section 4.2.2, "Stopping the CL/Web Server for Windows".
- 2. Back up the CL/Web Server configuration file. Copy the following file to a folder unrelated with the CL/Web Server.

%InstallDirectory%\config\clweb.conf

Back up the CL/Web Server execution log file in the same way. Copy the following folder to a folder unrelated with the CL/Web Server.

%InstallDirectory%\log

- 3. Uninstall the CL/Web Server. For information about how to unistall the server, refer to Section 2.2.2.2, "Uninstalling the CL/Web Server for Windows".
- 4. Upgrade JRE and re-install LicenseManager.

- 5. Re-install the CL/Web Server.
- 6. Restore the backed-up CL/Web Server configuration file.

2.5. Checking the Version

This section describes how to check the version of CL/Web.

■When you can connect to CL/Web via a browser

Connect to CL/Web via a browser, and check "JobCenter CL/Web R XX.YY" at the bottom of the login window.

■When you cannot connect to CL/Web via a browser or CL/Web is stopped

Check '\$clweb_version = "XX.YY"' in %InstallDirectory%/config/version.rb.

XX.YY indicates the version number.

3 Environment Setup

This chapter describes the environment setup for CL/Web.

3.1. CL/Web Server

3.1.1. CL/Web Configuration File (clweb.conf)

Specify various CL/Web Server settings by editing the CL/Web configuration file (clweb.conf).

clweb.conf is stored in the following location:

```
%InstallDirectory%\config\clweb.conf
```

The default format of clweb.conf is as follows:

```
# $port = 443
# $bind = "0.0.0.0"
# $ssl_disable = false
# $tracker_auto_refresh = false
# $jccombase = 611
# $allow_ssl = false
# $mail_server = "smtpserver"
# $mail_port = 25
# $mail_domain = ""
# $mail_authentication = "plain"
# $mail_username = "username"
# $mail_password = "password"
# $mail_from = ""
# $mail_charset_utf8 = true
# $relative_url_root = "/clweb"
# main menu tab order
 jnws: 1, trackers: 2, schedules: 3, machines: 4, calendars: 5, mypage: 6, triggers: 7
#
 $tab order = "6 1 2 3 7 4 5"
```

You need to restart CL/Web to put the settings of the CL/Web configuration file (clweb.conf) into effect.

3.1.2. Setting the Port to Use

The default communication protocol used by the CL/Web Server is TLS (SSL). Communication is enabled by setting the port number to be used in the CL/Web configuration file clweb.conf.

Set the port number in the clweb.conf file as follows:

1. Delete the # sign that is written at the beginning of the line containing the port variable \$port.

Text following the # sign is assumed to be commented out. The setting is disabled if the line has the # sign at the beginning. To enable the setting, the # sign needs to be deleted.

■Setting example

Before the default port number is set

\$port=443

After the default port number is set

\$port=443

2. The default port number is 443. If you do not use the default port number, change it to a desired number.



For the port used by the CL/Web Server, refer to in <Environment Guide>Section 2.1.6, "https".

3. Save the clweb.conf file.

The format of the clweb.conf file and the items to be set are as shown below.

Table 3.1. Values to be set for the clweb.conf parameters (for specifying port number)

Setting	Description	Туре	Default setting value
\$port	Specify an TLS (SSL) port number required for communication between the CL/Web Server and web browsers. (If TLS (SSL) is disabled, specify an HTTP port number.)		443
\$bind ^{Note 1}	If the server has more than one IP address, you need to specify an IP address.	Character string	0.0.0.0
\$ssl_disable	Specify true or false to determine whether to disable TLS (SSL) for communication between the CL/Web Server and web browsers.		false
	true: Disable TLS (SSL). HTTP is used for communication between the CL/Web Server and web browsers.		
	false: Enable TLS (SSL).		
\$jccombase	Specify the port (JCCOMBASE) to be used for the CL/Web Server to communicate with MG/ SV.		611
	If the port to be used is not changed on the MG/SV side, this parameter does not need to be set.		
\$allow_ssl	Specify true or false to determine whether to use only TLS for communication between the CL/Web Server and web browsers without using SSLv3.		false
	true: Enable SSLv3. A connection can also be set up using SSLv3. (Be careful about vulnerabilities.)		
	false: Disable SSLv3. Communication can be performed only using TLS.		

■Note 1: Optional parameter. Do not change this parameter if it does not need to be set.

■When a character string is specified, it needs to be enclosed within double quotation marks.

■If a firewall exists in the machine where CL/Web Server is installed, you need to open a hole for the network port to be used by CL/Web.

3.1.3. Setting SSL Signature Certificate

The CL/Web Server is configured to perform TLS (SSL) communication using self-signed certificates provided by default. Please prepare an SSL signature certificate (certificate file and secret key file) appropriate for the CL/Web Server from the self-signed certificates.

Prepare an SSL signature certificate according to settings such as the host name of the server to be installed, and store "Certificate file" and "Secret key file" in the specified location shown below.

The CL/Web configuration file is stored in the following location:

%InstallDirectory%\config

The certificate file and the secret key file are the following files:

Certificate file name	ssl_cert
Secret key file name	ssl_key
File format	The files are issued from the certificate authority and the format is the one used by OpenSSL.

If either the ssl_cert file or the ssl_key file does not exist, an error occurs when CL/Web starts up to prevent it from starting up.

Be careful not to use self-signed certificates for testing officially. Use the SSL signature certificate issued by the certificate authority, etc. to the host of the CL/Web Server. (Take extreme care when using the certificate via the Internet.)

Construction of an https environment is not always required when using the certificate in a closed network environment. In this case, set the value of "\$ssl_disable" of clweb.conf in Table 3.1 to true and use http communication. An SSL signature certificate is not required in this case.

3.1.4. Setting Subdirectory of URL

The CL/Web Server access URL is https://<CL/Web Server host name or IP address>/ by default.

By setting the subdirectory, the access URL can be changed to https://<CL/Web Server host name or IP address>/<subdirectory>/.

Using this setting and the reverse proxy function provided by Apache, etc., the CL/Web Server and other servers can be in the same URL space.

Specify the URL subdirectory in the CL/Web configuration file clweb.conf.

The format and items included in clweb.conf related to URL subdirectory are as follows:

Table 3.2. Values to be set for the clweb.conf parameter (for specifying URL subdirectory)

Parameter	Description	Туре	Setting value
	Specifies the subdirectory path.	Character string	Subdirectory path

3.2. Web Browser

This section describes the settings needed to start the web browser.

3.2.1. Setting Active Scripting

To use Internet Explorer, you need to have [Active scripting] enabled.

- 1. Start Internet Explorer, and click [Tools] [Internet Options].
- 2. Select the [Security] tab, and click [Customize level] in [Internet Zone].
- 3. In the [Security Settings] dialog box, check that the option button for [Enable] is selected under [Active scripting]. If the option button for [Enable] is not selected, select it.

Settings			
Scrip!	ina		
	ctive scripting		
	Disable		
	Enable		
	Prompt		
E R	llow Programmatic clipboar	rd access	
	Disable		
) Enable		
	Prompt		
S A	llow status bar updates vi	a script	
) Disable		
) Enable		
	llow websites to prompt fo	r information using se	cripted wind
) Disable		
) Enable		-
(IT) F	nahla VSS filtar III		•
	ect after you restart Inter	mak Evelayay	
· Takes en	ett arter you restart Inter	net Explorer	
Reset custo	m settings		
Reset to:	Medium-high (default)	•	Reset

Figure 3.1. Active scripting setting window

3.2.2. Setting Font Download

To use Internet Explorer, you need to have Font download enabled.

- 1. Start Internet Explorer, and click [Tools] [Internet Options].
- 2. Select the [Security] tab, and click [Custom Level] in [Internet Zone].
- 3. In the [Security Settings] dialog box, check that the option button for [Enable] is selected under [Font download]. If the option button for [Enable] is not selected, select it.

Security Settings - Internet Zone	×
Settings	
*Takes effect after you restart your computer	
Reset custom settings Reset to: Medium-high (default)	
OK Cancel	

Figure 3.2. Font download setting window

3.2.3. Setting TLS (SSL)

When you use TLS (SSL) for communication between the CL/Web Server and web browser (Internet Explorer), you need to have the browser set to use TLS (SSL).

- 1. Start Internet Explorer, and click [Tools] [Internet Options].
- 2. Select the [Advanced] tab, and check that one of the following option buttons is selected in the [Security] section under [Settings]:
 - ■[Use TLS 1.0]
 - ■[Use TLS 1.1]
 - ■[Use TLS 1.2]
- 3. If neither option button is selected, select one of them.
| | | I | nternet | Options | | ? | × | |
|---|--|---------|---------|-------------|----------|------|------|--|
| General | Security | Privacy | Content | Connections | Programs | Adva | nced | |
| Setting | Settings | | | | | | | |
| Enable memory protection to help mitigate online attacks* Enable native XMLHTTP support Enable SmartScreen Filter Enable Strict P3P Validation* Send Do Not Track requests to sites you visit in Internet E Use SSL 2.0 Use SSL 3.0 Use TLS 1.0 Use TLS 1.1 Use TLS 1.2 Warn about certificate address mismatch* Warn if changing between secure and not secure mode Warn if POST submittal is redirected to a zone that does n | | | | | | | | |
| <
*T-I | | | | | | | | |
| - Tak | *Takes effect after you restart your computer
Restore advanced settings | | | | | | | |
| | Reset Internet Explorer settings | | | | | | | |
| Resets Internet Explorer's settings to their default Reset | | | | | | | | |
| Yous | You should only use this if your browser is in an unusable state. | | | | | | | |
| | | | Ok | | ancel | App | oly | |

Figure 3.3. TLS (SSL) setting window



3.2.4. Enabling Cookies

Because CL/Web uses cookies, you need to enable cookies.

Check your browser to see whether it is set to accept cookies. For details about the setting method, refer to the help of Internet Explorer.

3.2.5. Case When Safari Running on iOS Is Used

CL/Web uses JavaScript and cookies. Therefore, JavaScript and cookie must be enabled in Safari settings for devices run on iOS, such as iPad.

In this chapter and later, concerning operation of CL/Web, read "click" and "press" as "tap", and "right click" as "long tap" accordingly. When a long tap is performed, a magnifier may be displayed, which is Safari's behavior.

When CL/Web is used from Safari, to avoid transition of screens by an operation mistake, the linked pages are not displayed even if items on tables or parts of tracker flow are tapped. If you want to display the linked pages, long tap to display the shortcut menu and tap [Open].

3.3. Server Environment Migration

This section describes the procedure for transferring the environment when changing the IP address or host name of the CL/Web Server.

3.3.1. Changing the IP Address

To change the IP address of the CL/Web Server, the fixed IP address in clweb.conf must be modified.

3.3.1.1. Correcting clweb.conf

If \$bind is specified in the CL/Web environment setting file (clweb.conf), add the changed IP address, and restart the server.

3.3.2. Changing the Host Name

To change the host name of the CL/Web Server, the SSL signature certificate must be updated.

3.3.2.1. Reissuing the SSL Signature Certificate

Reissue the SSL signature certificate with a new host name.



If the host name of the SSL signature certificate is different, a warning screen may appear to indicate that security of connection is not confirmed and connection is not established depending on the browser.

3.3.2.2. Registering the SSL Signature Certificate Again

Replace the ssl_cert file and ssl_key file registered in Section 3.1.3, "Setting SSL Signature Certificate" with those reissued.

4 Starting and Stopping the CL/Web Server

This chapter describes how to start and stop the CL/Web Server.

4.1. Starting the CL/Web Server

4.1.1. Starting the CL/Web Server for UNIX

In the case of the CL/Web Server for UNIX, start the service by executing a script.

Before RHEL6.x system (Start-up by the /sbin/init)

1. Execute the following script.

/etc/init.d/jcclweb start

After RHEL7.x system (Start-up the systemd)

1. Execute the following script.

systemctl start jcclweb

4.1.2. Starting the CL/Web Server for Windows

To start the CL/Web Server for Windows, use the Windows service function.

1. In Windows, select [Start] - [Run], enter "services.msc" in [Open], and click [OK].



Figure 4.1. [Run] dialog box



How to start Windows services differs depending on the Windows versions. For how to start services in each Windows version, refer to Windows Help.

2. When the [Services] window opens, right-click "JobCenter CL/Web Service" under [Name] and select [Start].

-> 🖬 🗎	Q 📑 🛛 🖬 🕨 🖬 🕪						
Services (Local)	🔍 Services (Local)						
	JobCenter CL/Web Service	Name	Description	Status	Startup Type	Log On As	
	Start the service Description: Web Service for JobCenter	JobCenter CL/Web Service IPsec Policy Agent IP Helper Internet Connection Shari Interactive Services Detect IkE and AuthIP IPsec Keyi Human Interface Device A HomeGroup Provider HomeGroup Provider Health Key and Certificate Group Policy Client Function Discovery Resou Fax Extensible Authentication Distributed Transaction C Distributed Link Tracking	Enables you The Extensi Provides th The DNS Cli Coordinates	es	Automatic Manual Automatic Disabled Manual Automatic Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Manual Automatic Manual Automatic	Local Syste Network S Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Service Local Service Network S Network S Network S Network S Network S Local Syste	
		🤹 Disk Defragmenter 🤐 Diagnostic System Host	Provides Dis The Diagno	Started	Manual Manual	Local Syste Local Syste	

Figure 4.2. Service start window

3. When the status of "JobCenter CL/Web Service" is [Started], the procedure for starting CL/Web Server is complete.

es (Local) Services (Local)					
JobCenter CL/Web Service	Name	Description	Status	Startup Type	Log On As
	🝓 JobCenter CL/Web Service	Web Service	Started	Automatic	Local Syste
Stop the service Restart the service	🔍 IPsec Policy Agent	Internet Pro	Started	Manual	Network S
Mestart the service	🔍 IP Helper	Provides tu	Started	Automatic	Local Syste
	🔍 Internet Connection Shari	Provides ne		Disabled	Local Syste
Description:	🔍 Interactive Services Detect	Enables use		Manual	Local Syste
Web Service for JobCenter	🔍 IKE and AuthIP IPsec Keyi	The IKEEXT	Started	Automatic	Local Syste
	🔍 Human Interface Device A	Enables gen		Manual	Local Syste
	🔍 HomeGroup Provider	Performs ne		Manual	Local Service
	🔍 HomeGroup Listener	Makes local		Manual	Local Syste
	🧠 Health Key and Certificate	Provides X.5		Manual	Local Syste
	🔍 Group Policy Client	The service	Started	Automatic	Local Syste
	🔍 Function Discovery Resou	Publishes th		Manual	Local Service
	🔍 Function Discovery Provid	The FDPHO		Manual	Local Service
	🔍 Fax	Enables you		Manual	Network S
	🔍 Extensible Authentication	The Extensi		Manual	Local Syste
	🔍 Encrypting File System (EF	Provides th		Manual	Local Syste
	🔍 DNS Client	The DNS Cli	Started	Automatic	Network S
	🔍 Distributed Transaction C	Coordinates		Manual	Network S
	🧠 Distributed Link Tracking	Maintains li	Started	Automatic	Local Syste
	🔍 Disk Defragmenter	Provides Dis		Manual	Local Syste
	🔍 Diagnostic System Host	The Diagno	Started	Manual	Local Syste

Figure 4.3. Window where the service is started



After CL/Web Server is installed, the service is stopped. You need to start it manually.

4.2. Stopping the CL/Web Server

4.2.1. Stopping the CL/Web Server for UNIX

In the case of the CL/Web Server for UNIX, stop the service by executing a script.

Before RHEL6.x system (Shutdown by the /sbin/init)

1. Execute the following script.

/etc/init.d/jcclweb stop

After RHEL7.x system (Shutdown by the systemd)

1. Execute the following script.

systemctl stop jcclweb

4.2.2. Stopping the CL/Web Server for Windows

To stop the CL/Web Server for Windows, use the Windows service function.

- 1. Start the Windows service. For details, refer to Section 4.1.2, "Starting the CL/Web Server for Windows".
- 2. When the [Services] window opens, right-click "JobCenter CL/Web Service" under [Name] and select [Stop].

• 🔿 🔲 🗐	o 🗟 🚺 🖬 🕨 🗉 🕪						
Services (Local)	Services (Local)						
	JobCenter CL/Web Service	Name	Description	Status	Startup Type	Log On As	
		🝓 JobCenter CL/Web Service	Start		Automatic	Local Syste	
	Stop the service Restart the service	🔍 IPsec Policy Agent			Manual	Network S	
	Nestart the service	🔍 IP Helper	Stop		Automatic	Local Syste	
		🔍 Internet Connection Shari	Pause		Disabled	Local Syste	
	Description: Web Service for JobCenter	🔍 Interactive Services Detect	Resum	2	Manual	Local Syste	
	Web Service for JobCenter	🔍 IKE and AuthIP IPsec Keyi	Restart		Automatic	Local Syste	
		🤐 Human Interface Device A	All Task		Manual	Local Syste	
		🤐 HomeGroup Provider	All Task	3	Manual	Local Service	
		🌼 HomeGroup Listener	Refresh		Manual	Local Syste	
		🤐 Health Key and Certificate			Manual	Local Syste	
		🔍 Group Policy Client	Proper	ties	Automatic	Local Syste	
		🤹 Function Discovery Resou	Help		Manual	Local Service	
		🧟 Function Discovery Provid			Manual	Local Service	
		🤐 Fax	Enables you		Manual	Network S	
		🧟 Extensible Authentication			Manual	Local Syste	
		Encrypting File System (EF			Manual	Local Syste	
		Q DNS Client	The DNS Cli		Automatic	Network S	
		Distributed Transaction C			Manual	Network S	
		Distributed Link Tracking			Automatic	Local Syste	
		Disk Defragmenter	Provides Dis		Manual	Local Syste	
		🧠 Diagnostic System Host	The Diagno	Started	Manual	Local Syste	

Figure 4.4. Service stop window

3. When the status of "JobCenter CL/Web Service" is blank as shown in the following screenshot, the procedure for stopping CL/Web Server is complete.

• 🔿 🔲 🗐	🖸 📑 🚺 🖬 🕨 🖬 🚺					
Services (Local)	O Services (Local)					
	JobCenter CL/Web Service	Name	Description	Status	Startup Type	Log On As
		端 JobCenter CL/Web Service	Web Service for JobCenter		Automatic	Local Syste
	Start the service	🔍 IPsec Policy Agent	Internet Protocol security	Started	Manual	Network S
		🔍 IP Helper	Provides tunnel connecti	Started	Automatic	Local Syste
	Description:	🔍 Internet Connection Shari	Provides network address		Disabled	Local Syste
	Web Service for JobCenter	🎑 Interactive Services Detect	Enables user notification		Manual	Local Syste
		🔍 IKE and AuthIP IPsec Keyi	The IKEEXT service hosts t	Started	Automatic	Local Syste
		🔍 Human Interface Device A	Enables generic input acc		Manual	Local Syste
		🔍 HomeGroup Provider	Performs networking task		Manual	Local Service
		🔍 HomeGroup Listener	Makes local computer ch		Manual	Local Syste
		🔍 Health Key and Certificate	Provides X.509 certificate		Manual	Local Syste
		Group Policy Client	The service is responsible	Started	Automatic	Local Syste
		Kunction Discovery Resou			Manual	Local Service
		Kunction Discovery Provid	The FDPHOST service hos		Manual	Local Service
		🔍 Fax	Enables you to send and r		Manual	Network S
		Extensible Authentication	The Extensible Authentica		Manual	Local Syste
		🔍 Encrypting File System (EF	Provides the core file encr		Manual	Local Syste
		Q DNS Client	The DNS Client service (d	Started	Automatic	Network S
		Distributed Transaction C	Coordinates transactions		Manual	Network S
		🔍 Distributed Link Tracking	Maintains links between	Started	Automatic	Local Syste
		🔍 Disk Defragmenter	Provides Disk Defragment		Manual	Local Syste
		🛄 Diagnostic System Host	The Diagnostic System H	Started	Manual	Local Syste

Figure 4.5. Window where the service is stopped

5 Basic Operations

This chapter describes how to operate the basic functions of CL/Web.



The descriptions in this chapter assume that TLS (SSL) is enabled. If TLS (SSL) is disabled, "https" in the URL of the CL/Web Server shown in the descriptions should be replaced with "http."

5.1. Basic CL/Web Operations

The following sections describe how to perform the basic operations mentioned in this document by using examples.

5.1.1. Name and Outline of Each Part of the CL/Web Window

JobCenter CL/Web	[UMS Normal Mode]			🗐 jobo	enter-manager 🎴	root 🕞
My Page Jobnetwork	Fracker Schedu	le Machine	Calendar		<u>Auto Reload</u>	OFF
🖻 🖻 Root	daily_patch			201	5/06/02 00:00 1 da	av 3.
□ ▷ end_of_month_start_job □ ▷ monthly patch	Name	Status	Comment	Expected Start Time	Expected End Time	Start Time
- refresh	daily_treatment4	PREPARE		2015/06/02 16:15:00	2015/06/02 16:15:00	
🖳 📂 test_job_list	daily_treatment1	DIALOG		2015/06/02 12:02:27	2015/06/02 12:02:27	2015/06/0
🗀 🖿 UnitJnw	daily_treatment4	DONE[ARCHIVED]		2015/06/02 11:59:21	2015/06/02 11:59:21	2015/06/0
	daily_treatment1	DONE[ERROR][ARCHI	4	2015/06/02 11:58:16	2015/06/02 11:58:16	2015/06/0
	daily_treatment4	PREPARE[HOLD]		2015/06/02 11:31:57	2015/06/02 11:31:57	
	daily_treatment2	RUN[WAIT]		2015/06/02 11:08:03	2015/06/02 11:08:03	2015/06/0
	daily_treatment1	DONE[ERROR][ARCHI	29	2015/06/02 11:03:57	2015/06/02 11:03:57	2015/06/0
	daily_treatment2	DONE[ARCHIVED]		2015/06/02 10:50:05	2015/06/02 10:50:05	2015/06/0
	daily_treatment1	DONE[ARCHIVED]		2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/0
	Search:	Name		nore case 🔲 Search usi	ng a regular expression	

Figure 5.1. CL/Web window

The name and outline of each part of the CL/Web window are given below.

Area name	Description
(1) Title bar	This is the header representing a JobCenter product.
	■Product name
	JobCenter CL/Web is displayed.
	■User mode
	Either UMS or EUI is displayed depending on the user who logs in.
	Also, the mode selected at the time of login is displayed.
	For information about the login user-specific GUI screen mode and the registration mode selected at the time of server connection, refer to in <basic guide="">Section 2.3.3, "GUI Display Mode per Login User, Login Mode when Connecting Server".</basic>
	■Server:
	The server name is displayed.
	Clicking the server name displays a dialog box containing the server information.

Area name	Description
	■User:
	The name of the user logging in to CL/Web is displayed.
	Clicking the user name displays a dialog box containing the user information.
	■Logout
	Clicking this part displays the login window.
(2) Navigation bar	This bar displays seven menus:[MyPage] [Jobnetwork], [Tracker], [Schedule], [Trigger], [Machine], and [Calendar]. By changing the CL/Web configuration file, clweb.conf, the display order of tabs in the navigation bar can be set. For details, refer to Section 5.1.5, "Setting the Tab Display Order in the Navigation Bar".
(3) Display table	What is displayed here changes depending on the menu selected in the navigation bar.
	■Job Network menu
	A list of job networks is displayed.
	■Tracker menu
	A tracker menu list is displayed.
	■Machine menu
	A list of machines is displayed.
(4) Search bar	A search can be done for an item selected from the pull-down menu.
(5) Status bar	This bar lets you select the number of trackers to be displayed, navigate through pages, and update the tracker window.
(6) Statistic information bar	The number of trackers is displayed for each tracker state (WAIT, RUN ,etc.). The statistic information bar is displayed only on the tracker window.
(7) Tree view	The tree structure of groups is displayed.

5.1.2. Search Function

CL/Web has a search bar and a status bar for each navigation bar.

The following sections describe how to use the search bar and status bar.

5.1.2.1. Search Bar

1. From the pull-down menu, select the item you want to search for.

← → JC https://clweb-serve	er/en/jnws 🔎 – 🔒 C	JC JNW List - JobCenter CL ×	l	- □ × ↑★☆
JobCenter CL/We	b [UMS View Mode]		🚦 jobcenter-manager 💄	root 🕞
My Page Jobnetwork	Tracker Schedule Machine	e Calendar		
E Root	daily_patch			٦
end_of_month_start_jot	Name	Parent Group	Comment	
test_job_list	🗑 ЈОВ6	/daily_patch		
└ 🖿 UnitJnw	daily_treatment1	/daily_patch		
	aily_treatment2	/daily_patch		
	daily_treatment3 daily_treatment4	/daily_patch /daily_patch		_
	Search: daily_treatment1 Name	V Ignore case Search	using a regular expression	>
< >	Q 50 ✓ 🖌 🖣 Page 1	of 1 🕨 🕅 😳 1 - 5 eleme	ents are displayed (total: 5).	

Figure 5.2. Search bar window

- 2. Enter a search name in the Search text box, and press "Enter" on the keyboard.
- 3. The search result is displayed according to the items set on the search bar.

~				
C - JC https://clweb-server/	en/jnws 🔎 🗕 🕻	JC JNW List - JobCenter CL ×	A	★ \$
JobCenter CL/Web	[UMS View Mode]		🚦 jobcenter-manager 💄 root	
My Page Jobnetwork	Tracker Schedule Macl	hine Calendar		
E Root	daily_patch			٩
end_of_month_start_job	Name	Parent Group	Comment	
test job list	aily_treatment1	/daily_patch		
🗆 🖿 UnitJnw				
	<			>
	Search: daily_treatment1 Na	me 🗸 🗌 Ignore case 🔲 Searc	h using a regular expression	_
		e <mark>1 of 1 ▶ ▶ ○</mark> 1 - 1 elen	marks are displayed (keep), 1)	
< >	Page		nents are displayed (total: 1).	

Figure 5.3. Search result window

The items to be set on the search bar are as follows.

■Search

Enter the string to search for.

■Ignore case

If you select this check box, you can make the search case insensitive.

Search using a regular expression

If you select this check box, you can use a Perl-compatible regular expression.



If you do not select the [Search using a regular expression] check box, an exact match search

5.1.2.2. Status Bar

The status bar lets you set the number of lines to be displayed, navigate through pages, update the display table, etc.



Figure 5.4. Status bar screenshot

The following table describes the functions of the status bar, each of which is given a number in the above screenshot.

Table 5.1. Description of the status bar functions

Description
Clicking this icon hides the status bar. To put the status bar back on, click the icon again.
From the pull-down menu, you can specify the number of lines to be displayed in the display table. The specifiable values are 10, 15, 20, 30, 50, 100, and 200.
Clicking this icon displays the top page.
Clicking this icon displays the previous page.
The current page number is displayed. If you enter a page number and press "Enter" on the keyboard, the specified page is displayed.
Clicking this icon displays the next page.
Clicking this icon displays the last page.
Clicking this icon updates the display table to its latest state.
The number of displayed matches is displayed. The display range changes depending on the value specified in (2).
You can move the search bar and status bar up and down. If you click the bottom part of the status bar and move the cursor up or down while holding down the mouse key, the search bar and status bar moves up or down.



You cannot update the tree view by using the function of (8). To update the tree view, use the F5 key or the refresh function of the web browser.

5.1.3. Sort Function

You can sort a specific column in the display table in dictionary order.

The sorting method is described below.

1. Place the cursor on the desired column name tab, and click it.

C https://clweb-serve	r/en/jnws 🔎 – 🔒 (JC JNW List - JobCenter CL ×	- □ × A ★ \$
JobCenter CL/Wel	b [UMS View Mode]	jobcen	ter-manager 💄 root 🕞
My Page Jobnetwork	Tracker Schedule Machine	Calendar	
🖹 🞥 Root	daily_patch		٦
늘 end_of_month_start_job	Name	Parent Group	Comment
monthly_patch test_job_list	18 NextSubjob	/daily_patch	
b UnitJnw	B daily_treatment1	/daily_patch	
	aily_treatment2	/daily_patch	
	B daily_treatment3	/daily_patch	
	B daily_treatment4	/daily_patch	
	Accept_job	/daily_patch	
	monthly_treatment1	/daily_patch	
	Search: Name	V Ignore case Search using a regular	expraction
<>	Q 50 ✓ I Page 1	of 1 F I O 1 - 7 elements are displaye	d (total: 7).

Figure 5.5. Window before sorting

2. The column is sorted in dictionary order. To restore its previous state, place the cursor on the column name tab and click it again.

C https://clweb-serve	r/en/jnws 🔎 – 🔒	C JC JNW List - JobCenter CL ×	_ □ _ × ☆ ☆ :
JobCenter CL/Wel	b [UMS View Mode]	jobcen	iter-manager 💄 root 🕞
My Page Jobnetwork		Calendar	
🖹 🞥 Root	daily_patch		٦
📂 end_of_month_start_job	Name	Parent Group	Comment
monthly_patch test_job_list	monthly_treatment1	/daily_patch	
UnitJnw	Accept_job	/daily_patch	
	B daily_treatment4	/daily_patch	
	B daily_treatment3	/daily_patch	
	T daily_treatment2	/daily_patch	
	B daily_treatment1	/daily_patch	
	TextSubjob	/daily_patch	
	<		>
	Search: Name	✓ 🔲 Ignore case 📃 Search using a regular	expression
	Q 50 ✓	of 1 > > 1 - 7 elements are displaye	ed (total: 7).

Figure 5.6. Window after sorting



The sort function can be used for all the columns.

5.1.4. Display Table Column Display Function

You can display columns other than the default values in the display table. You can also hide a specific column.

The display table column display function is described below.

1. If you place the cursor on a column name tab, the [Hide/Show Columns] button is displayed on the right. Click the [Hide/Show Columns] button.

← → Jc https://clweb-server/e	n/trackers	P + ≜ ¢ Jc Tra	acker List - JobCente	er ×		× = □ = =
JobCenter CL/Web	[UMS View Mode]			i <u>jobc</u>	enter-manager 🤰	root 🕞 🔺
My Page Jobnetwork Tr	acker Schedule	Machine C	Calendar		Auto Reload	OFF
🖻 🕿 Root	daily_patch			201	5/06/02 00:00 1 da	av 3.
end_of_month_start_job	Name S	tatus 🗸	Comment	Expected Start Time	Expected End Time	Start Time
test_job_list	daily_treatment4	REPARE		2015/06/02 16:15:00	2015/06/02 16:15:00	
I 🖿 UnitJnw	daily_treatment4	ONE[ARCHIVED]		2015/06/02 11:59:21	2015/06/02 11:59:21	2015/06/0
	daily_treatment4	REPARE[HOLD]		2015/06/02 11:31:57	2015/06/02 11:31:57	
	K Search:	Name	V Ign	ore case 🔲 Search usi	ng a regular expression	>
				_		
	Q 50 ✓ I K WAIT:2 RUN:0 DONE			1 - 3 elements are dis	played (total: 3).	×

Figure 5.7. Window where the [Hide/Show Columns] button is selected

Regardless of which column name tab is selected, what is displayed is the same, as long as you are working on a column in the display table.

2. When the list of available columns is displayed, select the check box for each column you want to have displayed other than the default values. In this case, choose [Navigation bar], [Tracker], and then [Job network name] and select [Status Class].

Generative Strest Stres	/en/trackers P → 🔒 C Jc	Tracker List - JobCenter ×	- □ - × ↑ ★ ¤
JobCenter CL/Web	[UMS View Mode]		🚦 jobcenter-manager 💄 root 😱
My Page Jobnetwork	Tracker Schedule Machine	Calendar	Auto Reload OFF
🖻 📂 Root	daily_patch		2015/06/02 00:00 1 day 3
	Name Status	Comment Expecte	d Start Time Expected End Time Start Time
test_job_list	daily_treatment4 DONE[ARCHIVED]	✓ Name	16:15:00 2015/06/02 16:15:00 2015/06/0
Chibhw	daily_treatment4 DONE[ARCHIVED] daily_treatment4 PREPARE[HOLD]	✓ Status	11:59:21 2015/06/02 11:59:21 2015/06/0 11:31:57 2015/06/02 11:31:57
		Status Class	11.31.37 2013/00/02 11.31.37
		Tracker ID	
		Comment	
		 Expected Start Time 	
		Expected End Time	
		Start Time	
		End Time User	
		✓ User ✓ Machine	
	<		× >
	Search: Name	V Ignore case	Search using a regular expression
	Q, 50 ✓	of 1 🕨 🕅 🔂 1 - 3 e	elements are displayed (total: 3).
	WAIT:1 RUN:0 DONE:2 DONE[ERROR]		

Figure 5.8. Display column list screenshot

A column is not displayed when the corresponding check box is not selected.

3. The column tab of a column whose check box is selected is displayed.

← → Jc https://clweb-serv	rer/en/trackers 🏾 🔎 → 🔒 🖒 🕽 🗸	Tracker List - JobCenter ×		- □ × ↑ ★ ¤
JobCenter CL/We	b [UMS View Mode]		🗐 jobcenter-manager 🖁	root
My Page Jobnetwork	Tracker Schedule Machine	Calendar	Auto Reload	OFF
🖻 📂 Root 🗠 陆 daily patch	daily_patch		2015/06/02 00:00 1 da	ау २
end_of_month_start_job	Name Status	Status Class Comment	Expected Start Time Ex	pected End
📂 test_job_list	daily_treatment4 DONE[ARCHIVED]	status-done	2015/06/02 16:15:00 20	15/06/02 16
🛄 🖿 UnitJnw	daily_treatment4 DONE[ARCHIVED]	status-done	2015/06/02 11:59:21 20	15/06/02 11
	daily_treatment4 PREPARE[HOLD]	status-wait	2015/06/02 11:31:57 20	15/06/02 11
	<			>
	Search: Name	V Ignore case	Search using a regular expression	
	Q 50 V H A Page 1 WAIT:1 RUN:0 DONE:2 DONE[ERROR]		ents are displayed (total: 3).	v

Figure 5.9. Display column list result screenshot



The available column tab types differ for each display table.

5.1.5. Setting the Tab Display Order in the Navigation Bar

The files used for setting the tab display order in the navigation bar is the CL/Web configuration file, clweb.conf, which is the same as setting of the used port. For details, refer to Section 3.1.1, "CL/ Web Configuration File (clweb.conf)".

The format and setting items in clweb.conf related with the tab display order in the navigation bar are as follows:

main menu tab order
jnws: 1, trackers: 2, schedules: 3, machines: 4, calendars: 5, mypage: 6, triggers: 7
\$tab_order = "6 1 2 3 7 4 5"

The correspondence between tab names and tab numbers is fixed. The display order of tab names in the navigation bar is the order of tab numbers written in \$tab_order. The default order from first to last is [MyPage], [Jobnetwork], [Tracker], [Schedule], [Trigger], [Machine], and [Calendar]. The screen displayed first after login is the name of the first tab number set in \$tab_order.

If from \$ tab_order erased the number of the target, the tab will not be displayed. (It will be common to all users of the set)

Tab number	Tab name
1	Jobnetwork
2	Tracker
3	Schedule
4	Machine
5	Calendar
6	My Page
7	Trigger

Table 5.2. Parameter setting values in clweb.conf (tag numbers and tag names related with the tab display order in the navigation bar)

Example: If the order of tab numbers set in \$tab_order of the CL/Web configuration file, clweb.conf, is as below, the display of the tab names in the navigation bar is as shown in the figure below. The screen displayed first after login is [Tracker].

main menu tab order
jnws: 1, trackers: 2, schedules: 3, machines: 4, calendars: 5, mypage: 6, triggers: 7
\$tab order = "2 6 1 3 7 5 4"

G S https://dweb-server/en/tr	a Ø ▾ 🚔 ೮ JC Tracker List - JobCenter ×	- □ <mark>- ×</mark> ↑ ★ ☆
JobCenter CL/Web	[UMS View Mode]	🚦 jobcenter-manager 💄 root 🕞
Tracker My Page Jobne	twork Schedule Calendar Machine	Auto Reload OFF
E 🔄 Koot	/	2015/06/17 00:00 1 day 🥄
end_of_month_start_job_	Name Status Comment	F Expected Start Time Expected End Time Start Time
Unitlaw	dally_treatment1 DIALOG	2015/06/02 12:02:27 2015/06/02 12:02:27 2015/06/02 12:02
	Search: Name V	Ignore case Search using a regular expression
	South Name Q So ✓ M ✓ Page ✓ of 1 ✓ Mailtie	 1 - 1 elements are displayed (total: 1).

Figure 5.10. Example of order change in the CL/Web screen navigation bar

5.1.6. My Page Function

The My Page function displays a customized window that contains information that is of interest to the user.

For details of the My Page function, refer to Section 5.10, "My Page Function".

5.2. Accessing the CL/Web Server Using a Browser

This section describes how to access CL/Web Server using a web browser.

- 1. From [Programs] in the [Start] menu, start Internet Explorer.
- 2. If you enter the following URL in the address bar of Internet Explorer, the CL/Web login window is displayed.

https://<CL/Web Server host name or IP address>/

If the TLS (SSL) port number is set to any value other than the default value of 443 (or, when TLS (SSL) is disabled, if the port number is set to other than 80), specify the set port number after the CL/Web Server host name or IP address followed with a colon (:).

Because CL/Web uses a self-signed certificate by default, an error screen for the certificate may be displayed when you access the above URL. In this case, if you continue browsing the website in the error screen, the CL/Web login screen is displayed.

🏉 Certificate	Error: Navigation Blocked - Windows Internet Explorer	
	🖉 https://192.168.232.135/ 🗸 🗸 🖓 Bing	• ٩
🚖 Favorites	🏈 Certificate Error: Navigation Blocked	
8	There is a problem with this website's security certificate.	•
	The security certificate presented by this website was not issued by a trusted certificate authority. The security certificate presented by this website was issued for a different website's address.	
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.	
	We recommend that you close this webpage and do not continue to this website.	
	🥑 Click here to close this webpage.	
	😵 Continue to this website (not recommended).	
	More information	
		-

Figure 5.11. Error screen for the certificate

As for the way to use a prepared certificate, refer to Section 3.1.3, "Setting SSL Signature Certificate".

5.3. Logging In or Out

Connect to the server by using the OS account.



■Before connecting to the server, you need to start JobCenter MG/SV.

5.3.1. Logging In

- 1. If you enter the URL (https://<CL/Web Server host name or IP address>/) in the address bar of the web browser, the [Login] window of CL/Web is displayed.
 - ■The CL/Web display language depends on the language setting of the web browser. The supported languages are Japanese (starting with "ja"), English (starting with "en"), and simplified Chinese (starting with "zh"). If you want to change the display language, change the language setting of the web browser to a language supported by CL/Web.
 - ■If the OS does not have a Chinese font, characters are garbled. Install an appropriate font.
 - ■If you want to change the display language temporarily, you can do it by clicking a language name in the upper right-hand part of the login screen However, if the change is done temporarily and the web browser is once exited, the display language returns to the language set for the web browser.

Note that the version of JobCenter MG/SV needs to match that of CL/Web Server.

For example, you cannot log in to JobCenter MG/SV of the R13.2 version from the CL/ Web Server of the R14.1 version.

C https://clweb-server/en/lo	gin 🔎 🗸	a C Login - JobCenter CL/Web ×	<u>↑</u> ★ 卒
JobCenter CL/Web			<u>English</u> 日本語 简体中文 ∧
	Login		
	Server	Servername	
	💄 User	Username	
	•• Password	Password	
	Mode: 🔍 Edi	t Mode 🔍 View Mode 🔍 Ref Mode	
		Log	in
			~

Figure 5.12. Image of the CL/Web login window

2. Enter [Server], [User], and [Password], and select [Mode].

- ■In [Server], enter the name of the machine on which JobCenter MG/SV is installed. When a domain is used, enter the machine name including the domain.
- ■In [User], enter the name of the user logging in to JobCenter MG/SV.
- ■In [Password], enter the password of the above-mentioned user account.
- ■In [Mode], select either [Edit Mode], [View Mode], or [Ref Mode].

If you are to enable/disable schedules, log in to JobCenter MG/SV by selecting [Edit Mode].

- 3. After entering and selecting all the items, click the [Login] button.
- 4. If the login succeeds, the leftmost tab (initially My Page) is displayed.

bCenter CL/We y Page Jobne		Schedu	ıle	Machine Ca	alendar	jobcenter-i		+
aily batch		ે ૧	≡	🕂 A Syster	n batch		० २	Ξ
Name	Status	Action		Name	Status	Comment	Expected S	r Start Ti
NextSubjob	DONE[ARCHIVED]	Submit		monthly_treatment1			2015/07/02	
daily_treatment1	DONE[ARCHIVED]	Submit	_	NextSubjob	WAIT	_	2015/07/02	
daily_treatment2	DONE[ARCHIVED]	Submit		daily_treatment1	DONE[ARCHIVED]		2015/07/02	
daily_treatment3	DONE[ARCHIVED]	Submit		daily_treatment2	DONE[ARCHIVED		2015/07/02	
daily_treatment4	DONE[ARCHIVED]	Submit		daily_treatment3	DONE[ARCHIVED]		2015/07/02	
subjob	-	Submit		daily_treatment4	DONE[ARCHIVED]		2015/07/02	
				daily_treatment1	ULCOS		2015/06/02	12.02
				10	✓ 🖌 ┥ Pa	ge 1 of 1 🕨 🕽	1 - 7 element	> s are di
Target User:root				Target User:root, F	Period: 1Day(2015/0	7/02 - 2015/07/02)		

Figure 5.13. Window after logging in to CL/Web

5.3.2. Logging Out

1. Click [Logout] button on the title bar.

C Attps://clweb-s	enver/en/inws O - A d in	JNW List - JobCenter CL ×		- □ × ↑★¢
JobCenter CL/V		JAW LIST - JOBCENTER CL X	🚦 j <u>obcenter-manager</u> 💄	_
My Page Jobnetwor	k Tracker Schedule Machine	Calendar		
🗎 🖿 Root DuitJnw	/			٩
	Name	Parent Group	Comment	
	daily_patch	/		
	end_of_month_start_job_list	/		
	monthly_patch	1		
	test_job_list	/		
	<			>
	Search: Name	V 🗌 Ignore case 📃 Searc	h using a regular expression	
	Q, 50 ♥			
			lents are displayed (total: 4).	

Figure 5.14. Image of the JobCenter CL/Web logout window

- 2. When the [Login] window of CL/Web is displayed, the logout process is complete.
- 3. To exit the [Login] window of CL/Web, close the web browser.

You can also log out by entering the URL of the [Login] window directly in the address bar of the web browser and displaying the [Login] window while you are logged in.

5.4. Job Network-related Operations

5.4.1. Viewing a Group

- 1. Expand the tree in the tree view, place the cursor on the desired group name, and click it.
- 2. If there is any job network, shortcut, or group under the target group, the object is displayed in the display table.

				_ D X
JC https://clweb-server/	/en/jnws $ ho - = c$ JC JNV	V List - JobCenter CL ×		↑ ★ ☆
JobCenter CL/Web	[UMS View Mode]		🚦 jobcenter-manager 🎴	root 🕞 🔨
My Page Jobnetwork	Tracker Schedule Machine C	Calendar		
🖹 📂 Root	monthly_patch			٦
end_of_month_start_job	Name	Parent Group	Comment	
└── ► refresh	refresh	/monthly_patch		
test_job_list	i monthly_treatment1	/monthly_patch		
🖿 🖿 UnitJnw				
	<			>
	Search: Name	V Ignore case Searc	h using a regular expression	
	Q, 50 ♥ A A Page 1	of 1 🕨 🗎 🚱 1 - 2 elem	nents are displayed (total: 2).	
				ľ



■Display table list columns

Column name	Description	Remark
Name	Displays the name of the object.	
Туре	Displays the type of the object (job network, group, or shortcut).	Non-default item ^{Note 1}
Parent Group	Displays the name of the group to which the object belongs.	
Comment	Displays the comment for the object.	

Note 1: Non-default items can be added by using the [Hide/Show Columns] button. For details, refer to Section 5.1.4, "Display Table Column Display Function".

If you click a group name and then click another group name before the reading of the display table for the first clicked group is complete, the display table may show the information of the first clicked group, instead of that of the second clicked group. Before clicking a group name in the tree view, make sure that the reading of the display table is complete.

5.4.2. Viewing a Job Network

- 1. Place the cursor on the desired job network name in the display table, and click it or select [Open] in the shortcut menu that appears when you right-click it.
- 2. The page of the selected job network is displayed.

← → JC https://clweb-server	r/en/jnws 🍳 🗕 C	JC JNW List - JobCenter CL ×		- □ -×
JobCenter CL/Web	[UMS View Mode]		jobcenter-manager	
My Page Jobnetwork	Tracker Schedule Machir	ne Calendar		
E Root	daily_patch			٦
🖻 📂 end_of_month_start_job	.▲ Name	Parent Group	Comm	nent
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	daily_treatment1 daily_treatment1 Submit Parameter	l /daily_patch /daily_patch		
	Tracker List	G S https://clweb-server/en/jnws/jnw/daily_treat D =	C JC daily_treatment1 - Job ×	- □ × ↑★¤
		JobCenter CL/Web [UMS View Mode]		nter-manager 💄 root 🕞 🤿
		My Page <u>Jobnetwork</u> Tracker Schedule M daily_treatment1	achine Calendar	
		Flow Parameter Environment variable		
	K Search: Nam	Start JOB JOB 0 portes main coner Portes coner Pro- coner Pro-	Fred at rest at rest	
	Q 50 ✓ K < Page			

Figure 5.16. Job network display

5.4.3. Submitting a Job Network Immediately

There are two methods to submit a job network immediately: by submitting it from the display table and by submitting it from the job network flow window.

The following sections describe these two immediate submission methods.

You cannot submit a job network immediately if [Ref Mode] is selected as the login mode or you do not have the permission to execute a job network for CL/Win.

5.4.3.1. Submitting a Job Network Immediately from the Display Table

Submit a job network and execute it, regardless of the schedule.

- 1. In the display table, place the cursor on the name of the job network you want to execute and then right-click the mouse.
- 2. Select [Submit] from the shortcut menu that appears when you right-click.

C Ic https://clweb-server	r/en/jnws	- □ ×
JobCenter CL/Web	[UMS View Mode] iobcenter-manager	💄 <u>root</u> 🕞 🔨
My Page Jobnetwork	Tracker Schedule Machine Calendar	
🖻 🔁 Root	daily_patch	٦
→ end_of_month_start_job	Name Parent Group Comm	ent
► refresh	daily_treatment1 /daily_patch	
└── 📂 test_job_list └── 🖿 UnitJnw	daily_treatr Open /daily_patch	
Chibhw	Parameter	
	Tracker List	
	<	>
	Search: Name V I Ignore case Search using a regular expression	
	Q 50 ✓ Page 1 of 1 ▶ ▶ 1 - 2 elements are displayed (total: 2).	~

Figure 5.17. Window where [Submit] is selected in the job network display table

- 3. The [Submit JNW] dialog box opens.
- 4. Click the [OK] button.

Submit JNW
Submission Time
Date 2015/6/2 Time 10 : 30 :
Parameter
Job Parameter
Comment
Set in Advance ————
● HOLD ● SKIP ● OFF
Open Job Network Tracker Window
ОК

Figure 5.18. [Submit JNW] dialog box

5. When the following message appears in the [JNW Control] dialog box, the process is complete.

6. Click the [OK] button.



Figure 5.19. Success of job network submission

5.4.3.2. Submitting a Job Network Immediately from the Job Network Flow Window

Submit a job network and execute it, regardless of the schedule.

- 1. Place the cursor on the name of the job network you want to execute and then click it. The job network flow window is displayed.
- 2. Place the cursor in the flow display area of the job network flow window, and right-click the mouse.
- 3. Select [Submit] from the shortcut menu that appears when you right-click.

JC https:,	// clweb-server /en/jnws/jnw/c	daily_treal 🔎 → 🔒 🖒 ;	I C daily_treatment1 - Job ×		n ★ 3
JobCenter	CL/Web [UMS View M	lode]		jobcenter-manager	💄 <u>root</u> 🕞
My Page Job	network Tracker S	Schedule Machine	Calendar		
daily_treatr	ment1				
Flow Pa	arameter Environment	variable			
(Start - J		0	JOB End		
	or_tre main tment		af_tre atment		
	Submit				
	Tracker List	er pr_tre			
		atment			

Figure 5.20. Window where [Submit] is selected in the job network display window

The rest of the procedure is the same as step 4 and subsequent steps described in Section 5.4.3.1, "Submitting a Job Network Immediately from the Display Table".

5.4.3.3. Setting Immediate Submission

The immediate submission settings to be specified in the [Submit JNW] dialog box are as follows:

■Submission Time

Set the submission time of the job network. If you do not select this check box, the job network is submitted and executed immediately.

If you select the check box, you can have the job network executed at a specified time.

■Job Parameter

Set the parameter to be passed to the script of each unit job of the job network. The character string specified here is set in each unit job's environment variable "NSJNW_PARAM" and passed to the script of each unit job.

If the default value and description of [Job Parameter] are already set in the job network parameter, the value and description are displayed as initial values. If the job network is submitted with the initial values cleared, the default value of [Job Parameter] also takes effect.

In the text input area, up to 128 characters can be entered.



For details about the job parameter for immediate submission, refer to "Job parameter" in <Basic Guide>Section 3.2.1, "To Submit a Job Network Immediately".

Comment

A comment on immediate submission can be specified. If a comment is already set, the comment is changed only when a tracker is submitted immediately.

In the text input area, up to 128 Japanese, alphanumeric, and Kana (double-byte and single-byte) characters can be entered (different types of characters may be mixed).

■Set in Advance

You can set the job network status to HOLD or SKIP in advance.

HOLD	The status of the job network is set to HOLD when it is submitted.
SKIP	The status of the job network is set to SKIP when it is submitted.
OFF	The status of the job network is not set to HOLD or SKIP when it is submitted.

■Open Job Network Tracker Window

If you select this check box, the job network tracker window is set to open after immediate submission.



Note on immediate submission

If the destination queue is not specified in the job network parameter or unit job parameter, the queue set in [Default Submission Queue name] by selecting [User Config] - [Base Config] - [Default Job Network parameter] of JobCenter CL/Win is automatically used. If the default queue is set, note that the default value is set to 1 as the number of job requests that can be executed concurrently in the guibs_1 batch queue where job requests are actually executed.

5.5. Tracker-related Operations

After a job network is submitted or automatic execution is registered, the execution state of that job network can be changed or monitored and the result can be referenced using a list or window called a tracker.

A tracker displays the processes of the executed job network and their results.

The job statuses are distinguished by colors and labels, enabling errors to be recognized readily. The job status colors are common to the Job Network Tracker icons as well as to the Tracker List text mode and graphic mode. This makes the job statuses easy to identify.

The colors used to represent the job statuses are those that are saved as the defaults in [Color Config] of [System Config] of CL/Win. For details about how to set colors, refer to in <Environment Guide>Section 6.6, "Changing Color Settings".

5.5.1. Viewing Trackers

Perform operations such as listing trackers and setting the display period.

5.5.1.1. Listing Trackers

- 1. Select [Tracker] on the navigation bar.
- 2. Expand the tree view, and click the name of the group you want to view.

If you select a group name, trackers are displayed in the display table.

→ Jc https://clweb-server	/en/trackers	C Tracker List - JobC	enter ×		× □ − ×
JobCenter CL/Web	[UMS View Mode]		iobce	enter-manager 💄	
My Page Jobnetwork	Fracker Schedule Ma	achine Calendar		<u>Auto Reload</u>	OFF
🖻 📚 Root	daily_patch		201	5/06/02 00:00 1 da	v २
end_of_month_start_job	Name Status	Comment	• Expected Start Time	Expected End Time	Start Tim
test_job_list	daily_treatment2 RUN[WA]	тј	2015/06/02 11:08:03	2015/06/02 11:08:03	2015/06/0
DinitJnw	daily_treatment1 DONE[ER	RORJ	2015/06/02 11:03:57	2015/06/02 11:03:57	2015/06/0
	daily_treatment2 DONE[AR	CHIVED]	2015/06/02 10:50:05	2015/06/02 10:50:05	2015/06/0
	daily_treatment1 DONE[AR	CHIVED]	2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/0
	۲ Search:	Name	Ignore case 🔲 Search usi	no a regular expression	->
		Page 1 of 1 D N		played (total: 4).	

Figure 5.21. Tracker display in the tracker display table

■Tracker list columns

Column name	Description	Remark
Name	Displays the job network name.	

Column name	Description	Remark
Group	Displays the name of the group to which the tracker belongs.	
Status	Displays the execution status of the job network.	
Status Class	Displays the status in English.	Non-default column ^{Note} 1
Tracker ID	Displays the tracker ID.	Non-default column ^{Note} 1
Comment	Displays the comment specified for the job network.	
Expected Start Time	Displays the expected start time registered in the schedule.	
Expected End Time	Displays the expected end time calculated from the settings in the parameter windows of the job network and unit job.	
Start Time	Displays the time when the job network actually started.	
End Time	Displays the time when the job network actually ended.	
User	Displays the user who executed the job network.	
Machine	Displays the name of the machine on which the job network was executed.	



If you click a group name and then click another group name before the reading of the display table for the first clicked group is complete, the display table may show the information of the first clicked group, instead of that of the second clicked group. Before clicking a group name in the tree view, make sure that the reading of the display table is complete.

5.5.1.2. Displaying the Tracker List with a Period Specified

1. Click the [Settings] icon at the upper right of the display table, with trackers displayed.

						_ 🗆 X
(-) (-) JC https://clweb-serv	er/en/trackers	ר <mark>⊃נ</mark> ⊅≁≙¢ J c ⊺	fracker List - JobCen	ter ×		<u> </u>
JobCenter CL/We	b [UMS View Mode]			🚦 jobce	enter-manager 🎴	root 🕞 🗸
My Page Jobnetwork	Tracker Sched	ule Machine	Calendar		Auto Reload	OFF
Root	daily_patcl	า		201	5/06/02 00:00 1 da	y 🥄
end_of_month_start_job	Name	Status	Comment	▼ Expected Start Time	Expected End Time	Start Tim
🖙 test_job_list	daily_treatment2	RUN[WAIT]		2015/06/02 11:08:03	2015/06/02 11:08:03	2015/06/0
🖿 UnitJnw	daily_treatment1	DONE[ERROR]		2015/06/02 11:03:57	2015/06/02 11:03:57	2015/06/0
	daily_treatment2	DONE[ARCHIVED]		2015/06/02 10:50:05	2015/06/02 10:50:05	2015/06/0
	daily_treatment1	DONE[ARCHIVED]		2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/0
	K Search:	Name		nore case 🔳 Search usi	ng a regular expression	->
				1 - 4 elements are dis		
		DNE:2 DONE[ERROR]:		1 - 4 elements are dis	played (total: 4).	~

Figure 5.22. Settings

- 2. The [Settings] dialog box opens.
- 3. Set [Period] and [Display Options].

Set	×
Display Settings —	7
Period	
Start 2015/06/02 00 ♥ : Date: 00 ♥ ▶	
Period: 1 day	
Display Options	
Include Sub groups Include Sub Job network	
Filter: None Detail	
Display mode	
• Normal • Gantt chart	
Apply Cancel	

Figure 5.23. [Set] dialog box

The items to be set in [Display Settings] are as follows:

Display Settings

■Start Date

Specify the start date (year/month/day hour:minute) of the Tracker List display period.

Period

Specify the period for which the Tracker List is displayed.

Set the value and unit of the period. You can set 1 to 59 minutes, 1 to 23 hours, 1 to 7 days, 1 to 5 weeks, and 1 to 3 months.

You can move the start date backward and forward by the unit of the period, using the \leftarrow and \rightarrow buttons in the Start day section.

■Filter

From the pull-down menu, select the item to be used for filtering.

The available filtering items are as follows: None, WARNING/ERROR, STOP(ERROR), RUNNING, HOLD, SCHEDULED, and User Defined Filter 1 to 3.

■Display mode

Set the display mode of trackers.

Select [Normal] or [Gantt chart].

For the Gantt chart display of trackers, refer to Section 5.5.4, "Displaying Trackers in a Gantt Chart".

■Setting a user-defined filter

For the filtering, set the trackers to be displayed and the display conditions such as SCHEDULED, RUNNING, and STOP.

1. Selecting "User Defined Filter" from the pull-down menu list activates the [Detail] button to the right of the list. Click the [Detail] button.

Set	×
Display Settings ————————————————————————————————————]
Start	
Display Options Include Sub groups Include Sub Job network	
Filter: None Detail Display mode O Normal O Gantt chart	
Apply Cancel	

Figure 5.24. [Detail] button

2. The [Editing a Filter] dialog box opens.

User Defined Filter1 - Referencing a Filter	
Display Archived Tracker Switch	
Display Fileter	
	OK Cancel

Figure 5.25. [Editing a Filter] dialog box

- 3. Set the display target and conditions.
- 4. When done with the settings, click the [OK] button.
- 5. Click [Apply] in the [Set] dialog box.
- 6. The settings are applied to the tracker display table.

The settings of a user-defined filter are saved as a cookie in the web browser.

5.5.1.3. Displaying a Part

1. If you click a job network name in the display table, the job network flow of the tracker is displayed.

By default, the [Flow] tab is selected.



Figure 5.26. Job flow display window



If you place the cursor on the [Start] or [End] icon, the tracker ID and state are displayed as shown in Figure 5.26, "Job flow display window". If you place the cursor on a part icon, the part name and state are displayed.

2. If you click a part in the flow, the detailed information about that part is displayed.



Figure 5.27. Detailed information window of a part

When the part is a unit job or custom job, the [Stdout], [Stderr], and [Script] tabs can be selected in addition to the [Detailed Information] tab. As for ERP, BI, PC, and WOBS jobs, the tabs that respectively display unique information can be selected.

3. If you select the [List of Parts] tab, the part list is displayed.

JobCenter CL	JobCenter CL/Web [UMS View Mode]							
My Page Jobnetv	work Tracker	Schedule Mac	hine Calendar		<u>Auto F</u>	Reload OFF		
daily_treatme	nt1 (2015/06	/02 10:49:38)				Mail		
Flow List of	Parts Detail	Environment Var	iable Log					
Part Name	Type Name	Status	Expected Start Time	Expected End Time	Start Time	End Time		
af_treatment	Unit job	DONE	2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/02 10:49:39	2015/06/02 10:4		
main	Unit job	DONE	2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/02 10:49:39	2015/06/02 10:4		
pr_treatment	Unit job	DONE	2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/02 10:4		
pr_treatment (C_pr_t	Continuity	SKIP						
						_		
						_		
						_		
						_		
						_		
						_		
						_		
						_		
						_		
<						>		
Search:	Part Name	V Ignore	case 📃 Search using a	regular expression				

Figure 5.28. Part list window



Selecting a part name displays the same window that you see when you click a part name in the flow as described above.

■Columns in the [List of Parts] tab

Column name	Description	Remark
Part Name	Displays the part name.	
Туре	Displays the type of the part.	Non-default column ^{Note 1}
Type Name	Displays the type name of the part.	
Status	Refer to Section 5.5.1.1, "Listing Trackers".	
Status Class		Non-default column ^{Note 1}
Expected Start Time		
Expected End Time		
Start Time		
End Time		



Note 1: The non-default column can be added by using the [Hide/Show Columns] button. For details, refer to Section 5.1.4, "Display Table Column Display Function".



If you click a group name and then click another group name before the reading of the display table for the first clicked group is complete, the display table may show the information of the first clicked group, instead of that of the second clicked group. Before clicking a group name in the tree view, make sure that the reading of the display table is complete.

5.5.2. Operating Trackers

By using a job network tracker, you can not only monitor and control the execution of a job but also perform other operations such as forcing a tracker to be executed and changing a scheduled submission time.



You cannot operate trackers if [Ref Mode] is selected as the login mode or you do not have the permission to operate trackers for CL/Win.

5.5.2.1. Operating a Job Network Tracker

1. Expand the tree in the tree view in the tracker display window, select the group name of the job network you want to operate and then click it.


Figure 5.29. Window where a group name is selected

2. Select the name of the job network tracker you want to operate, and right-click it.

3. The shortcut menu lists the available operations.

JobCenter CL/Web [U		🚦 jobce	enter-manager 🎴	root 🕞		
My Page Jobnetwork Tra	cker Sch	edule Machine	Calendar		<u>Auto Reload</u>	OFF
🖹 📚 Root	daily_pat	tch		201	5/06/02 00:00 1 da	y २
end_of_month_start_jot	Name	Status	Comment	Expected Start Time	Expected End Time	Start Tim
test_job_list	daily_treatmen	PUNEWATER	`	2015/06/02 11:08:03	2015/06/02 11:08:03	2015/06/0
🖿 UnitJnw	daily_treatm	Open		2015/06/02 11:03:57	2015/06/02 11:03:57	2015/06/0
	aily_treatm	Skip		2015/06/02 10:50:05	2015/06/02 10:50:05	2015/06/0
	caily_treatm	Release skip		2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/0
		Hold				
		Release hold				
		Forced Stop				
		Forced Start				
		Rerun				
		Rerun from Error Point				
		Rerun from the Next (Skip Error)				
	<	Delete				>
	Search:	Archive	✓ I g	nore case 🔲 Search usi	ng a regular expression	
	Q 50	Change Submission		1 - 4 elements are dis	played (total: 4)	
		Time	STOP:0 TOTAL:4			
		Prepare		=		

Figure 5.30. Shortcut menu screenshot

Operations on the shortcut menu which appears by right-clicking are as follows:

■Open

Browses the job network tracker.

■Skip

Skips the job network tracker.

■Release skip

Cancels the scheduled skipping that is set with the "Skip" menu item.

∎Hold

Holds the job network tracker.

■Release hold

Cancels the scheduled hold that is set with the [Hold] menu.

■Forced Stop

Stops the execution of a running job network. The job request process in the job network is stopped forcibly.

■Forced Start

Starts the execution of a waiting job network forcibly.

■Rerun

Executes a job network tracker immediately whose status is other than WAIT and PREPARE.

■Rerun from Error Point

Reruns a job network whose status is STOP(ERROR) from the error location.

■Rerun from the Next (Skip Error)

Skips the error location for a job network whose status is STOP(ERROR).

■Delete

Deletes the job network tracker.

Archive

Archives the job network tracker. Once the job network tracker is archived, only [Open] and [Delete] can be performed. For information about archiving, refer to in <Basic Guide>Section 8.16.12, "Manually Archiving the Tracker".

■Change Submission Time

The expected execution time of a job network tracker whose status is WAIT or PREPARE can be changed.

Set						×
s	ubmission Time —					
Day	2015/06/02	Time	16 🖌 :	15 🚩		
				Ар	ply Ca	incel



In the [Change Submission Time] dialog box, set the following:

Day	If you click the field where the date is displayed, a calendar appears. By selecting < and >, a calendar for the past one year and next one year can be displayed.
Time	Select the time from the pull-down menu. The available range is from 00:00 to 23:59.

■Prepare

The WAIT state of a job network tracker can be changed to PREPARE.

The grayed-out items in the shortcut menu are operations that are not available.

5.5.2.2. Operating a Unit Job Tracker Icon

- 1. Select [Tracker] on the navigation bar, and click a job network name.
- 2. Place the cursor on the unit job icon you want to operate and then right-click it.
- 3. The shortcut menu lists the available operations.



Figure 5.32. Detailed information window of a unit job tracker part

Operations on the shortcut menu which appears by right-clicking are as follows. For details, refer to in <Basic Guide>Section 8.17.1, "Operating a Unit Job Tracker Icon".

- ■Open
- ■Status
- ■Skip
- ■Release skip
- ∎Hold

- ■Release hold
- ■Suspend
- ■Release Suspend
- ■Forced Stop
- ■Forced Start
- Rerun
- ■Rerun from Checkpoint
- ■Release Control
- ■Status Done



[Open] displays detailed information of the part. [Status] displays the status of the part in a dialog box.

5.5.2.3. Operating a Sub Job Network Tracker Icon

- 1. Select a sub job network icon in a job network tracker, and right-click it.
- 2. The shortcut menu lists the available operations.

					_ – ×
(←)∋	https://clweb-serv	er/en/trackers/tracker/dail 🔎 👻 🔒 🖒	JC daily_treatment4 (2015/ ×		↑ ★ ₩
JobCen	ter CL/We	b [UMS Normal Mode]		🗐 jobcenter-manager 🥈	root 🕞
My Page	Jobnetwork	Tracker Schedule Machine	Calendar	Auto Reload	OFF
Piy Paye	JODHELWORK		Calendar		
daily t	reatment4 (2	2015/06/02 11:59:21)			Mail
I ——					
Flow	List of Parts	Detail Environment Variable	Log		
Start	JOB JOB1	Open			
	3081	Status			
		Skip			
		Release skip			
		Hold Release hold			
		Forced Stop Forced Start			
		Rerun			
		Rerun from Error			
		Point			
		Rerun from the Next (Skip Error)			

Figure 5.33. Detailed information window of a sub job tracker part

Operations on the shortcut menu which appears by right-clicking are as follows. For details, refer to in <Basic Guide>Section 8.18, "Operating a Sub Job Network Tracker".

■Open

∎Status

■Skip

- ■Release skip
- ∎Hold
- ■Release hold
- ■Forced Stop
- ■Forced Start
- Rerun
- ■Rerun from Error Point
- ■Rerun from the Next (Skip Error)



[Open] displays the flow of the sub job network trackers. [Status] displays the status of the part in a dialog box.

5.5.2.4. Operating a Dialog Tracker Icon

- 1. Select a dialog icon in a job network tracker, and right-click it.
- 2. The shortcut menu lists the available operations.

(←)∋□	https://clweb-serv	er /en/tracker	s/tracker/dail 🔎 🗕 🖒 J C	daily_treatment1 (2015/ ×		↑ ★ ₽
JobCen	ter CL/We	b [UMS Nor	mal Mode]		jobcenter-manag	jer 💄 root 🕞
My Page	Jobnetwork	Tracker	Schedule Machine	Calendar	<u>Auto</u>	Reload OFF
daily_t	reatment1 (2	2015/06/	02 12:02:27)			Mail
Flow	List of Parts	Detail	Environment Variable	Log		
Start		JOB JOB2	DIA Status Skip Release skip Ok Error			
			Rerun Status Done			

Figure 5.34. Detailed information window of a dialog tracker part

Operations on the shortcut menu which appears by right-clicking are as follows. For details, refer to in <Basic Guide>Section 8.19, "Responding to a Dialog (Deciding a completion status)".

■Open

∎Status

■Skip

■Release skip

∎Ok

Error

Rerun

■Status Done



[Open] displays detailed information of the part. [Status] displays the status of the part in a dialog box.

5.5.2.5. Operating a Waiting Part or Event Transmission/Reception Icon

- 1. Select a job waiting part icon, and right-click it.
- 2. The shortcut menu lists the available operations.

	_ _ ×
(←) → JC https://dweb-server/en/trackers/tracker/mo	
JobCenter CL/Web [UMS Normal Mode]	目 j <u>obcenter-manager</u> 💄 <u>root</u> 🕞
My Page Jobnetwork <u>Tracker</u> Schedule Machine Calendar	Auto Reload OFF
monthly_treatment1 (2015/06/02 12:18:13)	Mail
Flow List of Parts Detail Environment Variable Log	
Start JOB JOB JOB End	
pr_tre treatm treatm af_tre atment ent1 ent2 atment	
Open	
allo Status	
Skip	
Release skip	
Rerun Status Done	

Figure 5.35. Detailed information window of a job waiting part

Operations on the shortcut menu which appears by right-clicking are as follows. For details, refer to in <Basic Guide>Section 8.20, "Skipping Waiting Part and Event Transmission/Reception Jobs".

Table 5.3. List of the operations available for waiting part and event transmission/reception trackers

Waiting part tracker and event reception/ transmission tracker	Operation available from the shortcut menu
Job Waiting	■ Open
	■Status
	■Skip
	■Release skip
	■Rerun

	■Status Done
JNW Waiting	■Open
	■Status
	■Skip
	■Release skip
	■Rerun
	■Status Done
Timer Waiting	■ Open
	■Status
	■Skip
	■Release skip
	Rerun
	■Status Done
File Waiting	■ Open
	■Status
	■Skip
	■Release skip
	■Rerun
	■Status Done
Event Transmission	■Open
	■Status
	■Skip
	■Release skip
	■Hold
	■Release hold
	■Forced Stop
	■Forced Start
	■Rerun
	■Status Done
Event Reception	■Open
	■Status
	■Skip



[Open] displays detailed information of the part. [Status] displays the status of the part in a dialog box.

5.5.3. Reloading the Tracker Window Automatically

The content displayed in the tracker window is reloaded periodically. Automatic reloading is enabled in the tracker list window (including the case when a specific JNW is specified) and the tracker information window (flow, list of parts, details, environment variable, log).

5.5.3.1. Enabling Automatic Reloading

In order to reload the contents automatically, change automatic reload slide bar from OFF to ON. (If you slide the bar to the right while clicking the mouse, it switches to ON.)



Figure 5.36. Change to automatic reload ON state

If the auto-reload slide bar is turned ON, the automatic reload is done.

5.5.3.2. Initial setting of the automatic reload

You can set the initial value of the automatic reload in the configuration file(clweb.conf) for a CL / Web server. The initial value of the automatic reload you have set, are common to all users.

The format and item of the clweb.conf file that are related to the initial setting of the automatic reload are as follows.

Parameter	Description	Туре	Value
	Set the initial state of the automatic reload slide bar.		false (default value)

The status of the automatic reload slide bar is determined by the initial value set in the clweb.conf file when access is made for the first time.

If you change the status of the automatic reload slide bar after that, the new status is stored in a browser cookie. If a status is stored in a browser cookie, the status of the slide bar is determined by the information stored in the cookie without referencing the value set in the clweb.conf file.

■First access (browser cookie has no data)

-> The status of the automatic reload slide bar is determined by the initial value set in the clweb.conf file.

■If the status of the automatic reload slide bar is changed to ON

-> "Automatic reload slide bar: ON" is recorded in the cookie, and the automatic reload is performed.

■If the status of the automatic reload slide bar is changed to OFF

-> "Automatic reload slide bar: OFF" is recorded in the cookie, and the automatic reload is not performed.

If the browser cookie is cleared or expires, the status of the automatic reload slide bar is determined by the setting in clweb.conf.

The browser cookie expires one year after the status of the automatic reload slide bar is changed.

5.5.3.3. Setting Method of Automatic Reload Interval

Set the interval of automatic reloading from [Auto Reload Setting] dialog box after clicking the [Auto Reload] link to the left of automatic reload slide bar. You can select the interval from the 5 options, 1 minute, 2 minutes, 3 minutes, 4 minutes, and 5 minutes.



Figure 5.37. [Auto Reload Setting] dialog box

5.5.4. Displaying Trackers in a Gantt Chart

This section describes how to display the tracker list in a Gantt chart.

5.5.4.1. Displaying a Tracker List in a Gantt Chart

1. While the tracker list is displayed, click [Set] at the upper right corner of the display table.

Generative Strest Stres	en/trackers	ନ≁≜¢ jc1	īracker List - JobCente	er X		- □ × ↑★₽
JobCenter CL/Web	[UMS View Mode]			🚦 jobo	enter-manager 🙎	root 🕞 🔺
My Page Jobnetwork T	racker Sched	ule Machine	Calendar		Auto Reload	OFF
🖻 📚 Root	daily_patc	h		201	5/06/02 00:00 1 da	y 3
end_of_month_start_job	Name	Status	Comment	Fxpected Start Time	Expected End Time	Start Tim
test_job_list	daily_treatment2	RUN[WAIT]		2015/06/02 11:08:03	2015/06/02 11:08:03	2015/06/0
Dist ution	daily_treatment1	DONE[ERROR]		2015/06/02 11:03:57	2015/06/02 11:03:57	2015/06/0
	daily_treatment2	DONE[ARCHIVED]		2015/06/02 10:50:05	2015/06/02 10:50:05	2015/06/0
	daily_treatment1	DONE[ARCHIVED]		2015/06/02 10:49:38	2015/06/02 10:49:38	2015/06/0
	٢					>
	Search:	Name	V Ign	ore case 📃 Search usi	ng a regular expression	
		Page 1 DNE:2 DONE[ERROR]:1		1 - 4 elements are di	splayed (total: 4).	
>		Enterland Street				

Figure 5.38. [Set] button

- 2. The [Set] dialog box opens.
- 3. Select [Gantt chart] as the display mode and click [Apply].

Set
Display Settings Period Start Date: OO Period: 1 day Display Options Include Sub groups Include Sub groups Include Sub Job network Filter: None Display mode Normal Gantt chart
Apply Cancel

Figure 5.39. Switch to [Gantt chart] in the [Set] dialog box

4. The Gantt chart of the tracker list is displayed.

← → Jc https://clweb-server	/en/trackers	D-≞¢ Jc	Tracker	List - Jo	bCente	er ×								-	× ★
JobCenter CL/Web	[UMS Normal Mode]							🗏 jo	bcent	ter-r	nar	nager	_ 1	root	
My Page Jobnetwork	Tracker Schedule	Machine	Calen	dar							Au	<u>ıto Re</u> l	oad		OFF
E Root	daily_patch							2	015/	06/0)2 ()	0:00	1 day	٩	
 monthly_patch test_job_list UnitInw 										015 6					
(1).		(2)							Т	2 Tue					
(+)	daily_treatment4		0 1	2 3	4 5	6	7 8	9	10 11	12	13	14 15	5 16 : 	17 18	1
	daily_treatment1 daily_treatment4 daily_treatment1														
	daily_treatment4 daily_treatment2														
	daily_treatment1 daily_treatment2								_						
(3)	daily_treatment1									_					
	+ 1 of 1 WAIT:2 RUN:2 DONE:3	+ • • •			AL 9	1-90		s are di	+···		al: 9]).	5)		
< >		(6	5)	(4)										

Figure 5.40. Displaying a Gantt chart of trackers

In a Gantt chart, the horizontal axis shows time and the vertical axis shows the tracker name, and the start time and the end time of each tracker are shown as a horizontal bar.

■Gantt chart columns

Column name	Description	Remark
(1) Tracker name	Displays the tracker names.	
	Clicking a tracker name displays its tracker flow screen.	
	Right-clicking a tracker name displays the shortcut menu for operating the tracker.	
(2) Display table	Displays the start time and the end time of each tracker as a horizontal bar.	
	Narrow horizontal bars show planned start/end time. Wide horizontal bars show actual start/end time.	
	The color of wide horizontal bar corresponds to the tracker's status.	
(3) Page switching button	Switches the pages when all the trackers cannot be contained in one screen.	

Column name	Description	Remark
(4) Slide bar	Use this bar to scroll the Gantt chart in the horizontal-axis direction.	
(5) Scale change button	Use this button to change the unit of the horizontal axis of the Gantt chart. The unit of display can be one of the following: 1 minute, 15 minutes, 30 minutes, 1 hour, 6 hours, 12 hours, 1 day, 1 month	
(6) Statistic information bar	Displays the number of trackers for each tracker state (WAIT, RUN, etc.).	

5.6. Schedule-related Operations

You can view lists or definitions of schedules. In addition, you can perform operation of enabling and disabling schedules.

5.6.1. Viewing a List of Schedules

- 1. Select [Schedule] on the navigation bar.
- 2. Expand the tree in the tree view, place the cursor on the desired group name, and click it.
- 3. If there is any schedule or group under the target group, the object is displayed in the display table.

JC https://clweb-se	erver/en/schedules) → 🔒 🖒 JC Sch	nedule List - JobCente ×		- □ × ↑★ ‡
JobCenter CL/W	eb [UMS Normal Mode]		E	jobcenter-manager	e root 🕞 🗖
My Page Jobnetwork	Tracker Schedule	Machine C	alendar		
E Root	daily_sch				٦
🖻 📂 daily sch	Name	Туре	Enable/Disable Comment	Parent Group	
🋄 📂 backup	backup	Group		/daily_sch	
	🚱 daily_batch	Schedule	Enable	/daily_sch	
	Search:	Name Page 1	✓ ■ Ignore case ■ Search of 1 ▶ ▶ ↔ 1 - 2 elemen		



■Display table list columns

Column name	Description	Remark
Name	Displays the name of the object.	
Туре	Displays the type of the object (schedule or group).	
Enable/Disable	Displays whether the schedule is enabled or disabled.	
Comment	Displays the comment specified for the object.	
Parent Group	Displays the name of the group to which the object belongs.	

5.6.2. Viewing the Schedule Definition

- 1. In the schedule list display window, place the cursor on the name of the schedule whose definition you want to view, and then click it.
- 2. The definition of the selected schedule is displayed.



Figure 5.42. Schedule definition display window

■Schedule definition columns

Column name	Description	Remark
(1) Schedule name	Displays the name of the viewed schedule definition.	
(2) Monthly operating day schedule	Displays the schedule execution dates for each month. The dates with green background are execution dates.	
(3) Execution start time	By clicking a schedule execution date, the list of schedule execution start time on that date is displayed.	
(4) Calendar name	Displays the name of the calendar that is applied to the schedule.	
(5) Time zone	Displays the specified time zone.	
(6) Daylight savings time offset	Displays whether the daylight savings time (summer time) is set.	
(7) Rule	Displays the rule of schedule definition. The displayed items are [+/-] (registration/exclusion), [Type], [Break shift], [Relative], [Time], and [Term].	

5.6.3. Viewing the Linking JNW

1. The linking JNW set in the schedule definition is displayed. Click the [Linking JNW] tab in the schedule definition information screen.



Figure 5.43. Clicking the [Linking JNW] Tab

2. The list of the JNWs linked with the schedule is displayed.



Figure 5.44. Linking JNW window

5.6.4. Enabling or Disabling the Schedule

This section describes how to enable or disable schedules.

Schedule enabling and disabling can be done either for each schedule or for each schedule group.



You need to select [Edit Mode] as the login mode.

If you do not have the permission to edit the user's own job network for CL/Win, you cannot enable or disable schedules.

5.6.4.1. Enabling/Disabling Schedules

This section describes how to enable or disable each schedule individually.

- 1. In the display table, place the cursor on the name of the schedule you want to enable (or disable) and right-click it.
- 2. Select [Enable] (or [Disable]) in the shortcut menu.

				_	
(-) JC https://clweb-server/e	en/schedules 🔎 🗸	F 🗎 🖒 🕽 JC Sche	edule List - JobCente ×		<u> </u>
JobCenter CL/Web	[UMS Normal Mode]			jobcenter-manager	👱 root 🕞 🔺
My Page Jobnetwork Tr	racker <u>Schedule</u>	Machine Ca	lendar		
Ė- ► Root ► ► monthly_sch	daily_sch				٦
🖻 📂 daily sch	Name	Туре	Enable/Disable Comment	Parent Group	
📂 backup	backup	Group		/daily_sch	
	Gaily hatch	Schedule	Enable	/daily_sch	
	Open				
	Enable				
	Disable				
	Search:	Name	🗸 📃 Ignore case 📃 Se	arch using a regular expression	
				ments are displayed (total: 2).	
		Page 1 of	1 • 1 - 2 ele	ments are displayed (total: 2).	¥

Figure 5.45. Shortcut menu screenshot

- 3. The [Schedule Operation] dialog box opens.
- 4. Click the [OK] button.

Schedule Operation	×
Whether to Submit Schedule(daily_batch)'s Disable?	
	⊘ок

Figure 5.46. [Schedule Operation] dialog box

- 5. If the following message is output in the [Schedule Operation] dialog box, the operation is completed.
- 6. Click the [OK] button.

Schedule Operation	
Schedule(daily_batch)'s Disable succeed.	
	⊘ок

Figure 5.47. Success of operating schedule

5.6.4.2. Enabling/Disabling Schedule Groups

This section describes how to enable or disable all the schedules under the group.

- 1. In the display table, place the cursor on the name of the schedule group you want to enable (or disable) and right-click it.
- 2. Select [Enable] (or [Disable]) in the shortcut menu.

JobCenter CL/Wel		J.⊂ D. T.	Schedule List - JobCente ×	jobcenter-manager	th ★ ∰
	Tracker <u>Schedule</u>	Machine	Calendar		
🖻 陆 Root	daily_sch				٦
🖻 📂 daily sch	Name	Туре	Enable/Disable Comment	Parent Group	
🔤 backup	backu-			/daily_sch	
	daily_ Open Enable		Enable	/daily_sch	_
	Disable				
	Search:	Name	V Ignore case Sea	rch using a regular expression	_
backup		Page 1	of 1 🕨 🕅 😳 1 - 2 eler	nents are displayed (total: 2).	>

Figure 5.48. Shortcut menu screenshot

- 3. The [Group Operation] dialog box opens.
- 4. Click the [OK] button.

Group Operation	×
Whether to Submit Group(Root/daily_sch/backup)'s Enable?	
	⊘ОК

Figure 5.49. [Group Operation] dialog box

- 5. If the following message is output in the [Group Operation] dialog box, the operation is completed.
- 6. Click the [OK] button.

Group Operation	×
Group(Root/daily_sch/backup)'s Enable succeed.	
	⊘ок

Figure 5.50. Success of enabling schedules under the group

5.7. Trigger-related Operations

You can view lists or definitions of triggers. In addition, you can perform operation of enabling and disabling triggers.

5.7.1. Viewing a List of Triggers

- 1. Select [Trigger] on the navigation bar.
- 2. The trigger list appears in the display table.

JobCenter CL/W	eb [EUI No	rmal Mode]				🚦 jcserver3.jcg.local 💄 use	er01 🕞
My Page Jobnetwork	Tracker	Schedule	Trigger	Machine	Calendar		
Trigger List							
Name	Enable/Disa	bl Comment					
Application_logcheck	Disable						
difficulty_logcheck	Enable						
web-server_logcheck	Enable						
_							
_							
_							
_							
_							
_							
_							
_							
Search:	Name	🗕 📃 Ig	nore case 📃	Search using a	a regular express	sion	
Q, 50 → K ◀ F	Page 1	of 1 🕨 🕨		ements are dis	played (total: 3)		

Figure 5.51. Trigger list screen

■Display table list columns

Column name	Description	Remark
Name	Displays the name of the trigger.	
Enabled/Disabled	Displays whether the trigger is enabled or disabled.	
Comment	Displays the comment for the object.	

5.7.2. Viewing the Trigger Definition

- 1. In the trigger list display window, place the cursor on the name of the trigger whose definition you want to view, and then click it.
- 2. The definition of the selected trigger is displayed.

JobCenter CL/Web [EUI Normal Mode]			j cserver3.jcg.local	La <u>user01</u>	•
My Pape Jobnetwork Tracker Schedule T	rigger Machine	Calendar			
difficulty_logcheck					
Trigger Linking JNW					
2					
Target text log setting:					
File Path:	C:\var\log				
Encoding:	UTF-8				
Rotation Rule:	-	_			
Monitoring Condition:					
Monitoring Keyword:	<pre>^(error fatal):(.*)</pre>)\$			
Set the matched line to environment variables:	on				
Use regular expressions:	off				

Figure 5.52. Trigger definition display window

■Trigger definition columns

Column name	Description	Remark
(1) Trigger definition name	Displays the name of the trigger definition.	
(2) Target text log setting	Displays the information on the file to be monitored.	
(3) Conditions for monitoring	Displays the conditions for monitoring.	

5.7.3. Viewing the Linking JNW

1. The linking JNW set in the trigger definition is displayed. Click the [Linking JNW] tab on the trigger definition information screen.





2. The list of the JNWs linked with the trigger is displayed.

JobCenter CL/Web [EUI Normal Mode]	🚦 jcserver3.jcg.local 💄 user01 🕞
My Page Jobnetwork Tracker Schedule <u>Trigger</u> Machine Calendar	
difficulty_logcheck	
Trigger Linking JNW	
Linking JNW	
窗 Difficulty_Allert	
Search:	
$\bigcirc 50 \hline \ \ \ \ \ \ \ \ \ \ \ \ \$	

Figure 5.54. Linking JNW window

5.7.4. Enabling or Disabling the Trigger

This section describes how to enable or disable triggers.

You need to select [Edit Mode] as the login mode.

If you do not have permission to edit the user's own job network for CL/Win, you cannot enable or disable schedules.

5.7.4.1. Enabling/Disabling Triggers

This section describes how to enable or disable each trigger individually.

- 1. In the display table, place the cursor on the name of the trigger you want to enable (or disable), and right-click it.
- 2. Select [Enable] (or [Disable]) in the shortcut menu.

JobCenter CL/W	eb [EUI N	ormal Mode]				jcserver3.jcg.local	<u>user01</u> ا	₽
My Page Jobnetwork	Tracker	Schedule	Trigger	Machine	Calendar			
Trigger List								
Name	Enable/Dis	abl Comment						
Application_logcheck difficulty_logcheck web-server_logcheck	Disable Enable							
	Open Enable							
	Disable							
Search:	Name	- Ig	inore case 📄	Search using a	a regular expres	ssion		
♀ 50 ▾ ▮ ◀ ◀	Page 1	of 1 🕨 🕨		ements are dis	played (total: 3).		

Figure 5.55. Selecting [Disable] in the shortcut menu

- 3. The [Trigger Operation] dialog box opens.
- 4. Click the [OK] button.

Trigger Operation	×
Whether to Submit Trigger(web-server_logcheck)'s Disable?	
	⊘ок

Figure 5.56. [Trigger Operation] dialog box

5. If the following message is output in the [Trigger Operation] dialog box, the operation is completed.6. Click the [OK] button.



Figure 5.57. Success of operating schedule

5.8. Machine-related Operations

You can view a list of machines recognized by JobCenter MG/SV, a list of queues, and a list of users. You can also perform operations such as starting and stopping a queue.

5.8.1. Viewing a List of Machines

- 1. Select [Machine] on the navigation bar.
- 2. A list of machines recognized by JobCenter MG/SV is displayed.

					_ 🗆 X
C https://clweb-server/en/	machines $ ho ackslash riangle colored color$	C Machine List - JobCer	nter ×		↑ ★ ₽
JobCenter CL/Web [U	MS Normal Mode]		E	jobcenter-manager	🔺 root 🕞 🗸
My Page Jobnetwork Trac		Calendar			
Hyrage Jobhetwork Hat					
Machine List					_
Machine	Principal Name	Machine ID	Machine Type		
jobcenter-manager	jobcenter-manager	34122	nec		_
Search: Machin	ne 🗸 🗌 Ignore case 🔲 Se	arch using a regular exp	ression		
Q, 50 ∨	of 1 🕨 🕅 😌 1 - 1 ek	ements are displayed (to	tal: 1).		

Figure 5.58. Machine list display window

■Machine list columns

Column name	Description	Remark
Machine	Machine name recognized by JobCenter MG/SV	
Principal Name	Displays the formal name of the machine.	
Machine ID	Displays the machine ID.	
Machine Type	Displays the machine type (nec or necnt).	

5.8.2. Viewing a List of Queues

1. In the machine list display window, place the cursor on the name of the machine whose queue list you want to view and then click it.

JC https://clweb-server/en/machines P < a c	jobcenter-manager	n ★ 1 ▲ root @
My Page Jobnetwork Tracker Schedule <u>Machine</u> Calendar Machine List Machine Principal Name Machine ID Machine		r 🛓 root 🕞
Machine List Machine Principal Name Machine ID Machine	е Туре	٦
Machine Principal Name Machine ID Machine	e Type	٦
Machine Principal Name Machine ID Machine	е Туре	٦
	е Туре	٦
jobcenter-manager 34122 nec		
Search: Machine V Ignore case Search using a regular expression		
Machine v Ignore case Search using a regular expression		
tps://clweb-server/en/machines/jobcenter-manager/queues 🐉 🛛 1 - 1 elements are displayed (total: 1).		

Figure 5.59. Window where a machine is selected

2. The queue list of the selected machine is displayed.

JobCenter CL/Web [UMS Normal Mode] My Page Jobnetwork Tracker Schedule Machine Calendar Machine List > jobcenter-manager 2 root Image: Colored co	← → Jc https://clv	web-server/en,	/machines/jobc	enter- 🔎 🕶 🕯) C JC Q	ueue List	- JobCente	r ×				 × ⊉
Machine List > jobcenter-manager - Queue List User Name Type Submittion Execution Run Limit Total Queue Running Waiting Holding igguibs_1 BATCH ENABLE START 1 0 0 0 0 igguibs_1 BATCH ENABLE START 1 0 0 0 0 igguinb_def PIPE ENABLE START 5 0 0 0 0	JobCenter Cl	L /Web [u	IMS Normal Mo	de]					🗐 jot	ocenter-n	nanager	 _
Queue User Name Type Submittion Execution Run Limit Total Queued Running Waiting Holding Image: guibs_1 BATCH ENABLE START 1 0 0 0 0 Image: guibs_1 BATCH ENABLE START 1 0 0 0 0 Image: guibs_def PIPE ENABLE START 6 0 0 0 0 Image: guinw PIPE ENABLE START 5 0 0 0 0	My Page Jobnet	work Tra	cker Sche	dule <u>Ma</u>	chine	Calenda						
Queue User Name Type Submittion Execution Run Limit Total Queued Running Waiting Holding Image: guibs_1 BATCH ENABLE START 1 0 0 0 0 Image: guibs_1 BATCH ENABLE START 1 0 0 0 0 Image: guibs_def PIPE ENABLE START 6 0 0 0 0 Image: guinw PIPE ENABLE START 5 0 0 0 0	Machina List N	iobconto	r-manado	r - Ouour	Lict							
Name Type Submittion Execution Run Limit Total Queued Running Walting Holding Image outlos_1 BATCH ENABLE START 1 0 0 0 0 0 Image outlos_1 BATCH ENABLE START 1 0		Jobcente	:i-manaye	i - Queue	: LISU							-1
Image outlos_1 BATCH ENABLE START 1 0 0 0 0 0 Image outlos_1 PIPE ENABLE START 1 0 0 0 0 0 Image outlos_1 PIPE ENABLE START 6 0 0 0 0 Image outlos_1 PIPE ENABLE START 5 0 0 0 0	Queue Use	er										
Image outlos_1 BATCH ENABLE START 1 0 0 0 0 0 Image outlos_1 PIPE ENABLE START 1 0 0 0 0 0 Image outlos_1 PIPE ENABLE START 6 0 0 0 0 Image outlos_1 PIPE ENABLE START 5 0 0 0 0	Name	Туре	Submittion	Execution	Run Limit	t Total	Queued	Rupping	Waiting	Holding		
B guinw PIPE ENABLE START 5 0 0 0 0 0												ъ
	guilb_def	PIPE	ENABLE	START	6	0	0	0	0	0		
	guinw	PIPE	ENABLE	START	5	0	0	0	0	0		
	guitp_1	PIPE	ENABLE	START	10	0	0	0	0	0		
	Search:	Name	✓ 🗌	Ignore case	Search us	ing a regul	ar expressio	n				
Search: Name 🗸 📕 Ignore case 🔳 Search using a regular expression	Q 50 V	Page 1	of 1	MIAI	1 - 4 eleme	ents are dis	nlaved (tota	1- 41				

Figure 5.60. Queue list display window

3. The Queue Flag column can be added by using the [Hide/Show Columns] button. For information about the [Hide/Show Columns] button, refer to Section 5.1.4, "Display Table Column Display Function".

■Queue list columns

Column name	Description	Remark
Name	Refer to in <basic guide="">Section 11.1.2,</basic>	
Туре	"Displaying a Queue List in the NQS Frame Window"	
Queue Flag	Displays one of the following words representing the queue type: NORMAL, LOADBALANCE, and TRANSPARENT. NORMAL This indicates a normal pipe queue or batch queue. LOADBALANCE This indicates a demand delivery load balancing queue. TRANSPARENT	can be added by using the [Hide/Show Columns] button.
	This indicates a transparent pipe queue.	
Submission	Refer to in <basic guide="">Section 11.1.2,</basic>	
Execution	"Displaying a Queue List in the NQS Frame Window".	
Run Limit		
Total		
Queued		
Running		
Waiting		
Holding		

5.8.3. Operating a Queue

1. In the queue list window, place the cursor on the name of the queue you want to operate and then right-click it.

General Schttps://clweb-server/en/			JC O	ueue List	- JobCente	r ×					* ¤
JobCenter CL/Web [U	MS Normal Mo	de]					🗏 job	center-n	nanager	A root	
My Page Jobnetwork Trac	ker Sche	dule <u>Ma</u>	chine	Calendar							
Machine List > jobcente	r-manade		lict								
	-manaye		; LISU								
Queue User											
A	0.1	5	Run Limi		0		117-11 ²				
Name Type	Submittion	Execution START	Run Limi		Queued 0	Running 0	waiting	Holding 0			
Open	NABLE	START	6	0	0	0	0	0			
guinw Start	NABLE	START	5	0	0	0	0	0			
guito_ Stop	NABLE	START	10	0	0	0	0	0			
Disable											
Search: Name	~	Ignore case	Search us	ing a reguli	ar expressio	n					
Q 50 V M Page 1	of 1	MIAI	1 - 4 eleme	ents are dis	played (tota	1- 41					

Figure 5.61. Window where a queue is selected

CL/Web queues cannot be operated by anyone other than the JobCenter administrator. If you are not the administrator, the columns are grayed out.

Even if you are the administrator, you cannot operate queues when you are logged in Ref mode.

- 2. Place the cursor on the queue you want to operate, and click it.
- 3. When the [Queue Control] dialog box opens, click [OK].



Figure 5.62. [Queue Control] start dialog box

4. When the queue operation is complete, a result message is displayed. Click [OK].



Figure 5.63. [Queue Control] end dialog box

■Queue operations (shortcut menu)

Operation name	Description
Start/Stop	Sets the queue status to start or stop.
Enable/Disable	Enables or disables the queue status.

5.8.4. Viewing a List of Users

1. Select the [User] tab in the queue list display window.

← → JC http	os://clweb-server/en/i	machines/jobc	enter- 🔎 🕶 🕯	JC Q	ueue List	- JobCente	r ×					× ★ ☆
JobCente	r CL/Web [U	MS Normal Mo	de]					🗐 job	center-n	nanager	💄 <u>root</u>	
My Page Jo	bnetwork Trac	ker Sche	dule Ma	hine	Calendar							
Marakina I.												
Machine L	ist > jobcente	r-manage	r - Queue	e List								-11
Queue	User											11
A.		Cubartitian	5tion	Dura Linci	Tabal	0	Dummine	144-18-1				
Name	Type BATCH	Submittion ENABLE	Execution START	Run Limit		Queued 0	Running 0	Waiting 0	Holding 0			
guilb_def	PIPE	ENABLE	START	6	0	0	0	0	0			
📅 guinw	PIPE	ENABLE	START	5	0	0	0	0	0			
guitp_1	PIPE	ENABLE	START	10	0	0	0	0	0			
Search:	Name	✓ □ 1	Ignore case	Search us	ing a regula	ar expressio	'n					
https://clweb-serv	er/en/machines/jobc	enter-managei	r/users	1 - 4 eleme	inte are die	played (tota	1: 4)					×

Figure 5.64. Window where the [User] tab is selected

2. A list of users recognized by JobCenter MG/SV is displayed.

JobCenter CL/Web [UMS Normal Mode] My Page Jobnetwork Tracker Schedule Machine Calendar Machine List > jobcenter-manager - User List Queue User Name UID abrt 3 avahi 70 avahi 70 avahi-autoipd 173 bin 1 chrony 998 colord 997 daemon 2 dbus 14 games 12 gdm 42 gome-initial-setup 993 Search: Name 🎽 Ignore case Search using a regular expression		- □ × ↑★ ‡
Machine List > jobcenter-manager - User List Queue User Name UID abrt 173 adm 3 avahi 70 avahi-autoipd 170 bin 1 chrony 998 colord 997 deemon 2 dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993	jobcenter-manager	🔺 root 🕞 🔥
QueueUserNameUIDabrt173adm3avahi70avahi-autoipd170bin1chrony998colord997daemon2dbus81ftp14games12gdm42gnome-initial-setup993		
NameUIDabrt173adm3avahi70avahi-autoipd170bin1chrony998colord997daemon2dbus81ftp14games12gdm42gnome-initial-setup993		
abrt 173 adm 3 avahi 70 avahi-autolpd 170 bin 1 chrony 998 colord 997 daemon 2 dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993		
admaradm3avahi70avahi-autoipd170bin1chrony998colord997daemon2dbus81ftp14games12gdm42gnome-initial-setup993		
avahi 70 avahi-autoipd 170 bin 1 chrony 998 colord 997 daemon 2 dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993		
avahi-autoipd170bin1chrony998colord997daemon2dbus81ttp14games12gdm42gnome-initial-setup993		
bin 1 chrony 998 colord 997 daemon 2 dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993		
chrony 998 colord 997 daemon 2 dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993		
colord 997 daemon 2 dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993		- 18
daemon 2 dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993		
dbus 81 ftp 14 games 12 gdm 42 gnome-initial-setup 993		
ftp 14 games 12 gdm 42 gnome-initial-setup 993		
games 12 gdm 42 gnome-initial-setup 993		
gdm 42 gnome-initial-setup 993		
gnome-initial-setup 993		- 8
Search: Name V Ignore case Search using a regular expression		×
Q 50 V M A Page 1 of 1 N M A lements are displayed (fotal: 43)		N 1

Figure 5.65. Window where the [User] tab is selected

■User list columns

Column name	Description	Remark
Name	Displays the user name.	
UID	Displays the user ID.	

5.9. Calendar-related Operations

You can view a list of calendars, rules set for calendars, etc.

5.9.1. Viewing a List of Calendars

- 1. Select [Calendar] on the navigation bar.
- 2. A list of calendars is displayed.

		_ 🗆 X
(←) → JC https://clweb-server/en/calendars $P \neq \triangleq c$ JC Calendar List - JobCente ×		↑ ★ ☆
JobCenter CL/Web [UMS Normal Mode]	🚦 jobcenter-manager 💄	root 🕞 🔺
My Page Jobnetwork Tracker Schedule Machine <u>Calendar</u>		
Calendar List		
Name		
31 East_sea_branch_company		
31 Japan		- 84
31 Kanto_branch_company		- 84
31 Kyushu_branch_company		- 84
31 Northeast_branch_company		
		- 84
		- 84
		- 84
		- 84
		- 84
		_
		_
		- 84
Search: Name 🗸 🔲 Ignore case 🔲 Search using a regular expression		
Q 50 ✓ I Page 1 of 1 ► N OF 1 - 5 elements are displayed (total: 5).		~

Figure 5.66. Calendar list display window

■Calendar list column

Column name	Description	Remark
Name	Displays the calendar name.	

5.9.2. Viewing the Calendar Definition

1. In the calendar list display window, place the cursor on the name of the calendar whose definition you want to view, and then click it.



Figure 5.67. Calendar list display window

2. The definition of the selected calendar is displayed.



Figure 5.68. Calendar definition display window

■Calendar definition columns

Column name	Remark				
(1) Calendar definition name	Displays the name of the viewed calendar definition.				
(2) Monthly operating day calendar	Displays the operating-day dates for each month. The characters in black are the registered dates.				
(3) Time zone	Displays the specified time zone.				
(4) Daylight savings time offset	(4) Daylight savings time Displays whether the daylight savings time (summer time) is set.				
(5) Rule	Displays the rule of calendar definition. The displayed items are [+/-] (registration/exclusion), [Type], [Break shift], [Relative], and [Term].				

5.10. My Page Function

5.10.1. Function Overview

The My Page function allows the user to customize the information to be displayed. "Panels" having different functions can be placed on the [My Page] window. One type of panel displays only the information about the job networks that the user wants to monitor. There is also another type of panel that displays the transition in the number of JobCenter trackers.

C → JC https://dweb-server/en/mypage	C My Page - JobCenter CL ×			×
JobCenter CL/Web [UMS View Mode]			jobcenter-manager	root 🕞
My Page Jobnetwork Tracker	Schedule Machi	ine Calendar		
daily batch mylist	० २ ≡	🛓 tracker report		२ ≡
Name Status	Action	6.5		
Accept_job DONE	Submit	5.5		
NextSubjob DONE	Submit	5		
daily_treatment1 DONE	Submit	4.3		
daily_treatment2 DONE[ARCHIVED]	Submit	3.5	///////	···
daily_treatment3 DONE	Submit	3		
daily_treatment4 DONE	Submit	2		
		1.5		
		0.5		
Display by listing It 's	s ioh network	0 ++	06/22 06/24	06/2
you want to pay atte	-	Root JNW (schedul	ed) Sub JNW (scheduled) Root JNW (immediate) Sub JNW (immediate)	
you want to puy atte				
Target User:root		Target: All, Period: 1Week(20:	15/06/20 - 2015/06/26)	

Figure 5.69. Example of [My Page] window

The following table lists the panels available with the My Page function.

Table	5.5.	List	of	My	Page	panels
-------	------	------	----	----	------	--------

Category	Panel name	Function	Description
My List	JNW My List	Lets you create a list of job networks that you want to monitor.	For details, refer to Section 5.10.4.1.1, "JNW My List".
	Tracker My List	Lets you create a list of only the trackers of those job networks that you want to monitor.	Section 5.10.4.1.2, "Tracker
Report	Tracker Summary	Lets you view the job network execution summary by status or progress in the form of a pie chart.	Section 5.10.4.2.1, "Tracker
	be added only by the JobCenter	Lets you view the number of trackers used in the entire JobCenter or the number of trackers used by those users who are using most trackers, in the form of a graph.	Section 5.10.4.2.2, "Tracker Report".

The My Page function allows you to use job network information in various ways. For example, you can place multiple [JNW My List] panels in a single window, as shown below, and reference the job networks of different users simultaneously.

C S Ic https://dweb-server/en/mypa	age P-≜¢Jo	My Page - JobCenter CL >	<					■ ×
JobCenter CL/Web	UMS View Mode]					jobcenter-manager	💄 <u>root</u>	•
My Page Jobnetwork	c Tracker	Schedule	Machine	Calendar				
aily batch mylist		० २	≡	another user list		÷	२ ≡	
Name	Status	Action		Name	Status	Action		
Accept_job	DONE	Submit		DB_maintenance	-	Submit		
NextSubjob	DONE	Submit		Weekly_batch	-	Submit		
daily_treatment1	DONE	Submit						
daily_treatment2	DONE[ARCHIVED]	Submit						
daily_treatment3	DONE	Submit						
daily_treatment4	DONE	Submit						
								_
Target User:root				Target User:nsumsmgr				
ι								

Figure 5.70. Referencing the job networks of multiple users simultaneously

The My Page limit mode function is also available that provides users with only the functions they need. Once the limit mode is set for users, only the [My Page] window is displayed after they log in, which makes operations simple and prevents operation errors. For details of the limit mode, refer to Section 5.10.5, "Setting My Page (JobCenter Administrator)".

5.10.2. Using My Page

5.10.2.1. Displaying My Page

When you log in to JobCenter CL/Web, the [My Page] window appears. When you have no panel added, the window looks as shown below.

	lweb-server /en/mypage		Ny Page - JobCenter CL 🗙				ሰ 🛧 🛱
JobCenter	CL/Web [UMS Vie	w Mode]				jobcenter-m	anager 💄 root 🕞
My Page	Jobnetwork	Tracker	Schedule	Machine	Calendar		

Figure 5.71. [My Page] window (when there is no panel added)

5.10.2.2. Adding a Panel

You can add panels to the [My Page] window. Once you add panels, the window is restored to the state it is in when you add them, the next time you log in.

To add a panel to the [My Page] window, first click the [Add Panel] button in the upper right of the window.



Figure 5.72. [Add Panel] button

If you click the [Add Panel] button, the [Add Panel] dialog box appears as shown below. To add a panel, select the one you want to add. For details of the settings of the [Add Panel] dialog box, refer to Section 5.10.3.2, "Adding a Panel".
+ Add Panel	×
My List Image: Second secon	JNW My List Set the panel name. Panel Name Panel Size middle Panel Order Iordinal number
	Create a My List for the job network.

Figure 5.73. [Add Panel] dialog box

5.10.2.3. Setting a Panel

Each type of panel has its own set of items to be set. The [Panel Setting] dialog box lets you change the settings so that the panel displays the content you want to view. For information about the [Panel Setting] dialog box, refer to Section 5.10.3.3, "Setting Dialog Box".

	२ Setting -daily batch my	/list-	
JNW My List Setting Display Column Panel Size and Order Change Panel Name Deleting Panel Order 1 ordinal number (Current Order: 1 ordinal number) En Save Change the panel size and order.	Display Column Panel Size and Order Change Panel Name	Panel Size middle Image: Save Panel Order Image: Save	



5.10.3. Common Panel Operations

There are operations that are common to the panels that you can place in the [My Page] window, such as addition, deletion, and reload. These common operations are described below.

5.10.3.1. Panel Window

A panel window consists of three parts: header, body, and footer.

(1) (2)		(3) (4) (5	5)
iii daily batch myli	st	०२≡	Header part
Name NextSubjob daily_treatment1 daily_treatment2 daily_treatment3 daily_treatment4 subjob	Status DONE[ARCHIVED] DONE[ARCHIVED] DONE[ARCHIVED] DONE[ARCHIVED] DONE[ARCHIVED] -	Action Submit Submit Submit Submit Submit	Body part
Target User:root			Footer part

Figure 5.75. Panel window

1. Header part

The header part displays the panel name and buttons. The elements of the header part are as follows.

No.	Element name	Description
(1)	Panel icon	An icon representing the type of panel is displayed. For information about the panel icons, refer to the sections pertaining to the individual panels in Section 5.10.4, "Details of Panels".
(2)	Panel name	The panel name that you set when you added the panel is displayed. This panel name may be up to 30 characters long and contain Japanese characters and symbols as well. You can set a name that is identical to that of another panel. However, it is recommended to specify a different name so as to distinguish the panel from other panels.
(3)	[Reload] button	If you click this button, the information displayed in the body part is reloaded. The reload operation is performed based on

		the information of the setting dialog box. Any setting you change using the side menu will be restored to the state that is set in the setting dialog box.
(4)	[Panel Setting] button	The setting dialog box is displayed. The setting dialog box allows you to set the panel. For details, refer to Section 5.10.3.3, "Setting Dialog Box".
(5)	[Side menu] button	The side menu slides from the right side of the body part. When you click somewhere outside the side menu, it slides out of view. For details, refer to Section 5.10.3.7, "Side Menu".

2. Body part

The body part can display information that is unique to the panel. The information displayed in this area is updated through an appropriate operation such as clicking the [Reload] button in the header part. The following operations update the information in the body part.

■Displaying the initial [My Page] window

■Clicking the [Reload] button

■Saving the [Panel Setting] dialog box

■Changing a setting by using the side panel

3. Footer part

The footer part displays a summary of the information currently displayed in the body part and warning information (JobCenter MG/SV communication error).

5.10.3.2. Adding a Panel

If you click the [Add Panel] button at the upper right of the [My Page] window, the [Add Panel] dialog box appears.





On the left side of the [Add Panel] dialog box, select the type of panel that you want to add. Enter a panel name and other items to be set, and then click the [Save] button. If all necessary items have been set, the panel is added to the [My Page] window.

+ Add Panel	×
My List 🔶	JNW My List
INW My List	Set the panel name.
+ Tracker My List	Panel Name
Report	Panel Size middle Panel Order 1ordinal number Save
	Create a My List for the job network.

Figure 5.77. [Add Panel] dialog box

To quit adding the panel, click the [x] button at the upper right corner of the dialog box (or click somewhere outside the dialog box area). The addition of the panel is canceled, and the [Add Panel] dialog box is closed.

You can change the panel name, panel size, and panel order in the [Add Panel] dialog box after adding the panel, by using the setting dialog box.



5.10.3.3. Setting Dialog Box

If you click the [Panel Setting] button, the setting dialog box appears as shown below. This setting dialog box lets you set not only the items unique to a specific panel but also the items common to all panels. When you select an item on the left side, the items you can set are displayed on the right side. Change the settings as necessary, and click the [Save] button to save the changes. The items that are saved using the setting dialog box will remain in effect the next time the same user logs in.

	JobCenter C	L/Web [UMS View Mode]		jobcenter-mana	ager 💄 ro	ot (
		२ Setting -daily batch my	ylist-				λ.
Pan S	NextSubjob daily_treatment1 daily_treatment2 daily_treatment3		Panel Size and Order Panel Size middle Panel Order Panel Order Iordinal number (Current Order: 1ordinal number)	A Save			
			Change the panel size and order.				
				ige region			

Figure 5.78. [Panel Setting] dialog box

To quit setting the panel, click the [x] button at the upper right corner of the dialog box (or click somewhere outside the dialog box area). The setting of the panel is canceled, and the setting dialog box is closed.

5.10.3.4. Moving a Panel or Changing a Panel Size

The [Panel Setting] dialog box allows you to move a panel or change the size of a panel. If you choose "Panel Size and Order" from the items on the left side of the setting dialog box, a list is displayed to let you change the panel size and order. After changing the settings, click the [Save] button to apply the changes.

२ Setting -daily batch m	nylist-	
JNW My List Setting Display Column Panel Size and Order Change Panel Name Deleting Panel	Panel Size Panel Size middle Panel Order Panel Order Order (Current Order: 1ordinal number) Change the panel size and order.	

Figure 5.79. [Panel Setting] dialog box (moving a panel or changing a panel size)

For each panel that you place in the [My Page] window, you can set one of the four types of width (small, middle, large, and full). For example, you can place panels in the [My Page] window in a layout shown below.



Figure 5.80. Example of the panel layout

If the width of a panel extends off the window frame, the panel is displayed on the next row. As shown in the example above, if a panel of the middle size (1/2) and a panel of the large size (2/3) are placed side by side, the panel of the large size cannot be drawn on the same row and is therefore displayed on the next row. The following table shows the width necessary for each panel size. These width values change according to the width of the browser window (pixels).

Table 5.7.	Width of	the	browser	window	and	panel	sizes
	width of	CIIC	0100301	WIIIGOW	unu	punci	51205

		Panel size			
Browser width (pixels)	small	middle	large	full	
981 pixels or more	1/3 of the width	1/2 of the width	2/3 of the width	Entire width	
768 to 980 pixels	1/2 of the width	1/2 of the width	Entire width	Entire width	
767 pixels or less	Entire width	Entire width	Entire width	Entire width	

If you change the browser window size on a PC, or if the browser window width changes as you change the orientation of the iPad from vertical to horizontal, the panel sizes (widths) dynamically change.

5.10.3.5. Changing a Panel Name

The [Panel Setting] dialog box allows you to change the name of a panel. Choose "Change Panel Name" from the items on the left side of the setting dialog box, and then enter a new panel name. After entering the panel name, click the [Save] button to apply the change.

२ Setting -daily batch r	Setting -daily batch mylist-		
JNW My List Setting	Change Panel Name		
Display Column			
Panel Size and Order	Panel Name daily	batch mylist	
Change Panel Name		E Save	
Deleting Panel			
Changing Panel Name			

Figure 5.81. [Panel Setting] dialog box (changing a panel name)

5.10.3.6. Deleting a Panel

You can delete an unnecessary panel from the [Panel Setting] dialog box. If you choose "Delete Panel" from the items on the left side of the setting dialog box, the [Delete] button appears. If you click the [Delete] button, a confirmation dialog box appears. Before deleting the panel, confirm whether you want to delete it.

२ Setting -daily batch mylist-					
JNW My List Setting	Deleting Panel				
Display Column					
Panel Size and Order		× Delete			
Change Panel Name	Deleting the panel. Once deleted, the panel cannot be restored.				
Deleting Panel					

Figure 5.82. [Panel Setting] dialog box (deleting a panel)

Deleting Panel	×
Delete panel "daily batch mylist"?	
	⊘ ОК



5.10.3.7. Side Menu

If you click the [Side Menu] button, the side menu window slides from the right side of the body part. The side menu window lets you set and change the display conditions and contents. The items that you change in this window will be changed back to the settings made in the setting dialog box when you log out, reload the information, or perform some other operations.

📩 trk_summary	ý	० २ ≡
Status	Tracker Number	Display.Type
Success	9	O Status O Progress
💛 Warning	0	Period
O Wait reply	2	1 Day
e Failure	0	
Unfinished	0	
Summary	11	
Target User: root, Period:	1Day(2015/06/26 00:00 - 2015/)6/26 23:59)
		Side Menu

Side Menu Button

Figure 5.84. Side menu window

If you click somewhere outside the side menu window that has slid into view, the window is closed.

5.10.4. Details of Panels

There are two groups of panels: [My List] panels and [Report] panels. This section describes [My List] panels and [Report] panels in detail.

5.10.4.1. [My List] Panels

A [My List] panel displays a collection of job network definitions and tracker information that the user wants to reference in a single window so that the user can check them at a glance.

5.10.4.1.1. JNW My List

The [JNW My List] panel displays specified job networks. This panel allows you to display and submit only those job networks that you frequently use, as well as to reference their latest trackers in the same window.

aily batch mylist			Ð	٦	≡
Name	Status	Action			
Accept_job	DONE[ARCHIVED]	Submit			
NextSubjob	DONE[ARCHIVED]	Submit			
daily_treatment1	DONE[ARCHIVED]	Submit			
daily_treatment2	DONE[ARCHIVED]	Submit			
daily_treatment3	DONE[ARCHIVED]	Submit			
daily_treatment4	DONE[ARCHIVED]	Submit			
monthly_treatment1	DONE[ARCHIVED]	Submit			
subjob	-	Submit			
Target User:root					

Figure 5.85. JNW My List

No item is displayed in the [JNW My List] panel when it is added. To display job networks, select target users and job networks from "JNW My List Setting" of the setting dialog box.

5.10.4.1.1.1. What the JNW My List Displays

After job networks are set, the JNW My List displays a list of registered job networks. The following table shows the columns of the JNW My List.

Column name	Description	Remark
Name	The job network name is displayed. If you click this item, a job network window opens in a new tab.	
Туре	The type of object is displayed. In the JNW My List, the type is fixed to job network.	
Status	The execution status of the job network is displayed. If you click this item, a tracker window opens in a new tab.	
Status class	The status is displayed.	
Tracker ID	The tracker ID is displayed.	
Group	The name of the group to which the tracker belongs is displayed.	
Comment	The comment set for the job network is displayed.	
Action	The button for submitting the job network is displayed. If you click this button, the [Submit JNW] dialog box appears.	

Table 5.8. Columns of the JNW My List

The [Submit JNW] dialog box of the [JNW My List] panel has unique settings, and the "Open Job Network Tracker Window" check box is not selected by default. If you select the check box, the tracker window opens in a new tab and the [JNW My List] panel is reloaded.

For the other settings of the [Submit JNW] dialog box, refer to Section 5.4.3.3, "Setting Immediate Submission".

The latest execution status of a job network and its tracker ID are displayed as the summary information (Status, Status class, and Tracker ID). If the job network has not been executed, "-" is displayed.

5.10.4.1.1.2. Setting the JNW My List

The [JNW My List Setting] dialog box allows you to change the target user, the job networks of that user, and what to display in the columns.

3 Setting -daily batch mylist-						
JNW My List Setting Display Column Panel Size and Order Change Panel Name Deleting Panel	JNW My List User Name Foot Selected Trackers List Accept_job NextSubjob daily_treatment1 daily_treatment3 daily_treatment3 daily_treatment4					
	Monthly_treatment1 Subjob Monthly_treatment2 Monthly_treatment1 Monthly_treatment2 Monthly_treatment2 Monthly_treatment3 Monthly_treatment3 Monthly_treatment4 M					

Figure 5.86. [JNW My List Setting] dialog box (JNW My List Setting)

₹ Setting -daily batch mylist-					
JNW My List Setting	Display Column				
Display Column	✓ Name				
Panel Size and Order	Туре				
Change Panel Name	✓ Status				
Deleting Panel	Status Class				
	Parent Group				
	Comment				
	✓ Action				
	🖺 Save				
	Select the item to be displayed in the column.				

Figure 5.87. [JNW My List Setting] dialog box (Display Column)

■Target User

Select the target user of the JNW My List.

Default value

Login user. Note that, when you are referencing another user by using the user switch function, the target user is the user to whom you have switched.

Restrictions

A user with no reference permission cannot be selected.

Remark

For details of the permissions related to the JNW My List, refer to Section 5.10.4.3, "Permissions to Display Panels and Change Settings".

■Job Network List

A list of the job networks of the selected target user is displayed. Select the job network you want to register. The selected job network is displayed in the "Selected List".

Default value
None
Restrictions
At least one job network must be registered.
Up to 20 job networks can be registered.

■Display Column

Set the default items for the columns of the JNW My List. For details of the items of the columns, refer to Table 5.8, "Columns of the JNW My List".

■Default value
Name
Status
Action
■Restrictions
Select one or more job networks.
Remark
None

5.10.4.1.1.3. Side menu of the JNW My List

There is no side menu for the JNW My List.

5.10.4.1.2. Tracker My List

The [Tracker My List] panel displays a list of trackers of the job networks registered in the My List. This panel allows you to display the execution results of only those job networks that you want to monitor. Also, as with the Tracker List, you can jump to the detail page of the target tracker from the link.

Basic Operations

🗄 daily trac	ker mylist						ତ	٦	≡
Name	Status	Comment	Expected Start Time	Expected End Time	Start Time	End Time			
NextSubjob	DONE[ARCHIVED]		2015/06/26 16:00:00	2015/06/26 16:00:00	2015/06/26 16:00:01	2015/06/26 16:00:01			
monthly_treatment1	DONE[ARCHIVED]		2015/06/26 16:00:00	2015/06/26 16:00:04	2015/06/26 16:00:01	2015/06/26 16:00:02			
daily_treatment4	DONE[ARCHIVED]		2015/06/26 15:40:33	2015/06/26 15:40:33	2015/06/26 15:40:33	2015/06/26 15:40:33			
daily_treatment3	DONE[ARCHIVED]		2015/06/26 15:40:29	2015/06/26 15:40:29	2015/06/26 15:40:29	2015/06/26 15:40:29			
daily_treatment1	DONE[ARCHIVED]		2015/06/26 15:40:24	2015/06/26 15:40:24	2015/06/26 15:40:24	2015/06/26 15:40:24			
Accept_job	DONE[ARCHIVED]		2015/06/26 15:40:18	2015/06/26 15:40:18	2015/06/26 15:40:19	2015/06/26 15:40:19			
NextSubjob	DONE[ARCHIVED]		2015/06/26 15:40:15	2015/06/26 15:40:15	2015/06/26 15:40:15	2015/06/26 15:40:15			
daily_treatment1	DIALOG		2015/06/02 12:02:27	2015/06/02 12:02:27	2015/06/02 12:02:27				
10 V H 4 Page 1 of 1 V H 1 - 8 elements are displayed (total: 8).									
Target User:root, Per	riod: 1Day(2015/06/26	- 2015/06/26)							



5.10.4.1.2.1. What the Tracker My List Displays

The Tracker My List displays a list of trackers of registered job networks (the same information as the Tracker List window). The content that this list displays is the same as that of the Tracker List window. For details, refer to Section 5.5, "Tracker-related Operations".

Clicking a displayed tracker name opens the tracker details window (track flow). Unlike the Tracker List window, a new tab opens.

By using the search window at the bottom of the body part, you can do a search in the same way as described in Section 5.1.2, "Search Function", and change the number of trackers to be displayed.

5.10.4.1.2.2. Setting the Tracker My List

You can register job networks using "Tracker My List Setting" in the setting dialog box. In the job network tree, select the check boxes of the job networks that you want to register. The trackers of the selected job networks are displayed in the list of the body part. Note that, if you do not have permission to reference trackers, you cannot reference trackers.

If you are authorized to reference trackers of another user, you can specify that user in "User Name" and select job networks. Change the user name in the setting dialog box, and specify the job networks that you want to register. Note that you can specify only one user per Tracker My List. If you want to monitor more than one user, create as many Tracker My Lists.

${f R}$ Setting -daily tracker n	nylist-	
Setting -daily tracker m Tracker My List Setting Display Column Panel Size and Order Change Panel Name Deleting Panel	Tracker My List User Name Foot NW List NW List NW List Accept_job NextSubjob daily_treatment1 daily_treatment2 daily_treatment3 daily_treatment3 daily_treatment4 with a daily	×
	Tracker Status Detail: Display Period 1 Day Save Set conditions for displaying trackers in the Tracker My List.	2

Figure 5.89. [Tracker My List Setting] dialog box (selecting job networks)

If you click the word "Show" next to "Tracker Status Detail", the items to be set in tracker status details are displayed.

Tracker Status Detail: Di	isplay		
Search Archived Trackers	Archived Tracker		
Search Status	WAITING RU	NNING 🗹 DIBE	ERROR
	STOP SKIP	HOLD WAIT	
Period			
1 Day 🔽			
			🖺 Save

Figure 5.90. [Tracker My List Setting] dialog box (with tracker status details displayed)

■Target User

Select the target user of the Tracker My List.



Login user. Note that, when you are referencing another user by using the user switch function, the target user is the user to whom you have switched.

Restrictions

A user with no reference permission cannot be selected.

Remark

For details of the permissions related to the Tracker My List, refer to Section 5.10.4.3, "Permissions to Display Panels and Change Settings".

■Job Network List

A list of the job networks of the selected target user is displayed. Select the job network you want to register. The selected job network is displayed in the "Selected List".



■Tracker Status Detail

Select the status, archive status, and other items that you want to output to the Tracker My List. For details of the individual items, refer to Section 5.5.1, "Viewing Trackers".

■ Default value
Archived tracker
Unarchived tracker
Scheduled
Running
Complete
 Restrictions
Select one or more job networks.

■Display period

Specify the period during which trackers are to be displayed. The available options are "1 day", "2 days", "3 days", "1 week", "2 weeks", and "4 weeks". For example, if you specify "1 week", the trackers during the past 1-week period including the present day can be displayed.



Default value



You can change items of the columns to be displayed in the Tracker My List, by using "Display Column" in the setting dialog box.

२ Setting -daily tracker	mylist- X
Tracker My List Setting	Display Column
Display Column	V Name
Panel Size and Order	✓ Status
Change Panel Name	Status Class
Deleting Panel	Tracker ID ✓Comment
	ZExpected End Time
	✓ Start Time
	✓ End Time
	User
	Machine
	Group
	🖺 Save
	Select the item to be displayed in the column.

Figure 5.91. [Tracker My List Setting] dialog box (selecting the columns to be displayed)

■Display Column

Set the default items for the columns of the Tracker My List. For details of the items of the columns, refer to Section 5.5.1.1, "Listing Trackers".

■ Default value
Name
Status
Comment
Expected Start Time
Expected End Time
Start Time

End Time
Restrictions
Select one or more job networks.
Remark
None

5.10.4.1.2.3. Side Menu of the Tracker My List

If you open the side menu when the Tracker My List has any items to be displayed, you can specify the display period and filter your search.



Figure 5.92. Side menu of the Tracker My List

■Display period

The available options are "1 day", "2 days", "3 days", "1 week", "2 weeks", and "4 weeks".

Default value

1 day

Restrictions

None

Remark

After you make a change, the list is reloaded immediately, displaying the latest information.

When the list is reloaded, the display period is reset to the value you set.

■Search

You can filter the items to be displayed in the list. This search is done in the same way as described in Section 5.1.2.1, "Search Bar". Specify a character string, and press the Enter key. The Tracker My List information is collected again, and the new list is displayed.



5.10.4.2. Report Panels

Report panels let you view the operation status and statistical information of JobCenter.

5.10.4.2.1. Tracker Summary

The [Tracker Summary] panel obtains and displays the current summary information of trackers (transition in the number of trackers by status). This panel allows you to check how many trackers have caused an error so far and how many trackers are scheduled to be submitted from now on.

🗼 trk summary		ও २ ≡
Status	Tracker Number	
Success	9	
💛 Warning	0	
💛 Wait reply	2	
F ailure	0	
Unfinished	0	
Summary	11	
Target User: root, Period: 1Day(2015/06/26 00:00 - 2015/06/26 23:59)		

Figure 5.93. Tracker Summary

The [Tracker Summary] panel displays the tracker status when the panel is added. A table showing the number of tracks is displayed on the left side of the [Tracker Summary] panel, and a donut chart is on the right side. To change the display, make necessary changes using the setting dialog box. To change the display temporarily, use the side menu to make necessary changes.



When you use Internet Explorer or the FireFox browser, placing the mouse cursor on the donut chart displays a popup window showing the tracker items and their ratios.

5.10.4.2.1.1. What the Tracker Summary Displays

The Tracker Summary displays two types of information: "Status" and "Progress".

In addition to "SUCCESS", the status list displays "FAILURE", "HOLD", and other statuses that require user action. The following table shows the statuses that may be displayed in the list.

Status	Description
SUCCESS	Execution ended normally.
WARNING	Warning occurred.
HOLD	Execution is stopped to wait for a response from a dialog box.
FAILURE	Execution is stopped due to an error or ended abnormally.
INCOMPLETE	The tracker is scheduled or currently running, and not in the WARNING, HOLD, or ERROR status.

The "Progress" list displays the progress statuses. The following table shows the progress statuses that may be displayed in the list.

Table 5.10. List of the	he progress statuses
-------------------------	----------------------

Progress	Description
DONE	Completed tracker
RUN	Currently running tracker
PREPARE	Scheduled tracker

5.10.4.2.1.2. Setting the Tracker Summary

In the [Tracker Summary] panel, you can change three items: target user, display type, and display period.

\ Setting -trk summary-X		
Tracker Summary Setting	Tracker Summary	
Panel Size and Order	Target User	
Change Panel Name	root	
Deleting Panel	Display Type	
	O Status O Progress	
	Period	
	1 Day 🔽	
	🖺 Save	
	Set conditions for displaying the tracker summary.	

Figure 5.94. [Tracker Summary Setting] dialog box

■Target User

Select the target user of the Tracker Summary. Besides an individual user, the JobCenter administrator can select all users.

Default value

Login user. Note that, when you are referencing another user by using the user switch function, the target user is the user to whom you have switched.

Restrictions

A user with no reference permission cannot be selected.

Remark

For details of the permissions related to the Tracker My List, refer to Section 5.10.4.3, "Permissions to Display Panels and Change Settings".

■Display Type

You can choose the display type between "Status" and "Progress".

 Default value
Status
 Restrictions
None
Remark
None

■Display period

The available options are "1 day", "2 days", and "3 days" including the reference date.

	Default value
	1 day
	 Restrictions
	None
	Remark
	The reference date refers to the day on which the [My Page] window is drawn for the first time or reloaded.

5.10.4.2.1.3. Side Menu of the Tracker Summary

The side menu of the Tracker Summary allows you to change the display type and display period.



Figure 5.95. Side menu of the Tracker Summary

5.10.4.2.2. Tracker Report

The [Tracker Report] panel displays the transition in the number of archived trackers.



Figure 5.96. Tracker Report

The [Tracker Report] panel displays four stacked charts for one week's worth of trackers of all users when the panel is added. To change the display, make necessary changes using the setting dialog box. To change the display temporarily, use the side menu to make necessary changes.

5.10.4.2.2.1. What the Tracker Report Displays

The [Tracker Report] panel displays two types of report: "Overall" and "Each User". The "Overall" report combines four types of chart, each showing either root job networks or sub job networks and either job networks submitted according to schedule or job networks submitted immediately.

Item	Description
Root JNW (scheduled)	Number of job networks submitted according to schedule

T I I I A			
Table 5.11.	List of the	e statuses ir	n the charts

Item	Description
Sub JNW (scheduled)	Number of sub job networks submitted according to schedule
Root JNW (immediate)	Number of job networks submitted immediately
Sub JNW (immediate)	Number of sub job networks submitted immediately

The "Each User" report displays charts for several users who submitted the most archived trackers during the display period. You can set and change the number of users to be displayed in this report.

There is another display function, which allows you to toggle between displaying and hiding a chart in the [Tracker Report] panel by clicking that chart.



Figure 5.97. Tracker Report (hiding a chart)

5.10.4.2.2.2. Setting the Tracker Report

In the [Tracker Report] panel, you can change three items: chart type, display period, and report type.

२ Setting -trk report-	
Tracker Report Setting	Tracker Report
Panel Size and Order Change Panel Name	Display Type
Deleting Panel	Period
	1 Week
	● All ● Each User The top up to 3 persons
	Set conditions for displaying the tracker report.

Figure 5.98. [Tracker Report setting] dialog box

■Chart type

There are two types of chart: "Stacked Chart" and "Line Chart". If you choose "Stacked Chart", the number of job networks of each category is displayed in the form of a bar. If you choose "Line Chart", the number of job networks of each category is indicated by a line, instead of being stacked into a bar.

 Default value
Stacked Chart
 Restrictions
None
Remark
None

■Display period

The available options are "1 day", "1 week", "2 weeks", "4 weeks", and "8 weeks" in the past including the reference date.

Default value
1 week
 Restrictions
None
Remark
The reference date refers to the day on which the [My Page] window is drawn for the first time or reloaded.



If you click somewhere on a chart when the display period is other than 1 day, the day corresponding to the position where you clicked is selected. If you change the display period in this condition using the side menu, the selected day becomes the reference date. Note that this change is temporary and becomes ineffective when the information is reloaded.



■Report type

You can choose between "Overall" and "Each User". If you choose "Each User", select how many users who submitted the most trackers during the display period are to be displayed, from "3 users", "5 users", and "10 users".



Remark

Users are ranked according to the total number of archived trackers that are submitted during the display period.

5.10.4.2.2.3. Side Menu of the Tracker Report

The side menu of the Tracker Report allows you to change the display type, display period, and report type.





5.10.4.3. Permissions to Display Panels and Change Settings

You need the JobCenter permissions to display panels and change settings.

The "JobCenter administrator" has all permissions and can display all the panels and change all the settings.

A "general user" needs the permissions shown in the table below to display individual panels and change settings. For details of the JobCenter permissions, refer to in <Basic Guide>Chapter 14, 「Authority Setting of General User (Permission)」.

Panel name	Required permissions	Remark
JNW My List	execution permission, tracker	If you do not have any of the indicated permissions or if access to the target user is limited, you cannot display the panel and change settings.
Tracker My List	Tracker reference permission	If you do not have any of the indicated permissions or if access to the target user is limited, you cannot display the panel and change settings.
Tracker Summary	Tracker reference permission	If you do not have any of the indicated permissions or if access to the target user is limited, you cannot display the panel and change settings.

Panel name	Required permissions	Remark	
	to place the [Tracker Report]	Only the JobCenter administrator can display the panel and change settings.	

5.10.5. Setting My Page (JobCenter Administrator)

Only when you log in as the JobCenter administrator, the [My Page Setting] button is displayed in the upper right of the [My Page] window. If you click this button, the [My Page Setting] dialog box appears.



Figure 5.102. Setting button (displayed only for the JobCenter administrator)

The [My Page Setting] dialog box lets you set the "limit mode".

The [My Page Setting] button is displayed only when the JobCenter administrator is referencing his or her own [My Page] window. If the JobCenter administrator is referencing another user by using the user switch function, the [My Page Setting] button is not displayed.

5.10.5.1. Limit Mode

The limit mode function allows a specified user to access only the [My Page] window. This function prevents operation errors and makes operations easy to perform. For example, suppose that only the [Tracker My List] panel is placed in the [My Page] window and that the My Page is intended only to reference the job networks registered in the My List. This way, the only operation that the user has to perform is to reference the trackers in the My List, which helps prevent the user from performing erroneous operations such as submitting the wrong job network.

5.10.5.1.1. Setting the Limit Mode

In the setting dialog box, specify the user for whom you want to set the limit mode. In the example shown below, the limit mode is set for "user1". After selecting a user, click the [Save] button to save the setting.

JobCenter CL/W	leb [UMS View Mode]		<u> </u>	jobcenter-manager	🛓 <u>nsumsmgr</u> 🕞
My Page Jobr	netv 3 Setting				
	Limited User	Limited User			
			user1 🕶		
		□Select all.			
		□npxjc	🖺 Sav	e l	
		□root	d to display only My Page.		
		✓ user1			
		□user2			

Figure 5.103. Specifying a limited user

/

It is also possible for the JobCenter administrator to make himself or herself a limited user. In that case, after the setting is saved, the information is automatically reloaded and the limited mode window is displayed.

When "user1" logs in after the setting is saved, only My Page is displayed. The limit mode takes effect when the target user logs in or when all pages are reloaded.

		0.04					
			My Page - JobCenter CL 🗙				£ \$ €
JobCent	ter CL/Web	[EUI View Mode]				<u>enter-manager</u>	
My Page							
i ≣ dai	ly batch		≎ ≡	ન ≣ only d	aily batch		о ≡
Name		Status	Action	Name	Status	Comment	Expecte
batch_1		DONE	Submit	daily_job1	DONE		2015/07,
daily_job1		DONE	Submit	daily_job2	DONE		2015/07,
daily_job2		DONE	Submit	daily_job1	DONE[ARCHIVED]		2015/07,
				batch_1	DONE		2015/07,
< Target User	:user1	_	>	10 Target User:user	✓ K ◀ Page 1, Period: 1Day(2015/0	e 1 of 1 ▶ 7/01 - 2015/07/01)	

Figure 5.104. When a limited user logs in (only My Page is displayed)

5.10.5.1.2. User Operations in the Limit Mode

In the limit mode, the user can operate only those panels that are placed in the [My Page] window. For example, when the [JNW My List] panel is placed, the user can reference the job network flows of the job networks registered in the JNW My List and submit those job networks.

Note that the user cannot add panels to the [My Page] window or change the JNW My List by using the [Panel Setting] dialog box. The JNW My List of the user in the limited mode is set by the JobCenter administrator.

5.10.5.1.3. Setting a Panel for the User in the Limit Mode

The JobCenter administrator needs to set in advance the panel to be placed in the [My Page] window of the target user, by using the user switch function. The JobCenter administrator can display the [My Page] window of the target user, by switching the user name in the upper right of his or her [My Page] window.



Only the JobCenter administrator can reference the [My Page] window of the target user by using the user switch function. A general user can reference only his or her own [My Page] window.

JobCenter CL/Web [UMS View Mode]			jobcenter	-manager	🛓 <u>nsumsmgr</u> 🕞
My Page Jobnety User Information	า				
Select User:					
nsumsmgr npxjc					
root					
user1 user2					
Permission:	U	(0) I			
JNW Reference		fOther User OK			
JNW Mererence JNW Modificati		OK			
JNW Submissio		OK			
Tracker Referen	:e: OK	OK			
Tracker Operat	on: OK	OK			
API Access Key	Vienlay				
API Access Rey	hspiay				
			Apply		

Figure 5.105. Switching users in the [My Page] window (from the JobCenter administrator to the limited user)

The following figure shows the window that is displayed when the JobCenter administrator "nsumsmgr" switches to the [My Page] window of the limited user "user1". The window has the user name "nsumsmgr(user1)" displayed on it and shows the content of the [My Page] window of "user1". If a panel is added or a setting is changed on this window, the change is also applied to the content displayed on the [My Page] window of the limited user "user1".

JobCenter C	L/Web [UMS View I	1ode]		Ē	jobcenter-manag	<u>er</u> 🛓 <u>nsumsmg</u> r	(user1) 🕞
My Page	Jobnetwork	Tracker	Schedule	Machine	Calendar		+
aily bat≣	ch	ۍ ۲	. ≡	⁺ ≣ only d	aily batch	÷	٦ ≡
Name	Status	,	Action	Name	Status	Comment	Expecte
batch_1	DONE	Ľ	Submit	daily_job1	DONE		2015/07,
daily_job1	DONE	4	Submit	daily_job2	DONE		2015/07,
daily_job2	DONE	£	Submit	daily_job1	DONE[ARCHIVED]		2015/07,
				batch_1	DONE		2015/07,
				<			>
<			>	10	✓ < < Pag	e 1 of 1 🕨 🕨	1 - 4 elem:
Target User:user1				Target User:use	r1, Period: 1Day(2015/0	07/01 - 2015/07/01)	

Figure 5.106. [My Page] window (when the JobCenter administrator displays and edits the [My Page] window of the limited user)

In the limit mode, the display result changes as shown below, depending on whether the login user is a limited user and whether the user is switched.

Login user		Whether the user is switched	Tabs displayed at the top	[Add Panel] button and setting button of each panel	[My Page Setting] button
JobCenter		Not switched	All tabs	Displayed	Displayed
administrator limited user)	(not	Switched	All tabs	Displayed	Not displayed
JobCenter		Not switched	Only My Page	Not displayed	Displayed
administrator (limited user)		Switched	Only My Page	Not displayed	Not displayed
General user	(not	Not switched	All tabs	Displayed	Not displayed
limited user)		Switched	All tabs	[My Page] window	Not displayed (The [My Page window itself cannot be referenced.)
General	user	Not switched	Only My Page	Not displayed	Not displayed
(limited user)		Switched	Only My Page	[My Page] window	Not displayed (The [My Page] window itself cannot be referenced.)

6 Details of Other Functions

This chapter describes the other functions of CL/Web in detail.



The descriptions in this chapter assume that TLS (SSL) is enabled. If TLS (SSL) is disabled, "https" in the URL of the CL/Web Server shown in the descriptions should be replaced with "http."

6.1. Details of the Mail Transmission Function

The mail transmission function allows the URL shown in the tracker status window to be sent to a specified mail address.

6.1.1. Configuring the SMTP Server

The file to be used to configure the SMTP server is the same as the CL/Web configuration file, clweb.conf, that is used when configuring the port to be used. For details, refer to Section 3.1.1, "CL/ Web Configuration File (clweb.conf)".

The items to be set differ depending on the settings of the SMTP server to communicate with. Check the settings of the SMTP server in use before configuring it.

The format of the clweb.conf file and the items to be set in relation to the SMTP server are as follows.

Parameter	Description	Туре	Value
\$mail_server	Specify the name of the SMTP server.	Character string	SMTP server name
\$mail_port	Specify the number of the port to be used for mail transmission.	Numerical value	25 (Note 1)
\$mail_domain	Specify the domain name of the SMTP server. The domain name is used in the HELO command.		SMTP server domain name
\$mail_authentication	Specify authentication for transmission. If authentication is not required, specify "none".	Character string	One of the "login" or "plain" or "cram_md5" or "none".
\$mail_username	Specify the login user name only when login is specified in \$mail_authentication.		Login user name
\$mail_password	Specify the login password only when login is specified in \$mail_authentication.		Login password
\$mail_from	Specify the mail address of the sender.	Character string	Mail address of the sender

Table 6.1. Values to be set for the clweb.conf parameters (SMTP server specification)



■Note 1: Default value

■When a character string is specified, it needs to be enclosed within double quotation marks.

■If a firewall exists in the machine where CL/Web Server is installed, you need to open a hole for the network port to be used by CL/Web Server.

The following is an example of configuration.

\$mail_server = "mail.something.com"

\$mail_port = 25
\$mail_domain = "something.com"
\$mail_authentication = "plain"
\$mail_username = "clweb@something.com"
\$mail_password = "clwebpass"
\$mail_from = "clweb@something.com"

6.1.2. Setting Character Code for Email

Although the default character code for sending email is UTF-8, it can be changed using the CL/Web configuration file, clweb.conf.

The format and setting items included in clweb.conf related to this setting are as follows:

Table 6.2. Values to be set for the clweb.conf parameters (for specifying character code for email)

Parameter	Description	Туре	Setting value
	This specifies whether the character code of email you send is the default UTF-8.		True (Default)

If \$mail_cahrset_utf8 is set to false, the following character code corresponding to each language locale is set.

Table 6.3.	Correspondence	between	language	locales	and	character	codes	in sent	email
------------	----------------	---------	----------	---------	-----	-----------	-------	---------	-------

Language locale	Character code of sent email
ja	ISO-2022-JP
en	US-ASCII
zh	GB18030

6.1.3. Mail Transmission Function

This section describes the mail transmission procedure.

1. Open the tracker window from which you want to send mail, and click the [Mail] button at the upper right of the display table.

obCent	er CL/W	eb [UMS Norr	nal Mode]				🗐 jobce	enter-manag	er 🔺 root 🛛
ly Page	Jobnetwork	Tracker	Schedule	Machine	Calendar			<u>Auto F</u>	Reload Of
daily_tre	eatment1 (2015/06/0	02 10:49):38)					Mail
Flow	List of Parts	Detail	Environr	nent Variable	Log				
Start	JOB	JOB -	<u>_</u>		JOB	End			
Start	pr_tre atment	main	Ó		af_tre atment				
			other	pr_tre					
				atment.					

Figure 6.1. Window where the [Mail] button is displayed

2. When the [Send Mail] dialog box opens, choose a mail template, enter the destination address, title, and body text as necessary, and then click [OK].

Set		×		
Template:	Notification of job network normal completion			
To:	test@abc.com			
Subject:	Notification form JobCenter - NextSubjob:subjob.20:			
From: JobCenter CL/Web (Notice of normal end) Status: DONE[ARCHIVED] Access the following URL to check the tracker. https://clweb- server/en/trackers/tracker/NextSubjob:subjob.20150628070000? s=jobcenter-manager&u=root				
	OK Can	cel		

Figure 6.2. [Send Mail] dialog box

The items to be set in the [Send Mail] dialog box are as follows:

■Template

A list of defined email templates is displayed. If the tracker status or the tracker part status is STOP(ERROR), DONE(ERRO), or KILLED, an email template in which \$mail_template_status in the header file indicates NG or a null character is displayed. If the tracker status or the tracker part status is other than STOP(ERROR), DONE(ERRO), or KILLED, an email template in which \$mail_template_status in the header file indicates OK or a null character is displayed.

∎To

Specify the address to which you sent the email. If an email template is selected, the address of the selected email template is displayed. If an email template is undefined, for the second or later transmissions, the address to which you sent mail last is displayed.

Multiple addresses can be specified by delimiting each of them by a comma (,).



If an email template is undefined, the address to which you sent mail last is saved as a cookie in the browser.

■Subject

Enter the title of the mail to be sent. If an email template is selected, the subject of the selected email template is displayed.

■Text body

Enter the text body of the mail to be sent. If an email template is selected, the content of the body file of the selected email template is displayed.



If an email template is undefined, by default, the message containing the URL information of the tracker is entered.

3. When the mail transmission confirmation dialog box opens, click [OK].

Mail Transmission	×
Send the mail?	
	⊘ОК

Figure 6.3. Mail transmission confirmation dialog box

4. When mail transmission succeeds, the mail transmission result dialog box opens.

6.1.4. Setting Email Template

Create and edit an email template by creating or editing an email template file.

Email template files are stored in the following location:

%InstallDirectory%\config\mail

Edit email template files in the following way:

1. Define the name of the email template file.

■When the language locale is Japanese:

Header files

template01_ja_head.def to template99_ja_head.def

Body files

template01_ja_body.def to template99_ja_body.def

■When the language locale is English:

Header files

template01_en_head.def to template99_en_head.def

Body files

template01_en_body.def to template99_en_body.def

■When the language locale is Chinese:

Header files

template01_zh_head.def to template99_zh_head.def

Body files

template01_zh_body.def to template99_zh_body.def

■Do not use capital letters in the file names.

- ■The numeric characters in the file names are from 01 to 99 and assigned in the order of display on the screen.
- ■There are up to 99 email templates for each language locale.
- 2. Define the character code of the email template file.

The character code of email template files should be UTF-8.



■Note that characters may be garbled when displayed on the screen if the email template file is created in the character code of Shift-JIS, JIS, or EUC.

3. Define the header file of the email template.

The format and setting items in the header file of email template are as follows:

Parameter	Description	Туре	Example
\$mail_template_name	Defines the name of the email template.	Character string	Notification of job network normal completion
\$mail_template_status	Defines the status of the email template by specifying one of the following: OK, NG, and null character. (Note 1)	string	ОК
\$mail_template_sendto	Define the address to which to send email of the email template. Two or more addresses can be specified by delimiting by using commas (",").	string	test@abc.com
\$mail_template_subject	Define the subject of the email template.	Character string	Notification form JobCenter - #{@track_id}/ #{@job_name}

Table 6.4.	Values set	to header	file of em	ail template
------------	------------	-----------	------------	--------------



■Note 1: If you want to display the email template when the tracker status or the tracker part status is STOP(ERROR), DONE(ERRO), or KILLED, set the status of the email template to NG.

If you want to display the email template when the tracker status or the tracker part status is other than STOP(ERROR), DONE(ERRO), or KILLED, set the status of the email template to OK.

If you want to display the email template unconditionally, set the status of the email template to null character.

The following is an example of the header file of an email template:

```
$mail_template_name = "Notification of job network normal completion"
$mail_template_status = "OK"
$mail_template_sendto = "test@abc.com"
$mail_template_subject = "Notification form JobCenter - #{@track_id}/#{@job_name}"
```

4. Define the body file of the email template.

There is no predefined format for the body file of the email template. The following is an example:

```
From: JobCenter CL/Web (Notice of normal end)
Status: #{@job_status}
Access the following URL to check the tracker.
#{@url}
```

5. Define the replaceable character strings in the email template file.

Replaceable character strings in the header files and the body files are as follows:

Table 6.5. Replaceable character strings in the email template fil	ile	
--	-----	--

Setting	Description	Туре	Example replacement
#{@url}	The URL of reference screen is output.	Character string	https://clwebhost/en/ trackers/parts/UJOB/ Jnw.20130829055101/ JOB1?s=machine&u=user
#{@track_id}	The tracker ID is output.	Character string	Jnw.20130829055101
#{@job_name}	The job network name or the part name is output.	Character string	JOB1
#{@job_status}	The tracker status name or the part status name is output.	Character string	DONE [ARCHIVED]
6.2. Macro Functions

This section describes the CL/Web macros that can be used with the MG/SV mail transmission function.

6.2.1. Macro Functions (MG/SV)

By using the %trkpath% and %partspath% macros that can be used in the title and text body of the mail transmission function of JobCenter MG, the URL for referencing a tracker from the CL/Web Server can be included in the text body of the mail.

■Setting the macro

When using a macro, you need to specify "https://<address or URL>/en".

Specify the macro as follows:

https://<CL/Web Server host name or IP address>/en%trkpath%



■Case study

To send the URL of the tracker window where an error occurred to the person in charge





- Case study 1 is described below.
- 1. A job error occurs in JobCenter SV.
- 2. The MG mail function sends the person in charge a mail notification in which the tracker URL information of CL/Web is written by the macro.

- 3. Upon receiving the mail, the person in charge clicks the tracker URL.
- 4. The web browser starts, and the person in charge checks the error job and takes action.
- Setting examples

Item to be set	Value
CL/Web machine name	jobmachine
CL/Web machine IP address	192.168.20.1
JobCenter SV user name	testuser
Error job name	testjob
Tracker name	testjob.20120615140000

- Mail setting example in JobCenter CL/Win
- 1. Set the macro for the machine name in the title and the macros for the URL of the tracker window and the URL information of the tracker part window in the text body in advance. For information about the mail settings for JobCenter CL/Win, refer to in <Basic Guide>Section 15.2, "Reporting an Error to a Specified Destination by Mail".

w Paramete	er Envrironment Variable Send mail setting
۲	ON OFF
то	jc-admin@sample.jp
CC	ic-admin@sample.jp
FROM	jobcenter-user@sample.jp
Subject	JobCenter %occur%error occured
Message	error occurred tracker URL ***********************************
SMTP Ser	ver [cserver]

Figure 6.5. Mail setting window example for CL/Win

Item	Example
Subject	JobCenter %occur%error occurred.
Message	For information about the error, check the following:
	error occurred tracker URL
	https://192.168.20.1/en%trkpath%

ltem	Example			
	error occurred tracker job URL			
	https://192.168.20.1/en%partspath%			

2. If an error occurs, the function of MG sends mail to the address set in step 1.

• (Example) Received mail

```
Title:
An error occurred in JobCenter jobmachine.
Text body:
For information about the error, check the following:
- Error tracker URL
https://192.168.20.1/en/trackers/tracker/testjob.20120615140000?
s=jobmachine&u=testuser
- Error tracker part URL
https://192.168.20.1/en/trackers/parts/UJOB/testjob.20120615140000/JOB1?
s=jobmachine&u=testuser
```

3. Upon receiving the mail, the person in charge clicks the URL. When the CL/Web login window opens, the person in charge logs in by entering the password for the displayed server name.



By default, the window has the server name and user name already entered.

6.2.2. Event Linkage

By using the %trkpath% and %partspath% macros that can be used for event linkage, the URL for referencing a tracker from the CL/Web Server can be output to an event message.

For information about event linkage settings, refer to in <Environment Guide>Chapter 11, $\table{linkage}$.

In the following case study, an example of linkage with the HPOM product is described.

■Case study

To view error information on the web browser window in the case of an event



- Figure 6.6. Case study 2
- Case study 2 is described below.
- 1. A job error occurs in JobCenter SV.
- 2. The HPOM product notifies the event.
- 3. The tracker URL information of CL/Web is displayed in the message of the message viewer.
- 4. The person in charge clicks the URL or copies and pastes the URL to the address bar of the web browser to check the error and take action.
- Setting examples

Item to be set	Value
CL/Web machine name	jobmachine
CL/Web machine IP address	192.168.20.1
JobCenter SV user name	testuser
Error job name	testjob
Tracker name	testjob.20120615140000

1. In the event definition file, specify the format of the event to be output to the event transmission destination.

When a unit job ends with an error

EVENT jnwsv.uj.err 0x2003 JNW_UNITJOB_ERROR "https://192.168.20.1/en%trkpath%"

- 2. If an event occurs, the URL of the tracker window is displayed on the integrated monitoring terminal. The person in charge clicks the URL or copies and pastes the URL to the address bar of the web browser to execute the browsing.
- 3. When the CL/Web login window opens, the person in charge logs in by entering the password for the displayed server name.

6.3. Other User Monitoring Function

This section describes other user monitoring function.

6.3.1. Function Overview

Other user monitoring function enables referencing and operating the definition information of other users if permitted by the permission.

6.3.2. Procedure for Switching to Other Users

Switch to other users as follows:

1. After logging in to the CL/Web Server, click the user name at the upper right corner on the screen to display the user information screen.



Figure 6.7. Clicking user name

2. In the [User Information] dialog box, select the user name to which you want to switch from the pull-down menu of [Select User], and then click [OK].

G S JC https://clweb-server/en/jnws#	0 - 6	C JC JNW List - JobCenter CL ×				x k Ø
JobCenter CL/Web [UMS Normal Mode			jobcenter-	<u>manager</u>	root	▶ ^
My Page Jobnetwo User Information						
Belect User:					٩	
root				Comme		
nsumsmgr						
User Name:		root				
Authority Group Nam	e:JobCent	er Manager				
Permission:						
		Ither User				
JNW Reference:	OK	OK				
JNW Modification:	OK	OK				
JNW Submission:	OK	OK				
Tracker Reference:		OK				
Tracker Operation:	OK	ОК				
API Access Key Disp	lay					
			Apply	ression		
		age Land of 1 / / / / / 1 - 4 ele	ements are displayed i	(total: 4).		~

Figure 6.8. Select user name

3. You can refer to the definition and other information of the user you have switched to.

C https://clweb-serve	er/en/user/nsumsmgr/jnw: 🖍	JC JNW List - JobCenter CL	× ↑ ★ ₽
JobCenter CL/We	b [UMS Normal Mode]	ioba	center-manager 💄 root (nsumsmgr) 🕞 🗛
My Page Jobnetwork	Tracker Schedule	Machine Calendar	
Root UnitJnw	nsumsmgr: /		٩
	Name	Parent Group	Comment
	Search:	Name 🗸 🗌 Ignore case	Search using a regular expression
		Page 1 of 1 D M O	

Figure 6.9. After switching to another user

6.4. WebAPI Function

This section describes the Web-based API function that uses the HTTP/HTTPS protocol.

6.4.1. Function Overview

The main WebAPI functions are shown below:

Category	Function	Description
Job network reference	Obtains job network list.	For details, refer to Section 6.4.4.1, "Obtaining Job Network List".
Job network operation	Submits a job network immediately.	For details, refer to Section 6.4.4.2, "Immediate Job Network Submission".
Tracker reference	Obtains a tracker list.	For details, refer to Section 6.4.4.3, "Obtaining Tracker List".
	Obtains a tracker part list.	For details, refer to Section 6.4.4.4, "Obtaining Tracker Part List".
	Obtains a tracker status.	For details, refer to Section 6.4.4.5, "Obtaining Tracker Status".
	Draws tracker flows.	For details, refer to Section 6.4.4.6, "Obtaining Tracker Flow".
Tracker operation	Operates tracker parts.	For details, refer to Section 6.4.4.7, "Execution of Tracker Part Control Instruction".
	Operates trackers.	For details, refer to Section 6.4.4.8, "Execution of Tracker Control Instruction".

6.4.2. Overview of WebAPI Introduction

By introducing WebAPI, you can construct job network reference and immediate submission, tracker status reference, and other functions with your own screens.

You can construct your own screens using application servers with CGI and provide them to your clients.

The API functions can be used only while the CL/Web Server and JobCenter are running. If there is any inconsistency in the operation of API functions, check the startup status of the CL/Web Server, MG/SV, etc.

■Effects of WebAPI introduction

Previously, it was necessary to log in to the CL/Web and perform operation based on its screen specifications. If you introduce WebAPI, you can provide your own screens to your clients. This will enable the clients to display screens specialized for specific trackers and perform various necessary operations together.



Figure 6.10. Effects of WebAPI introduction

General users access AP servers from clients, and developers create screens that handle those accesses. In the development of those screens, JobCenter information can be included via the CL/Web Server by using WebAPI, if necessary.

6.4.3. Flow of WebAPI Utilization

The CL/Web Server provides Web API functions that use HTTP.

If you send HTTP requests to the CL/Web Server in a specific format, you can obtain and control the information described in Section 6.4.1, "Function Overview".

This WebAPI supports two types of authentication methods: API access key authentication and HTTP authentication.

6.4.3.1. API Access Key Authentication

For authentication of MG/SV users who use WebAPI, an API access key is set to the relevant HTTP request parameter. The API access key is created at the first login to the CL/Web Server and is retained in the CL/Web Server.

The API access key consists of 40-byte character string. When requested by the user, it is initialized and a new 40-byte character string is created.

The API access key is not a key created by encoding user information, password information, etc. Therefore, the password and user name cannot be restored even if the API access key is divulged.

If the user password is changed in MG/SV, log in to CL/Web as the user whose password is changed. After the login, the API key and the new password are associated and enabled. If you use the API key before logging in to CL/Web, the HTTP request causes an error.

6.4.3.2. Referencing the API Access Key

Reference an access key as follows:

1. After logging in to the CL/Web Server, click the user name at the upper right corner on the screen to display the User Information dialog box.

JC https://clweb-serve	r/en/user/root/jnws 🏾 🔎 🗕 🖒 JC	JNW List - JobCenter CL ×	☆
JobCenter CL/Wel	D [UMS Normal Mode]		🚦 jobcenter-manager 💄 root 🕞
My Page Jobnetwork	Tracker Schedule Machine	Calendar	
		Culciluu	
E Coot	/		٦
	Name	Parent Group	Comment
	daily_patch	/	
	end_of_month_start_job_list	1	
	monthly_patch	1	
	test_job_list	/	
	_		
	<		
	Search: Name	🗸 📃 Ignore case 📃 Searc	ch using a regular expression
	Q, 50 ♥		
	Page 1	of 1 V 1 • 4 eler	ments are displayed (total: 4).



2. Click [Display] on the user information screen to display the access key information screen.

				_ _ X
← → JC https://clweb-server/en/user/root/jnws#	, ب م	G C JNW List - JobCenter CL ×		☆★ ☆
JobCenter CL/Web [UMS Normal Mode	1		iobcenter-m	anager 💄 root 🕞 🔺
My Page Jobnetwo User Information				
🕀 🖿 Root				
Belect User:				٦
root				Comment
User Name:		root	_	
Authority Group Nam	e:JobCent	ter Manager	_	
Permission:			_	
	ser Self(Other User	_	
JNW Reference:	ОК	ОК	_	
JNW Modification:	OK	ок	_	
JNW Submission:	OK	ОК	_	
Tracker Reference:	OK	ОК	_	
Tracker Operation:	OK	OK	_	
			_	
	_			
API Access Key Disp				
				\rightarrow
			Apply	ssion
		age 🔟 of 1 🔽 🖊 🔍 1 - 4 ek	ements are displayed (to	al: 4). 🗸
	_			

Figure 6.12. Clicking the [KEY] button

3. The access key is the character string of 40 characters displayed to the right of API access key on the API Access Key Information window.

If you want to initialize the key, click the [Reset] button. A new key is created and the old key is no longer available. (After clicking the [Reset] button, check the API access key again.)

			_ X
C https://clweb-	server/en/user/root/jnws# $\mathcal{P} = \bigcirc$ JC JNW List - JobCenter CL ×		n ★ ₽
JobCenter CL/V	Neb [UMS Normal Mode]	jobcenter-	manager 💄 root 🕞 🔨
1	User Information		
😟 🖿 Root	Select User:		٩
	root	~	Comment
	User Name: root Authority Group Name:JobCenter Manager		
	Permission:		
	User SelfOther User		
	JNW Reference: OK OK		
	JNW Modification: OK OK		
	JNW Submission: OK OK		
	Tracker Reference: OK OK		
	Tracker Operation: OK OK API Access Key Display		
	Server Name: jobcenter-manager User Name: root API Access Kev:072f32 Bcb5c4534		>
	API Access Key:072f32 3cb5c4534		ression
		Reset Key	otal: 4).

Figure 6.13. API Access Key Information window

6.4.3.3. HTTP Authentication (Basic Authentication)

For authentication of MG/SV users who use WebAPI, you can use HTTP authentication where authentication is done based on the MG/SV user name and the password after the HTTP request.

If an access is done with the target MG/SV host name being specified in the HTTP request, the status code 401 is returned in the response header and, if it is received by the browser, a screen for inputting the user name and password is displayed. If the user name and the password are authenticated correctly, the specified API function is performed.

Windows Security	/									
The server 172.16.235.128 at hanabi requires a username and password.										
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).										
	User name Password Remember my credentials									
	OK Cancel									

Figure 6.14. HTTP authentication screen

Access can be done with the user name and the password specified in the request header. In this case, the requested response can be obtained without the status code 401 being returned.

Because Basic authentication is used, specify the Base64-encoded information (Authorization: Basic xxxxxxxxxx) in the request header. For Ruby, the following code can specify it:

response = Net::HTTP.start(\$hostname, \$port) { http
<pre>req = Net::HTTP::Get.new(URI.escape(uri_str))</pre>
req.basic_auth username, password if username && password
http.request(req)
}



For authentication, specify one of "API access key" or "MG/SV host name".

6.4.4. WebAPI Function Details

This section describes the HTTP request specifications for the functions described in Section 6.4.1, "Function Overview" respectively.

In the WebAPI functions provided by CL/Web, information is acquired and instructions are executed by executing the GET method of HTTP/1.1. The request header (the request line and Host) of GET method is described below as the specifications. The request body does not need to be specified.

If subdirectories are specified, the host name specified for the Host also needs to include subdirectories. For details about the subdirectories, refer to Section 3.1.4, "Setting Subdirectory of URL".

Specify the parameter and the query in the request line of the Get method. Be sure to specify the parameter. The query can be omitted for some items. A sample is shown below:



Figure 6.15. GET method setting items

(1) The parameter <language locale> described in the request specifications is common in all the functions. Specify one of the following:
 "ja" is specified for <language local>

 -> Information can be obtained in Japanese.
 "en" is specified for <language local>
 -> Information can be obtained in English.
 "zh" is specified for <language local>
 -> Information can be obtained in English.

 "zh" is specified for <language local>
 -> Information can be obtained in Chinese.
 (2) The parameter <host name> described in the request specifications is common in all the functions. Specify the host name as follows:
 -> Host name of the CL/Web Server[:<port number>]

6.4.4.1. Obtaining Job Network List

■Function description

This is the API that enables to obtain a job network list. Data can be obtained in the json format.

For example, the following screen can be created.

	http://hanshi	/cgi/b_sample	1.ml 0	C 🖉 (5.547)	ist - Root
JNW List]	neeps77 nanabi	/cgi/b_sample	1.10 /0 1		ist - Koot
Froup name: Root					
Number of pages : 1 Number of data : 22					
Operat	ion	Name	Туре	Group	Comment
Open		DailyTask	Group	/	
Open		MonthyTask	Group	/	
Display flow	Submit	JNW01	Jobnetwork	/DailyTask	
Display flow	Submit	JNW02	Jobnetwork	/DailyTask	
Display flow	Submit	JNW03	Jobnetwork	/DailyTask	
Display flow	Submit	JNW04	Jobnetwork	/DailyTask	
Display flow	Submit	JNW05	Jobnetwork	/DailyTask	
Display flow	Submit	JNW06	Jobnetwork	/DailyTask	
Display flow	Submit	JNW07	Jobnetwork	/DailyTask	
Display flow	Submit	JNW08	Jobnetwork	/DailyTask	
Display flow	Submit	JNW09	Jobnetwork	/DailyTask	
Display flow	Submit	JNW10	Jobnetwork	/DailyTask	
Display flow	Submit	JNW11	Jobnetwork	/MonthyTask	
Display flow	Submit	JNW12	Jobnetwork	/MonthyTask	
Display flow	Submit	JNW13	Jobnetwork	/MonthyTask	
Display flow	Submit	JNW14	Jobnetwork	/MonthyTask	

Figure 6.16. Example of job network list display

■HTTP request specifications

For API access key authentication

```
GET /<language locale>/jnws/group/<group name>?key=<API access key>&format=json&page=<page
number>&rp=<number of elements per page>&node=all HTTP/1.1
Host: <host name>
```

URL sample

https://hostname.com/en/jnws/group/Root/Newgroup1?
key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=json&page=3&rp=50&node=all

For HTTP authentication

```
GET /<language locale>/jnws/group/<group name>?mghost=<MGSV server
address>&format=json&page=<page number>&rp=<number of elements per page>&node=all HTTP/1.1
Host: <host name>
Authorization: Basic xxxxxxxxxx
```

URL sample

https://hostname.com/en/jnws/group/Root/Newgroup1?
mghost=mghostname.com&format=json&page=3&rp=50&node=all

Parameter

Parameter details to be set are described below.

<group name>

Specify the group name to be obtained, from the root.

Example: /Root/Newgroup1 (Display the list of job networks under Newgroup1, which is associated with Root)

■Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Specify "json".

page query

Specify the page number as an integer number that is one or more.

If the specified page does not exist, no element is displayed.

rp query

Specify the number of elements displayed per page as an integer number that is one or more.

node=all query (can be omitted)

If you want to obtain job networks that are associated with groups still more under the specified group, specify the query "node=all". If this query is not specified, only information immediately under the group name can be obtained.

■HTTP response specifications

- Normal end
 - Header part

Status code: 200

• Body section

When the process ends normally, the json data as shown below is returned to the body section.

→"page": Page number

→"total": Number of obtained data items

→"rows": Obtained data row. Data is stored in the form of "rows":[{"cell":[…]},{"cell":[…]},.....].

→"cell": One data item of the job network list. Data is stored in the form of "cell": ["name","type","associated group","comment"].

An example of data returned to the body section is shown below.

```
"page": 1,
"total": 13,
"rows": [
  {
    "cell": [
       "group 1",
      "group",
"/",
       "comment 1"
    ]
  },
  {
    "cell": [
       "NewJnw10",
       "job network",
       "/group 1",
       "comment 2"
    ]
  },
  . . .
  {
    "cell": [
       "network 3",
       "job network",
       "/group 1",
"comment 2"
    ]
  }
]
```

Abnormal end

When the process ends abnormally, the following response is returned.

Status code	Error message	Error cause			
400	{"msg":"Failed in obtaining data: }	The specified group does not exist.			
401	HTTP Basic: Access denied.	HTTP authentication failed.			
403	{"msg":"Not authorized to reference the job network."}	The user is not authorized to reference the JNW.			
403	{"msg":"API access key is wrong."}	The access key is not valid.			

	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.
403		The user name or the password input for API authentication or HTTP authentication is wrong.

■Notes

The obtained json data contains not only job networks but also groups and shortcuts.

6.4.4.2. Immediate Job Network Submission

■Function description

Specified job networks can be immediately submitted.

For example, the following screens can be included as a button operation.

	http://hanabi	/cai/h samnle	1 rh 0 -	C 🖉 INW I	ist Deat
JNW List		regivit_sample	1.10 200		ist - Koot
Froup name: Root Number of pages :					
Number of data : 2.					
Opera	ation	Name	Туре	Group	Comment
Open			Group	/	
Open		MonthyTask	Group	/	
Display flow	Submit	JNW01	Jobnetwork	/DailyTask	
Display flow	Submit	JNW02	Jobnetwork	/DailyTask	
Display flow	Submit	JNW03	Jobnetwork	/DailyTask	
Display flow	Submit	JNW04	Jobnetwork	/DailyTask	
Display flow	Submit	JNW05	Jobnetwork	/DailyTask	
Display flow	Submit	JNW06	Jobnetwork	/DailyTask	
Display flow	Submit	JNW07	Jobnetwork	/DailyTask	
Display flow		JNW08	Jobnetwork	/DailyTask	
Display flow		JNW09	Jobnetwork	/DailyTask	
Display flow		JNW10	Jobnetwork	/DailyTask	
Display flow		JNW11	Jobnetwork	/MonthyTask	
				/MonthyTask	
Display flow				/MonthyTask	
Display flow					
Display flow	Submit	JNW14	Jobnetwork	/MonthyTask	

Figure 6.17. Example of immediate job network submission

■HTTP request specifications

For API access key authentication

```
GET /<language locale>/jnws/jnw/<job network name>/submit?key=<API access
key>&format=json&jobparam=<Job parameter>&comment=<comment>&stime=<submit
time>&initflag=<prior set> HTTP/1.1
Host: <host name>
```

URL sample

```
https://hostname.com/en/jnws/jnw/NewJnw1/submit?
key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=json&jobparam=params_test&comment=test_comment&stime=
    16:21&initflag=hold
```

For HTTP authentication

```
GET /<language locale>/jnws/jnw/<job network name>/submit?mghost=<MGSV server
address>&format=json&jobparam=<Job parameter>&comment=<comment>&stime=<submit
time>&initflag=<prior set> HTTP/1.1
Host: <host name>
Authorization: Basic xxxxxxxxxx
```

URL sample

```
https://hostname.com/en/jnws/jnw/NewJnw1/submit?
mghost=mghostname.com&format=json&jobparam=params_test&comment=test_comment&stime=2013/06/26
16:21&initflag=hold
```

■Parameter

Parameter details to be set are described below.

< < job network name>

Specify the name of the job network to be submitted immediately.

■Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Specify "json".

• jobparam query (can be omitted)

Specify the value to be set to the job parameter.

comment query (can be omitted)

Specify comments.

stime query (can be omitted)

Specify the job network submission time. The format is "YYYY/MM/DD hh:mm".

YYYY: Calendar year (four-digit number)

MM: month (two-digit number)

DD: day (two-digit number)

hh: hour (two-digit number)

mm: minute (two-digit number)

* For consistency of the number of digits, specify "02", not "2".

This query can be omitted. If this is not set, the job network is submitted immediately.

initflag query (can be omitted)

Specify the initial job status. You can specify "hold", "skip", or "off". This parameter can be omitted. "hold": The job starts in the hold state. "skip": The job starts in the skip state.

"off": This specifies normal execution.

This query can be omitted. If this is not set, the operation is that of "off".

■HTTP response specifications

- Normal end
 - Header section

Status code: 200

• Body section

When the process ends normally, the json data as shown below is returned to the body section.

->"msg": Success message of "jnw control ok"

->"trkid": Tracker ID

An example of data returned to the body section is shown below.

{"msg":"jnw control ok","trkid": "NewJnw1.20130704024501"}

Abnormal end

When the process ends abnormally, the following response is returned.

Table 6.8. Error list

Status code	Error message	Error cause					
400	{"msg":"Failed in control: }	The specified JNW does not exist.					
401	HTTP Basic: Access denied.	HTTP authentication failed.					
403	{"msg":"Not authorized to submit the job network."}	The user is not authorized to submit JNWs.					
403	{"msg":"API access key is wrong."}	The access key is not valid.					
403	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.					
403	{"msg":"The user name or the password is wrong."}	The user name or the password input for API authentication or HTTP authentication is wrong.					

■Notes

None

6.4.4.3. Obtaining Tracker List

■Function description

A list of specified trackers can be obtained.

For example, the following screen can be created.

Fracker List]													
Group name: Root Number of pages : 1 Number of data : 7													
Operation	Name	Status	Comment	Expected start time	Expected end time	Start time	End time	User	Machine	Group			
Display flow	<u>JNW04</u>	RUN[ERROR]		2013/12/16 14:26:45	2013/12/16 14:26:45	2013/12/16 14:26:45		Administrator	jcserver	/DailyTask			
Display flow	<u>JNW05</u>	HOLD		2013/12/16 14:27:20		2013/12/16 14:27:21		Administrator	jcserver	/DailyTask			
Skip V Operate	JNW11	DONE		2013/12/16 14:27:40	2013/12/16 14-27-40	2013/12/16	2013/12/16	A dministrator	inconter	MonthyTask			
Display flow Skip V Operate	<u>314 W 11</u>	DONE		2013/12/10 14.27.40	2013/12/10 14.27.40	14:27:40	14:27:40	Administrator	Jeserver	/wonury rask			
Display flow	<u>JNW12</u>	RUN		2013/12/16 14:28:01		2013/12/16 14:28:01		Administrator	jcserver	/MonthyTask			
Skip V Operate													
Display flow		DONE [ERROR] [ARCHIVED]		2013/12/16 14:27:05	2013/12/16 14:27:05	2013/12/16 14:27:05	2013/12/16 14:27:05	Administrator	jcserver	/DailyTask			
Display flow Skip VOperate	JNW01			2013/12/16 14:26:15	2013/12/16 14:26:15	2013/12/16 14:26:16	2013/12/16 14:26:16	Administrator	jcserver	/DailyTask			
Display flow	<u>JNW02</u>	DONE [ARCHIVED]		2013/12/16 14:26:19		2013/12/16 14:26:19	2013/12/16 14:26:19	Administrator	jcserver	/DailyTask			

Figure 6.18. Example of tracker list display

■HTTP request specifications

For API access key authentication

```
GET /<language locale>/trackers/group/<group path>?key=<API access key>&format=json&page=<page
number>&rp=<number of elements per page>&node=all&subjnw=1&start_date=<display start
date>&start_time=<display start time>&period_unit=<display start format>&period_num=<numerical
specification> HTTP/1.1
Host: <host name>
```

URL sample

```
https://hostname.com/en/trackers/group/Root/NewGroup1?
key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=json&page=3&rp=50&node=all&subjnw=1&start_date=2013/0
```

For HTTP authentication

```
GET /<language locale>/trackers/group/<group path>?mghost=<MGSV server
address>&format=json&page=<page number>&rp=<number of elements per
page>&node=all&subjnw=1&start_date=<display start date>&start_time=<display start
time>&period_unit=<display start format>&period=<numerical specification> HTTP/1.1
Host: <host name>
Authorization: Basic xxxxxxxxxx
```

URL sample

```
https://hostname.com/en/trackers/group/Root/NewGroup1?
mghost=mghostname.com&format=json&page=3&rp=50&node=all&subjnw=1&start_date=2013/07/13&start_time=11:45&
```

■Parameter

Parameter details to be set are described below.

<group path>

Specify the path for the group to which the referenced tracker belongs.

■Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Set "json".

page query

Specify the page number as an integer number that is one or more.

If the specified page does not exist, no element is displayed.

rp query

Specify the number of elements displayed per page as an integer number that is one or more.

node=all query (can be omitted)

If you want to obtain all the tracker information under the specified tracker, specify node=all.

subjnw=1 query (can be omitted)

Specify subjnw=1 if you want to obtain sub job network.

start_date query

Specify the tracker display start date. The format is "YYYY/MM/DD". (Be sure to include slashes ("/").)

Example: If trackers on July 13th in 2013 and later are referenced, input "2013/07/13" to this query.

start_time query (can be omitted)

Specify the tracker display start time. The format is "hh:mm". (Be sure to include a colon (":").)

Example: If trackers from 9:45 are referenced, input "09:45" to this query.

This query can be omitted. If omitted, information is referenced by the default value "00:00".

period_num query

Specify a numerical value in the unit specified in the unit query.

Example: If "month" is specified in the period_unit query and "2" is specified in the period_num query, trackers during two months from the date specified in the date query are displayed.

period_unit query

Specify the format for the period from the start date. You can select from 5 formats, "month", "week", "day", "hour", and "min".

month: Trackers during the "period_num" months from the start date and time are displayed. Specify a number between 1 and 3.

week: Trackers during the "period_num" weeks from the start date and time are displayed. Specify a number between 1 and 5.

day: Trackers during the "period_num" days from the start date and time are displayed. Specify a number between 1 and 7.

hour: Trackers during the "period_num" hours from the start date and time are displayed. Specify a number between 1 and 23.

min: Trackers during the "period_num" minutes from the start date and time are displayed. Specify a number between 1 and 59.

■HTTP response specifications

- Normal end
 - Header section

Status code: 200

• Body section

When the process ends normally, the json data as shown below is returned to the body section.

->"page": Page number

->"total": Number of obtained data items

->"summary": The summary of trackers is stored here, and "planned number of executions", "number of processes in execution", "number of executions normally ended", and "number of executions abnormally ended" are stored in the [] in this order.

->"rows": Data row of the obtained tracker list. The data is stored in the form of "rows": [{"status":...,"id":xx,"cell":[...]}, {"status":...,"id":xx,"cell":[...]},].

->"status": Status of tracker

->"id": Number in tracker list (in the rows)

->"cell": Detailed tracker information. The data is stored in the form of "cell":["job network name","execution status","status","tracker ID","comment","planned start time","planned end

time","actual start time","actual end time","executing user","executing server name","associated group"].

An example of data returned to the body section is shown below.

{

```
"page": 1,
"total": 49,
"summary": [
 1,
  1,
  42,
  3,
  2
],
"rows": [
  {
    "status": "run,D",
    "id": 0,
    "cell": [
      "jc-11623_jnw_waitexfile",
"dialog",
      "status-dia",
      "jc-11623_jnw_waitexfile.20130611052202",
""
      "2013/06/11 14:22:02",
      "2013/06/11 14:22:02",
      "2013/06/11 14:22:03",
      "username",
      "hostname.com",
      "/jc-11623_grp"
    ]
 },
  {
    "status": "run,fr",
    "id": 1,
    "cell": [
      "jc-11655_jnw",
      "STOP(ERROR)",
      "status-stop",
"jc-11655_jnw.20130411064108",
""
      "2013/04/11 15:41:08",
      "2013/04/11 15:41:08",
      "2013/04/11 15:41:08",
      "",
      "username",
      "hostname.com",
"/jc-11655_grp"
    ]
 },
           . . .
  {
```

```
"status": "done,ad",
    "id": 48,
    "cell": [
      "jc-11651_jnw",
      "DONE [ARCHIVED]",
      "status-done",
      "jc-11651_jnw.20130409023122",
      "2013/04/09 11:31:22",
      "2013/04/09 11:31:22",
      "2013/04/09 11:31:23",
      "2013/04/09 11:31:29",
      "username",
      "hostname.com",
      "/jc-11651_grp"
    ]
  }
]
```

Abnormal end

}

When the process ends abnormally, the following response is returned.

Status code	Error message	Error cause
400	{"msg":"Failed in obtaining data:}	The specified group does not exist.
401	HTTP Basic: Access denied.	HTTP authentication failed.
403	{"msg":"Not authorized to reference the tracker."}	The user is not authorized to reference the tracker.
403	{"msg":"API access key is wrong."}	The access key is not valid.
403	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.
403	{"msg":"The user name or the password is wrong."}	The user name or the password input for API authentication or HTTP authentication is wrong.
403	{"msg":"Failed in setting the period."}	The specified date and time are wrong.
403	{"msg":"Set period_num to an integer 1 or more."}	A non-integer is set to period_num.
403	{"msg":"Set period_num to a period from xxx to zzz."}	A numerical value outside the specified range is input to period_num.
403	<pre>{"msg":"Set period_unit to month, week, day, hour, or min."}</pre>	The unit specified for period_unit is wrong.

Table 6.9. Error list

■Notes

Trackers before the start date and time are not displayed. If trackers you want to display are not displayed, check the start date and time.

6.4.4.4. Obtaining Tracker Part List

■Function description

A list of specified tracker part can be obtained.

For example, the part list screen in the following screen can be created (the section surrounded by the red frame).



Figure 6.19. Example of tracker details display

■HTTP request specifications

For API access key authentication

```
GET /<language locale>/trackers/tracker/<tracker ID>?key=<API access
    key>&format=json&page=<page number>&rp=<number of elements per page>&view=parts_table HTTP/1.1
Host: <host name>
```

URL sample

```
https://hostname.com/en/trackers/tracker/jc-11651_jnw.20130409023122?
key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=json&page=3&rp=50&view=parts_table
```

For HTTP authentication

```
GET /<language locale>/trackers/tracker/<tracker ID>?mghost=<MGSV server
address>&format=json&page=<page number>&rp=<number of elements per page>&view=parts_table
HTTP/1.1
```

Host: <host name> Authorization: Basic xxxxxxxxxxx

URL sample

https://hostname.com/en/trackers/tracker/jc-11651_jnw.20130409023122?
mghost=mghostname.com&format=json&page=3&rp=50&view=parts_table

Parameter

Parameter details to be set are described below.

<Tracker ID>

Specify the tracker ID.

■Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Specify json.

page query

Specify the page number as an integer number that is one or more.

If the specified page does not exist, no element is displayed.

rp query

Specify the number of elements displayed per page as an integer number that is one or more.

view query

Specify parts_table.

- ■HTTP response specifications
 - Normal end
 - Header section

Status code: 200

• Body section

When the process ends normally, the json data as shown below is returned to the body section.

- ->"page": Page number
- ->"total": Number of obtained data

->"jnwstatus": The status of job networks is stored here. The data is stored in the form of "jnwstatus": {"status":status,"extstat":execution status}.

->"rows": Data row of the obtained tracker part list. The data is store in the form of "rows": [{"status":...,"id":xx,"cell": [...]},{"status":...,"id":xx,"cell": [...]},].

->"status": Status of part

->"id": Number in part list (in the rows)

->"cell": Detailed tracker part information. The data is stored in the form of "cell": ["part name","English type","Japanese type","Japanese status","English status","planned start time","planned end time","actual start time","actual end time","executing server name"].

An example of data returned to the body section is shown below.

```
{
  "page": 1
  "total": 100,
  "jnwstatus": {
    "status": "done",
    "extstat": "ad"
  },
  "rows": [
    {
      "status": "done,-",
      "id": 0,
      "cell": [
        "JOB98",
        "UJOB",
        "unit job",
        "DONE",
        "status-done",
        "2013/04/11 15:52:18",
        "2013/04/11 15:52:18"
        "2013/04/11 16:40:22"
        "2013/04/11 16:40:34",
        "hostname.com"
      1
    },
    {
      "status": "done,-",
      "id": 1,
      "cell": [
        "JOB99",
        "UJOB",
        "unit job",
        "DONE",
        "status-done",
        "2013/04/11 15:52:18",
        "2013/04/11 15:52:18"
        "2013/04/11 16:40:34",
        "2013/04/11 16:40:46",
        "hostname.com"
      1
    },
```

```
. . .
  {
    "status": "done,-",
    "id": 99,
     "cell": [
       "JOB97",
       "UJOB",
       "unit job",
       "DONE",
       "status-done",
       "2013/04/11 15:52:18",
       "2013/04/11 15:52:18",
"2013/04/11 16:40:09",
       "2013/04/11 16:40:21",
       "hostname.com"
    ]
  }
],
```

Abnormal end

}

When the process ends abnormally, the following response is returned.

Status code	Error message	Error cause
400	{"msg":"The specified tracker does not exist."}	The specified group does not exist.
401	HTTP Basic: Access denied.	HTTP authentication failed.
403	{"msg":"Not authorized to reference the tracker."}	The user is not authorized to reference the tracker.
403	{"msg":"API access key is wrong."}	The access key is not valid.
403	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.
403	{"msg":"The user name or the password is wrong."}	The user name or the password input for API authentication or HTTP authentication is wrong.

Table 6.10. Error list

■Notes

None

6.4.4.5. Obtaining Tracker Status

■Function description

The status (detailed parameters) of the specified tracker can be obtained.

For example, the status display section in the following screen can be created. (The section surrounded by the red frame)

(C)	//hanabi/cgi/b_sample1.rb	<u>)</u> ۲-۹	🗿 Tracker 1	flow (deta	il) - JNW	×				🕁 🛠		
[Tracker flow (detail): JNW01.201312	16053733]								^		
										^		
			_	_								
(Start -	E-JOBE-	JOB	(E)-	JOI		End						
	JOB1	JOB5	T	JOB	9							
					_							
	JOB	JOB		JOI								
	JOB2	JOB6		JOB	10							
					_							
	JOB	JOB		_ JOI								
	JOB3	JOB7		JOB	11							
					_							
		JOB		JOI	<u> </u>							
	JOB4	JOB8		JOB	12							
			_							- C.		
	letail information		Name	Туре	Status	Expected start time	Expected end time	Start time	End time	Machine		
Comment Name	JNW01		JOB10	Unit job l	DONE	2013/12/16 14:37:33	2013/12/16 14:37:33	2013/12/16 14:37:35	5 2013/12/16 14:37:3	6 jcserver		
User	Administrator					2013/12/16 14:37:33						
Machine	hanabi		JOB11	Unit job I	DONE	2013/12/16 14:37:33	2013/12/16 14:37:33	2013/12/16 14:37:35	5 2013/12/16 14:37:3	6 jcserver		
						2013/12/16 14:37:33				· ·		
* Current statu						2013/12/16 14:37:33						
Status	DONE		JOB3	Unit job I	DONE	2013/12/16 14:37:33	2013/12/16 14:37:33	2013/12/16 14:37:34	4 2013/12/16 14:37:3	4 jcserver		
Tracker ID Expected Start	JNW01.20131216053733 Time 2013/12/16 14	27.22				2013/12/16 14:37:33						
Expected Start						2013/12/16 14:37:33						
Start Time	2013/12/16 14:37:34					2013/12/16 14:37:33						
End Time	2013/12/16 14:37:36					2013/12/16 14:37:33						
RequestID	-			-		2013/12/16 14:37:33						
			JOB9	Unit iob I	DONE	2013/12/16 14:37:33	2013/12/16 14:37:33	2013/12/16 14:37:35	5 2013/12/16 14:37:3	5 icserver		
Reload back										~		
<										>		

Figure 6.20. Example of tracker details display

■HTTP request specifications

For API access key authentication

```
GET /<language locale>/trackers/tracker/<tracker ID>?key=<API access
  key>&format=json&view=detail HTTP/1.1
Host: <host name>
```

URL sample

```
https://hostname.com/en/trackers/tracker/jc-11651_jnw.20130409023122?
key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=json&view=detail
```

For HTTP authentication

```
GET /<language locale>/trackers/tracker/<tracker ID>?mghost=<MGSV server
address>&format=json&view=detail HTTP/1.1
Host: <host name>
```

Authorization: Basic xxxxxxxxxxx

URL sample

```
https://hostname.com/en/trackers/tracker/jc-11651_jnw.20130409023122?
mghost=mghostname.com&format=json&view=detail
```

Parameter

Parameter details to be set are described below.

<Tracker ID>

Specify the tracker ID.

■Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Specify json.

view query

Specify detail.

■HTTP response specifications

- Normal end
 - Header section

Status code: 200

• Body section

When the process ends normally, the json data as shown below is returned to the body part.

->"detail": Tracker information is stored here.

An example of data returned to the body section is shown below.

{ "detail": "*JNW tracker detailed information comment Name jc-11661_archive_jnw User username1 Machine hostname.com

* Current status

Status DONE [ARCHIVED]
Tracker ID jc-11661_archive_jnw.20130411065218
planned start time 2013/04/11 15:52:18
actual start time 2013/04/11 15:52:20
actual end time 2013/04/11 16:40:59
request ID _"
}

Abnormal end

When the process ends abnormally, the following response is returned.

Status code	Error message	Error cause	
400	{"msg":"The specified tracker does not exist."}	The specified group does not exist.	
401	HTTP Basic: Access denied.	HTTP authentication failed.	
403	{"msg":"Not authorized to reference the tracker."}	The user is not authorized to reference the tracker.	
403	{"msg":"API access key is wrong."}	The access key is not valid.	
403	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.	
403	{"msg":"The user name or the password is wrong."}	The user name or the password input for API authentication or HTTP authentication is wrong.	

Table 6.11. Error list

■Notes

None

6.4.4.6. Obtaining Tracker Flow

■Function description

This can obtain a script that draws the flow of the specified tracker.

For example, the flow in the following screen can be displayed. (The section surrounded by the red frame)



Figure 6.21. Example of tracker details display

■HTTP request specifications

For API access key authentication

GET /<language locale>/trackers/flow/<tracker ID>?key=<API access key>&format=html HTTP/1.1 Host: <host name>

URL sample

https://hostname.com/en/trackers/flow/jc-11651_jnw.20130409023122? key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=html

• For HTTP authentication

GET /<language locale>/trackers/flow/<tracker ID>?mghost=<MGSV server address>&format=html HTTP/1.1 Host: <host name> Authorization: Basic xxxxxxxxxx URL sample

```
https://hostname.com/en/trackers/flow/jc-11651_jnw.20130409023122?
mghost=mghostname.com&format=html
```

■Parameter

Parameter details to be set are described below.

<tracker ID>

Specify the tracker ID.

■Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Specify "html".

- ■HTTP response specifications
 - Normal end
 - Header section

Status code: 200

• Body section

When the process ends normally, the html data as shown below is returned to the body section.

<script src="https://192.168.34.32/assets/application-29dae6e564c77ae1fc999e3a09d1f3c0.js" type="text/javascript"></script>

For example, HTML files can be created on the CGI side and the screens are passed to the clients as the HTML below.

Include the script returned to the head section dynamically and embed div tags at the point you want drawing.

```
< ! DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title>JNW flow drawing - jc-11623_jnw_waitjnw</title>
<! --From here, include returned HTML dynamically-->
<script src="https://192.168.34.32/assets/application-29dae6e564c77ae1fc999e3a09d1f3c0.js"
type="text/javascript"></script>
<! --To here-->
```

```
</head>
<body>
<h3>[JNW flow drawing: jc-11623_jnw_waitjnw]</h3>
< ! --From here, div tag embedded for drawing. id must be jc_area.-->
<div id="jc_area" style="height: 600px; width: 98%;">
<div id="jc_area" style="height: 600px; width: 98%;">
<div id="msg" class="flash error"></div>
<div id="jnw-canvas"></div>
</div>
<! --To here-->
</body>
</html>
```



As for the setting values of style in the div tag such as height and width, adjust them in each Web application.

Abnormal end

When the process ends abnormally, the following response is returned.

Status code	Error message	Error cause	
400	{"msg":"The specified tracker does not exist."}	The specified group does not exist.	
401	HTTP Basic: Access denied.	For HTTP authentication failed.	
403	{"msg":"Not authorized to reference the tracker."}	The user is not authorized to reference the tracker.	
403	{"msg":"API access key is wrong."}	The access key is not valid.	
403	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.	
403	{"msg":"The user name or the password is wrong."}	The user name or the password input for API authentication or HTTP authentication is wrong.	

Table 6.12. Error list

Notes

Set the height and the width of div tag according to the environment. If not set, the flow drawing might be corrupted.

The div tag can be made common in all tracker flows (section that can be statically implemented).

6.4.4.7. Execution of Tracker Part Control Instruction

■Function description

By specifying a tracker ID, this can make parts of the tracker execute a control instruction.

For example, the following screens can be included as a button operation.

+ Definition of the second sec	ク・ C 🦉 Tracker flow - JNW16.2013 ×	🟠 🛣
[Tracker flow: JNW16.2013121605562	4]	~
JOB3 - Unit job - WAIT	V Skip V Operate	
Start JOB C:TMP JOB1 Varg	JOB 0 DIA1 EVENTS ND1	
	other JOB2	
	JOB	
C.ITMP \targ	JOB3	
Reload Back		
Keload		>



■HTTP request specifications

For API access key authentication

```
GET /<language locale>/trackers/parts/<part type>/<tracker ID>/<part name>/<instruction
  content>?key=<API access key>&format=json HTTP/1.1
Host: <host name>
```

URL sample

```
https://hostname.com/en/trackers/parts/ujob/jc-11651_jnw.20130409023122/job1/skip?
key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=json
```

For HTTP authentication

```
GET /<language locale>/trackers/parts/<part type>/<tracker ID>/<part name>/<instruction
  content>?mghost=<MGSV server address>&format=json HTTP/1.1
Host: <host name>
Authorization: Basic xxxxxxxxxx
```
URL sample

https://hostname.com/en/trackers/parts/ujob/jc-11651_jnw.20130409023122/job1/skip?
mghost=mghostname.com&format=json

■Parameter

Parameter details to be set are described below.

<part type>

Specify a part type for which an instruction is executed from the following:

[
Part name	Part content
UJOB	"unit job"
BIJOB	"BI job"
ERPJOB	"ERP job"
WOBSJOB	"WOBS job"
PCJOB	"PC job"
CUSTOMJOB	"custom job"
DIA	"dialog"
CONT	"continue"
SJNW	"sub job network"
WJOB	"job waiting"
WTIME	"time waiting"
WSJNW	"job network waiting"
WFILE	"file waiting"
EVTSND	"event transmission"
EVTRCV	"event reception"

Table 6.13. Part list

<tracker ID>

Specify the target tracker ID.

<part name>

Specify the name of the part for which the instruction is executed.



Data obtained by the part list obtaining function may be in the form of "xxx (part name)". In this case, specify the part name in "()".

<instruction content>

Specify an instruction content from the following. Executable instructions are limited depending on parts.

Table 6.14. Instruction list

instruction name	instruction content

skip	"skip"
noskip	"release skip"
hold	"hold"
release	"release hold"
estop	"forced stop"
forcestart	"forced start"
rerun	"rerun"
suspend	"suspend"
resume	"release suspend"
start_immediat	"run (immediately)"
start_asap	"run (ASAP)"
ok	"OK"
error	"ERROR"
restart	"restart"
freecontrol	"release control"
statusdone	"change to be considered as normal"

■Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Specify "json".

- ■HTTP response specifications
 - Normal end
 - Header section

Status code: 200

• Body section

When the process ends normally, the json data as shown below is returned to the body section.

->"msg": Tracker part control result is stored here.

{"msg":"tracker parts control ok"}

Abnormal end

When the process ends abnormally, the following response is returned.

Status code	Error message	Error cause
400	{"msg":"Failed in controlling parts: invalid args "}	The specified tracker control command does not exist.
400	{"msg":"Failed in controlling parts: "}	The specified tracker does not exist or control of tracker failed.
401	HTTP Basic: Access denied.	HTTP authentication failed.
403	{"msg":"Not authorized to reference the tracker."}	The user is not authorized to reference the tracker.
403	{"msg":"API access key is wrong."}	The access key is not valid.
403	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.
403	{"msg":"The user name or the password is wrong."}	The user name or the password input for API authentication or HTTP authentication is wrong.

■Notes

The combination of parts and executable instructions is as follows:

Table 6.16.	ujob:"unit	job"
-------------	------------	------

Instruction name	Processing content
skip	"skip"
noskip	"release skip"
hold	"hold"
release	"release hold"
suspend	"suspend"
resume	"release suspend"
estop	"forced stop"
forcestart	"forced start"
rerun	"rerun"
restart	"restart"
freecontrol	"release control"
statusdone	"change to be considered as normal"

Table 6.17. erpjob:"ERP job"

Instruction name	Processing content
skip	"skip"
noskip	"release skip"
hold	"hold"
release	"release hold"
cancel	"cancel"

forcestart	"forced start"
start_immediat	"run (immediately)"
start_asap	"run (ASAP)"
rerun	"rerun"
statusdone	"change to be considered as normal"

Table 6.18. bijob:"BI job"

Instruction name	Processing content
skip	"skip"
noskip	"release skip"
hold	"hold"
release	"release hold"
forcestart	"forced start"
rerun	"rerun"
statusdone	"change to be considered as normal"

Table 6.19. pcjob:"PC job"

Instruction name	Processing content
skip	"skip"
noskip	"release skip"
hold	"hold"
release	"release hold"
forcestart	"forced start"
rerun	"rerun"
statusdone	"change to be considered as normal"

Table 6.20. wobsjob:"WOBS job"

Instruction name	Processing content
skip	"skip"
noskip	"release skip"
hold	"hold"
release	"release hold"
estop	"forced stop"
forcestart	"forced start"
rerun	"rerun"
freecontrol	"release control"
statusdone	"change to be considered as normal"

Table 6.21. dia:"dialog"

Instruction name	Processing content
skip	"skip"
noskip	"release skip"

ok	"Ok"
error	"Error"
rerun	"rerun"
statusdone	"change to be considered as normal"

Table 6.22. wait:"job waiting"

Instruction name	Processing content
skip	"skip"
noskip	"release skip"
rerun	"rerun"
statusdone	"change to be considered as normal"

Table 6.23. event:"event"

Instruction name	Processing content
skip	"skip"
noskip	"release skip"
hold	"hold"
release	"release hold"
estop	"forced stop"
forcestart	"forced start"
rerun	"rerun"
statusdone	"change to be considered as normal"

Table 6.24. cont:"continue"

Instruction name	Processing content
hold	"hold"
release	"release hold"
statusdone	"change to be considered as normal"

6.4.4.8. Execution of Tracker Control Instruction

■Function description

This executes an instruction to the specified tracker.

For example, the following screens can be included as a button operation.

T		abi/cgi/b	_sample1.rb		遵 Tracker List - Root	t ×					fh ☆ \$
Tracker	Listj										/
roup name: F umber of pag umber of dat	es : 1										
Ор	eration	Name	Status	Comment	Expected start time	Expected end time	Start time	End time	User	Machine	Group
	ay flow	<u>JNW04</u>	RUN[ERROR]		2013/12/16 14:26:45	2013/12/16 14:26:45	2013/12/16 14:26:45		Administrator	jcserver	/DailyTask
Skip	✓ Operate	DITIO	TIOLD		2012/12/16 11 27 20	2012/12/16 11 27 20	2012/12/16				
Displ Skip	ay flow Operate	<u>JNW05</u>	HOLD		2013/12/16 14:27:20	2013/12/16 14:27:20	14:27:21		Administrator	jcserver	/DailyTask
	ay flow	<u>JNW12</u>	RUN		2013/12/16 15:00:09	2013/12/16 15:05:10	2013/12/16		Administrator	jcserver	/MonthyTask
orce stop	✓ Operate						10.00.00				
	ay flow V Operate	<u>JNW16</u>	RUN[WAIT]		2013/12/16 14:56:24	2013/12/16 14:56:24	2013/12/16 14:56:24		Administrator	jcserver	/MonthyTask
Hold		JNW04	DONE		2013/12/16 14:27:05	2013/12/16 14:27:05	2012/12/16	2012/12/16	Administrator		/DailyTask
Displ	ay flow Operate		[ERROR] [ARCHIVED]		2013/12/10 14.27.03	2013/12/10 14.27.03	14:27:05	14:27:05	Administrator	jeserver	/Daily Lask
Displ	ay flow	<u>JNW11</u>	DONE [ARCHIVED]		2013/12/16 14:27:40	2013/12/16 14:27:40	2013/12/16 14:27:40	2013/12/16 14:27:40	Administrator	jcserver	/MonthyTask
Skip	 Operate 										
Displ Skip	ay flow	<u>JNW13</u>	DONE [ARCHIVED]		2013/12/16 14:32:19	2013/12/16 14:32:19	2013/12/16 14:32:20	2013/12/16 14:32:20	Administrator	jcserver	/MonthyTask
	ay flow	<u>JNW14</u>	DONE [ARCHIVED]		2013/12/16 14:32:22	2013/12/16 14:32:22	2013/12/16 14:32:22	2013/12/16 14:32:22	Administrator	jcserver	/MonthyTask
	ay flow	JNW15	DONE [ARCHIVED]		2013/12/16 14:32:30	2013/12/16 14:32:30	2013/12/16	2013/12/16	Administrator	jcserver	/MonthyTask

Figure 6.23. Example of tracker stop instruction screen

■HTTP request specifications

• For API access key authentication

```
GET /<language locale>/trackers/tracker/<tracker ID>/<instruction content>?key=<API access
key>&format=json HTTP/1.1
Host: <host name>
```

URL sample

https://hostname.com/en/trackers/tracker/jc-11651_jnw.20130409023122/estop? key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi&format=json

• For HTTP authentication

```
GET /<language locale>/trackers/tracker/<tracker ID>/<instruction content>?mghost=<MGSV server
address>&format=json HTTP/1.1
Host: <host name>
Authorization: Basic xxxxxxxxxx
```

URL sample

https://hostname.com/en/trackers/tracker/jc-11651_jnw.20130409023122/estop?
mghost=mghostname.com&format=json

■Parameter

Parameter details to be set are described below.

<tracker ID>

Specify the target tracker ID.

<instruction content ID>

Specify the content of instruction to the tracker.

Instruction name	Processing content
estop	"forced stop"
hold	"hold"
release	"release hold"
skip	"skip"
noskip	"release skip"

Query

Query details to be set are described below.

key query

Specify the API access key when authentication by API access key is performed.

mghost query

Specify the host name (IP address) of the MGSV server when HTTP authentication is performed.

format query

Specify "json".

■HTTP response specifications

- Normal end
 - Header section

Status code: 200

• Body section

When the process ends normally, the json data as shown below is returned to the body section. ->"detail": Tracker information is stored here.

{"msg":"tracker control ok"}

Abnormal end

When the process ends abnormally, the following response is returned.

Status code	Error message	Error cause
400	{"msg":"Failed in controlling trackers: "}	The specified tracker does not exist or control of tracker failed.
401	HTTP Basic: Access denied.	HTTP authentication failed.
403	{"msg":"Not authorized to reference the tracker."}	The user is not authorized to reference the tracker.
403	{"msg":"API access key is wrong."}	The access key is not valid.
403	{"msg":"Communication with server failed. Confirm that JobCenter MG/SV is running."}	MG/SV has not been started.
403	{"msg":"The user name or the password is wrong."}	The user name or the password input for API authentication or HTTP authentication is wrong.

Table 6.26.	Error	list
-------------	-------	------

■Notes

Do not perform the stop instruction continually.

6.5. Amazon SNS Linkage Function

This section describes the function of linkage with Amazon Simple Notification Service (hereafter SNS).

6.5.1. Function Overview

Message transmission service Amazon SNS supports message transmission via HTTP or HTTPS.

This function immediately submits a job network from the CL/Web server when CL/Web receives a message from SNS.

For example, if the system is designed so that an instance failure on AWS is detected (<1>) and the message is automatically transmitted via SNS (<2>), the job network for recovery can be submitted (<3>).



Figure 6.24. Image of the SNS linkage function

To use the message transmission service, you need to subscribe to and publish the topic. In this document, "topic", "to subscribe to the topic", and "to publish the topic" are defined as below.

Торіс	a communication channel through which a topic message is sent and a notification is received
Subscribe to the topic	to perform the registration needed to receive the message that was published in response to the topic
Publish the topic	to send a message to the URL at which the user has subscribed to the topic.

Use of this function requires that the CL/Web server be ready to accept HTTP or HTTPS requests from SNS.

6.5.2. Flow of Using the Amazon SNS Linkage Function

This section describes the steps needed to use this function.

Before starting the setting, prepare the following:

■The name of the job network to be submitted when a message is received from SNS

■The API access key of the user who has the above job network

For how to examine the API access key, refer to Section 6.4.3.2, "Referencing the API Access Key".

The API access key includes information about the target JobCenterMG and user name. Note that if the user names are identical but the MGs are different, the API access keys are different.

6.5.2.1. Subscribing to the Topic

To receive messages from SNS, you need to subscribe to the topic.



Figure 6.25. Subscription to the topic

Below are the steps from manually creating a new SNS topic on the AWS management console to completing the subscription.

- 1. Open the AWS management console in the Web browser, and select SNS from the service list.
- 2. The [SNS Home] screen appears. Select [Topics] from the left pane.
- 3. The [Topics] screen appears. Click the [Create new topic] button.
- 4. A dialog box appears. Enter [Topic name] and [Display name], and then click the [Create topic] button.

The topic is created and added to the topic list.

- 5. Click the created topic on the [ARN] column in the topic list.
- 6. The [Topics Details] screen appears. Click [Create Subscription].
- 7. A dialog box appears. Specify [Protocol] and [Endpoint].

For [Protocol], select HTTP if the CL/Web server has been set for an HTTP server, or select HTTPS if it has been set for an HTTPS server.

Specify [Endpoint] in the following format:

http(s)://<CL/Web host name>/ja/jnws/jnw/<JNW name to be submitted>/aws/sns?key=<CL/Web API
access key>

Example: If [Protocol] is HTTP, the CL/Web host name is "clwebserver.local", the JNW name to be submitted is "SNS_linkage", and the API access key is "dsfvoeishfhseiofhoseihfiosheiofhsioehfi"

http://clwebserver.local/ja/jnws/jnw/SNS_linkage/aws/sns?
key=dsfvoeishfhseiofhoseihfiosheiofhsioehfi

After specifying this, click the [Create Subscription] button.

The one added to the subscription list appears, and the subscription confirmation process starts.

8. When the subscription ID appears in [Subscription ID] in the subscription list, the subscription confirmation is completed.

If the subscription confirmation process is not completed with "PendingConfirmation" displayed in [Subscription ID], check the following:

- ■[Protocol] was specified correctly.
- ■The URL in [Endpoint] is correct.
- The CL/Web API access key is valid.
- ■If [Protocol] is HTTPS, the CL/Web server uses a server certificate that contains the signature of a certifying body accredited by Amazon SNS.

More than one subscription can be set for a single topic. More than one JNW can thus be submitted for publication of a single topic.

Message transmission cannot be achieved by specifying a specific subscription for a single topic. Thus, create the topic according to the type of the JNW to be submitted.

6.5.2.2. Publishing the Topic

After publishing the topic, you can send an HTTP or HTTPS request message from Amazon SNS to the URL at which the user has subscribed to this topic.

Below are the steps to manually publish the SNS topic from the AWS management console.

- 1. Open the AWS management console in the Web browser, and select SNS from the service list.
- 2. The [SNS Home] screen appears. Select [Topics] from the left pane.
- 3. The [Topics] screen appears. From the topic list, select the topic to be subjected to the publication process, and click the check box located on the left of its name.

After the box is checked, click the [Publish topic] button.

4. The [Publish a message] screen appears. Specify [Subject], [Message format], and [Message].

For [Subject], specify any character strings.

For [Message format], specify "Raw".

[Message] is set to the job parameter of the job network that is submitted immediately. It can be referenced, as environment variable NSJNW_PARAM, from each unit job. Thus, enter a valid character string for the job parameter.

After specifying this, click the [Publish message] button.

Once "Message published with request id..." appears, the message transmission process is complete.

5. Check that the job network has been submitted.

If the job network has not been submitted, check the following:
 The CL/Web API access key specified during topic subscription setting is still valid.
 There exists the JNW name specified during topic subscription setting.
 The user who has the job network to be submitted has the authority to execute the JobCenter job network.
 A character string that is valid for the job parameter was entered in [Message].

7 Information Collection at Failure Occurrence

When a failure occurs in the CL/Web Server, use the command "clweb_getinfo" to completely collect primary information necessary for cause investigation.

For details about the clweb_getinfo command, refer to "7.2 clweb_getinfo - Collecting all necessary information for investigation when the CL/Web Server failed" in the <Command Reference> (Japanese only).

8 Notes and Restrictions

This chapter describes the notes and restrictions concerning CL/Web.

8.1. Notes

- ■When installing CL/Web Server, you need to assign a number to the port that will use the TLS(SSL) protocol and open a hole in the firewall.
- ■When you attempt to connect to the default CL/Web Server, a connection cannot be established from a browser for which only SSLv3 is enabled. Set the browser to enable TSL. (In Internet Explorer or Firefox, TSL is enabled by default.) If you want to change settings so that a connection can also be established using SSL, refer to Section 3.1.2, "Setting the Port to Use".
- ■To specify the firewall setting to the CL/Web Server program instead of to a port, in the Windows environment, open a hole in the firewall by using one of the following files after installing CL/Web Server.

<CL/Web installation path>\vendor\cmnd\win\amd64\clweb_serv.exe

8.2. Restrictions

■The path used to start the CL/Web installer and the installation path specified when installing CL/ Web must not include any multibyte character. If CL/Web is installed in an UNIX environment, the installation path must not include space characters as well as multibyte characters.

9 Error Message List

This chapter describes the error messages that may be displayed in a dialog box or other window when you are operating CL/Web.

There are a large number of error messages. Described below are the selected error messages, possible causes, and actions.

Note that the error messages shown herein may be slightly different from the actual messages.

9.1. CL/Web Server Error Messages

This section describes the error messages that may be displayed for the CL/Web Server.

Table 9.1. CL/Web Server error messages		Table 9.1.	CL/Web	Server	error	messages	
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Error message	Possible error cause and action	Related operation
Cannot find Java 1.5 or higher.	The Java JRE is not found.	Installation
	If the JRE is not installed, install it.	
	If this message is displayed even when the JRE is installed, set the JRE	
	installation path in the environment variable JAVA_HOME before installing CL/Web Server.	
Cannot locate Java installation, specified by JAVA_HOME	The specification of the environment variable JAVA_HOME is invalid.	Installation
	Check that the JRE installation path is correctly set in the environment variable JAVA_HOME.	
LicenseManager is not found. Please install LicenseManager.	LicenseManager is not installed.	Installation
	Install LicenseManager before installing CL/Web Server.	
no such a directory(<directory path="">)</directory>	The parent directory of the specified installation directory does not exist.	Installation
	Create the directory before installing CL/Web Server.	
" <directory path="">" already exists and is not an empty directory.</directory>	The specified installation directory is not empty.	Installation
	Change the installation directory, or make the directory empty.	
Permission denied - <directory path=""></directory>	Data cannot be written to the specified installation directory.	Installation
	Check the access permission for the installation directory.	
Only Administrator can execute this command.	An installation attempt was made by a user other than the local administrator.	Installation
	To install CL/Web, log in as the local administrator.	

9.2. Web Browser Error Messages

This section describes the error messages that may be displayed for the web browser.

Web browser error message	Possible error cause and action
The server name is empty.	The server name is not entered.
	Enter the correct server name.
entered at the end of a password. An opening	You cannot enter an odd number of double slashes (\\) at the end of a password. You cannot enter an opening curly brace ({) without entering any closing curly brace (}) after that.
	Change the password so that it does not end with an odd number of double slashes (\\) or contain an opening curly brace ({) when there is no closing curly brace (}) after that.
The user name is empty.	The user name is not entered.
	Enter the correct user name.
The password is empty.	The password name is not entered.
	Enter the correct password name.
Communication with the server failed. Check the	
server name.	Enter the correct server name.
The user name or password is invalid.	The specified user name or password is invalid.
	Enter the correct user name and password.
Failed to send the mail.	The SMTP server settings may be invalid.
	Correct the SMTP server settings.
Communication with the server failed. Check whether lab center $MC(S)$ is active	JobCenter MG/SV is inactive.
whether JobCenter MG/SV is active.	Start JobCenter MG/SV.
The specified page is not found.	The specified page does not exist.
	If the URL is directly entered, check the entered URL.
Job network reference permission was denied.	There is no job network reference permission.
	Check your CL/Win permission settings to see whether you have permissions to list and view job networks.
Tracker reference permission was denied.	There is no tracker reference permission.
	Check your CL/Win permission settings to see whether you have permissions to list and view trackers.
Schedule reference permission was denied.	There is no schedule reference permission.

	Check your CL/Win permission settings to see whether you have permission to list and view job networks.
Trigger reference permission was denied.	There is no trigger reference permission.
	Check your CL/Win permission settings to see whether you have permission to list and view job networks.
Failed to get information.	The processing for collecting the information to be displayed in the My Page panel failed.
	Check whether the JobCenter MG/SV has started normally.
One or more items need to be selected in Tracker Status Detail.	An attempt was made to save the content of the [Tracker My List Setting] dialog box for the My Page without selecting any item in "Tracker Status Detail".
	Select one or more items in "Tracker Status Detail".
The job network reference permission and execution permission, as well as the tracker reference permission and operation permission, are necessary.	
	Check the CL/Win permission settings to make sure that the user is authorized to list and reference job networks and trackers.
Internet Explorer cannot display the webpage.	There is a problem with the communication with the CL/Web Server.
	Check the connected destination, whether the CL/ Web Server service is active, and the web browser settings. For details about the web browser settings, refer to Section 3.2, "Web Browser".

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