FUJITSU Cloud Service K5 COLMINA Platform
User Guide
(Version 1.0.1)
<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0.0</td>
<td>First issued</td>
<td>Jan. 26, 2018</td>
</tr>
<tr>
<td>1.0.1</td>
<td>Correction of additional function</td>
<td>Jun. 29, 2018</td>
</tr>
</tbody>
</table>
Preface

Thank you for considering the FUJITSU Cloud Service K5 COLMINA Platform (called "this service" below). This document, the FUJITSU Cloud Service K5 COLMINA Platform User Guide (called "this document" below), is intended for customers who have signed a contract for this service or are deploying this service. We ask for your understanding regarding the following matters.

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<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLMINA</td>
<td>Abbreviation for COLlaborative Monozukuri IINovation Agent. It is Fujitsu's digital place for manufacturing.</td>
<td></td>
</tr>
<tr>
<td>Data Visualization powered by Intelligent Dashboard</td>
<td>Fujitsu's solution to support overall optimization and also visualization across entire factories. The optimization will lead to business solutions in the manufacturing industry, and the visualization effectively uses IoT.</td>
<td></td>
</tr>
<tr>
<td>Tenant ID</td>
<td>ID for each tenant. It is issued when the contract is signed.</td>
<td></td>
</tr>
<tr>
<td>Dashboard screen</td>
<td>Screen displaying Intelligent Dashboard. It can display data hierarchically by unit (country, region, factory, line, facility, etc.) or in a graph.</td>
<td></td>
</tr>
<tr>
<td>Drill down</td>
<td>Operation to go down in the level of data aggregation, one by one. It moves from summary data to more detailed data.</td>
<td></td>
</tr>
<tr>
<td>Service application number (service contract ID)</td>
<td>Application number for this service. It is issued when the contract is signed.</td>
<td></td>
</tr>
<tr>
<td>Factory ID</td>
<td>ID of a factory to be visualized for use with Intelligent Dashboard. The service user is asked to decide an arbitrary ID when signing the contract.</td>
<td></td>
</tr>
<tr>
<td>Factory name</td>
<td>Name of a factory to be visualized for use with Intelligent Dashboard. The service user is asked to decide an arbitrary name when signing the contract.</td>
<td></td>
</tr>
<tr>
<td>Sequential performance data</td>
<td>Performance data produced/generated at a factory, etc.</td>
<td></td>
</tr>
<tr>
<td>Performance data by minute</td>
<td>Performance data from aggregating Sequential performance data every minute on the COLMINA Platform.</td>
<td></td>
</tr>
<tr>
<td>Performance data by hour</td>
<td>Performance data from aggregating Sequential performance data every hour on the COLMINA Platform.</td>
<td></td>
</tr>
<tr>
<td>Performance data by shift</td>
<td>Performance data from aggregating Sequential performance data every shift on the COLMINA Platform.</td>
<td></td>
</tr>
<tr>
<td>Performance data by day</td>
<td>Performance data from aggregating Sequential performance data every day on the COLMINA Platform.</td>
<td></td>
</tr>
<tr>
<td>Performance data by week</td>
<td>Performance data from aggregating Sequential performance data every week on the COLMINA Platform.</td>
<td></td>
</tr>
<tr>
<td>Performance data by month</td>
<td>Performance data from aggregating Sequential performance data every month on the COLMINA Platform.</td>
<td></td>
</tr>
<tr>
<td>Performance data by fiscal year</td>
<td>Performance data from aggregating Sequential performance data every fiscal year on the COLMINA Platform.</td>
<td></td>
</tr>
<tr>
<td>CSV edit tool</td>
<td>Excel tool. It is used during master maintenance in Intelligent Dashboard. You can download it from the K5 portal site.</td>
<td></td>
</tr>
<tr>
<td>Card</td>
<td>Data information displayed at an arbitrary location on the screen</td>
<td></td>
</tr>
<tr>
<td>Breadcrumb trail (topic paths)</td>
<td>Tracking list showing screens in hierarchical order. The list indicates the respective screens, such as the Intelligent Dashboard screen, displayed after a screen transition from the list.</td>
<td></td>
</tr>
<tr>
<td>Standard set screen</td>
<td>At the beginning of service after the contract is concluded, the screen appearing after login is called a standard set screen. It is a template screen commonly provided to any tenant.</td>
<td></td>
</tr>
<tr>
<td>D3 graph</td>
<td>Graph drawing tool.</td>
<td></td>
</tr>
<tr>
<td>FQDN</td>
<td>Abbreviation for Fully Qualified Domain Name Abbreviation for fully qualified domain name, such as host name, domain name (sub domain name), etc. It is a description format specified without omitting everything.</td>
<td></td>
</tr>
</tbody>
</table>
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Chapter 1  FUJITSU Cloud Service K5 COLMINA Platform

1.1.  What is the COLMINA Platform?

1.1.1.  Overview

This service provides a platform for total connections from factories to maintenance sites. This platform service receives and stores (saves and accumulates) data sent from factories and elsewhere to make full use of the data. The stored data can be visualized with a data visualization service that uses Data Visualization powered by Intelligent Dashboard, enabling timely management of normal and abnormal conditions throughout a factory (across multiple factories if there is more than one factory).

- COLMINA Portal
  Provides access to COLMINA Platform and COLMINA Service functionalities. Following operations are available in COLMINA Portal screen:
  - User management (add, edit and delete)
  - Data reception status confirm
  - Service usage statistics (disk usage)
  - Access to data visualization service (Intelligent Dashboard)

- Data reception and storage
  Using APIs provided by this service, users can receive and store internal factory information as structured information for visualizing sites and processes.

- Authentication function
  Using the authentication function provided by this service, users can be authenticated with a user name and password to receive data and access the data visualization service. The authentication function is realized by using the K5 authentication function. For details, there is a description of the authentication function in the "Security Related Information" of the K5 manual page (https://k5-doc.jp-east-1.paas.cloud.global.fujitsu.com/doc/en/service_doc.html), and the setting items for using the authentication function are described in the "K5 Portal Overview" section of the "K5 Portal User Guide".

- Data visualization
  You can visualize stored information from every angle. The COLMINA Platform provides Data Visualization powered by Intelligent Dashboard (abbreviated as "Intelligent Dashboard" below) as a data visualization service.
1.1.2. Features

A feature of the data reception and storage is cloud storage for the structured data (data in CSV format) produced and generated in factories and elsewhere. A service user can store the data on the cloud through an API. The user creates a sending program to allow access to the API. When data is received as a CSV file on the cloud, the reception outcome is recorded in the data arrival record table. Even if the data is received as an error for some reason, it is recorded as data in the data arrival record. The error data is not stored. So the cloud can store just the normal data. As a feature of visualization, this service can visualize normal and abnormal conditions throughout a factory and display alarms in a timely manner. This can improve the speed of improvement and streamline management.

Screen design settings, user authority management, and data output can be included in the master maintenance function. The screen design settings allow screen additions and changes. With these settings, you can define up to 10 screens per hierarchy (country to region to factory to line to facility and so on), which allows you to drill down through screen transitions. By defining stored data in a hierarchy and period (by hour, by year, by month, or by day) for display in a graph, you can display multiple lines and facilities on a single screen as a comparison screen. The user authority management allows you to manage the functions and authority for each user. The function of data output allows you to download various master tables and stored data in a CSV file.
1.1.3. Users on the COLMINA Platform

Three types of users use the COLMINA Platform, as shown below.

<table>
<thead>
<tr>
<th>No.</th>
<th>User Name</th>
<th>Use Environment</th>
<th>Issuing Time</th>
<th>Purpose of Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tenant operator</td>
<td>COLMINA Platform</td>
<td>When a COLMINA Platform contract is signed (Notification of service activation)* when applying, the service user is asked to specify an arbitrary user name.</td>
<td>COLMINA Platform administrator. The user is also an Intelligent Dashboard system administrator.</td>
</tr>
<tr>
<td>2</td>
<td>Tenant user</td>
<td>COLMINA Platform</td>
<td>The tenant operator registers this user after the service contract is signed.</td>
<td>COLMINA Platform user*.</td>
</tr>
<tr>
<td>3</td>
<td>Intelligent Dashboard user</td>
<td>Intelligent Dashboard</td>
<td>The tenant operator registers this user after the service contract is signed. Be sure to register the tenant user with the same ID before registering the Intelligent Dashboard user.</td>
<td>Intelligent Dashboard dedicated user*. * This name must be the same as the user name of a tenant user in No. 2.</td>
</tr>
</tbody>
</table>


1.2. Documents

The following table shows the arrangement of documents for this service.

<table>
<thead>
<tr>
<th>Manual Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUJITSU Cloud Service K5 COLMINA Platform Service Details Instruction Manual</td>
<td>Describes the service specifications of this service.</td>
</tr>
<tr>
<td>FUJITSU Cloud Service K5 COLMINA Platform User Guide</td>
<td>Operation manual describing procedures for using this service (This document).</td>
</tr>
<tr>
<td>FUJITSU Cloud Service K5 COLMINA Platform API Reference</td>
<td>Lists the APIs provided with this service.</td>
</tr>
</tbody>
</table>
Chapter 2       Flow from Start to End of Service Use

2.1. Service Use

This section describes procedures used on the COLMINA Platform. The contract-related procedures conclude a new contract, change a contract, and cancel a contract. The help desk application procedures set a password when one is forgotten and make requests such as to browse various information. There is also a procedure for browsing contract information.

2.1.1. Contract-Related Procedures

For a new contract, contract change, or contract cancellation on the COLMINA Platform, submit an application from K5 portal at following URL:
https://s-portal.cloud.global.fujitsu.com/

For details on how to use K5 portal, see the "K5 Portal User Guide" in FUJITSU Cloud Service K5 document

2.1.1.1. How to Make a New Application

To use the COLMINA Platform, the K5 service contract must be signed beforehand. Furthermore, after signing the K5 service contract, log in to the K5 portal service and register the information listed below.

For details on how to use the K5 portal, how to register a service with the K5 portal, and how to perform other tasks, see the K5 Portal User Guide.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Name</th>
<th>Purpose of Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Contract number</td>
<td>Required (input item) in the COLMINA Application when making a help desk application after using the service</td>
</tr>
</tbody>
</table>
| 2   | User name/Password   | Required for K5 portal login  
- Enables browsing of COLMINA Platform contract information on the K5 portal.  
- Cannot be used for the COLMINA Platform. |
| 3   | Service group        | Required (input item) in the Application                                       |
| 4   | Subservice group     | Required (input item) in the Application                                       |
After signing the K5 service contract, submit an application from K5 portal.

The flow for a new application is as follows.

1. Access “COLMINA Platform” submenu inside “Services” menu from K5 portal.

Figure 2.1.1.1. K5 Portal (New Application)
2. COLMINA Platform service menu will be displayed, select “COLMINA Platform” and click on “Apply for Service”.

Figure 2.1.1.2 K5 Portal Screen (New Application)
3. Enter required information displayed at service settings and application screen, then click on “Confirm Order” button.

![Service Settings and Application](image)

Figure 2.1.1.3. K5 Portal Screen (New Application)

4. Service user will receive the notification of service activation from help desk (After the application is done at K5 portal, notification of service activation will be sent in approximately 10 business days).

5. The temporary password for user name (Tenant operator) registered in application will be sent by help desk to the e-mail address inserted at “Information on destination (Tenant operator)”. Please note that temporary password sent by e-mail expires in 1 day.

Be careful, once the application is submitted it’s not possible to modify any detail of the application or cancel the application until the next day of “Pricing Plan Start Date”.

For information required in the application, see "Table 2.1.1.1.2. Service Settings and Application Screen Items" below.
### Table 2.1.1.1. 2

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Name</th>
<th>R: Required</th>
<th>Description</th>
<th>Supplementary Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Service group</td>
<td>R</td>
<td>Information for grouping and displaying the services used on the PaaS portal. Select a created service group and subservice group.</td>
<td>For details, see &quot;3.5.1. Managing Service Group Information&quot; in the K5 Portal User Guide.</td>
</tr>
<tr>
<td>2</td>
<td>Subservice group</td>
<td>R</td>
<td>Same as above.</td>
<td>Same as above.</td>
</tr>
<tr>
<td>4</td>
<td>Factory ID</td>
<td>R</td>
<td>The minimum required is 1 factory ID. Be sure to write the factory ID and a factory name at the same time.</td>
<td>You can enter a combination of the following character types in a factory ID: single-byte alphanumeric characters. An acceptable character length is 1 to 24 characters.</td>
</tr>
<tr>
<td>5</td>
<td>Factory name</td>
<td>R</td>
<td>The minimum required is 1 factory name. Be sure to write the factory name and a factory ID at the same time.</td>
<td>There is no restriction on the characters that can be entered for the factory name. An acceptable character length is 1 to 200 characters.</td>
</tr>
<tr>
<td>6</td>
<td>User name (Tenant operator)</td>
<td>R</td>
<td>Enter the desired user name (COLMINA Platform administrator).</td>
<td>You can enter a combination of the following character types in a user name: single-byte alphanumeric characters except a single-byte space, and the 4 symbols . @ - _. An acceptable character length is 4 to 30 characters. The name is not case-sensitive.</td>
</tr>
<tr>
<td>7</td>
<td>First and last name for user</td>
<td>R</td>
<td>Name for sending temporary password of the user name (Tenant operator).</td>
<td>There is no restriction on the characters that can be entered for the name. An acceptable character length is 1 to 128 characters.</td>
</tr>
</tbody>
</table>
The temporary password of the user (Tenant operator) is sent from the Help desk to this e-mail address. Please note that the reference URL to the temporary password to be sent has a validity period (1 day) set.

For information about the items reported in the Notification of Service Activation, see “Table 2.1.1.3. Notification of Service Activation Items” below.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Name</th>
<th>R: Reported</th>
<th>Description</th>
<th>Supplementary Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Service application number (service contract ID)</td>
<td>R</td>
<td>Reports a service application number for this service.</td>
<td>Required in the Change Application, Cancellation Application, and help desk inquiries.</td>
</tr>
<tr>
<td>2</td>
<td>Start-of-use date</td>
<td>R</td>
<td>Reports the start date for use of the service.</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>Tenant ID</td>
<td>R</td>
<td>Reports a tenant ID of this service.</td>
<td>Issued per contract for using this service.</td>
</tr>
<tr>
<td>4</td>
<td>User name (Tenant operator)</td>
<td>R</td>
<td>Reports a user name (Tenant operator).</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>Storage URL to send data.</td>
<td>R</td>
<td>Reports the storage URL for sending data when using this service.</td>
<td>For information about configuring the data sending program, see API Reference.</td>
</tr>
<tr>
<td>6</td>
<td>Password change URL</td>
<td>R</td>
<td>Reports the URL for changing a password.</td>
<td>You can change your temporary password to a regular password by accessing this URL.</td>
</tr>
<tr>
<td>7</td>
<td>Visualization service login URL</td>
<td>R</td>
<td>Reports the Intelligent Dashboard login URL.</td>
<td>You can display the Intelligent Dashboard login screen by accessing this URL. For details on how to log in, see Section 4.1.1.</td>
</tr>
<tr>
<td>8</td>
<td>COLMINA portal URL</td>
<td>R</td>
<td>Reports COLMINA portal’s login URL.</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>Factory ID</td>
<td>R</td>
<td>Reports all registered factories ID.</td>
<td>-</td>
</tr>
<tr>
<td>10</td>
<td>Factory name</td>
<td>R</td>
<td>Reports all registered factories names.</td>
<td>-</td>
</tr>
</tbody>
</table>
2.1.1.2. How to Make a Change Application
The following flow covers plan change application.

Figure 2.1.1.2.1. K5 Portal (Change Application)

2. A list of service groups will be displayed, click on the “>” symbol on the left side of the service group name you have selected on application.

Figure 2.1.1.2.2. K5 Portal (Change Application)
3. A list of subservice groups will be displayed, click on the subservice group you have selected on application.

Figure 2.1.1.2.3. K5 Portal (Change Application)

4. Services list will be displayed. Search for the service that match “Service Application No.” described in notification of service activation and check the service’s “Select” input.

Figure 2.1.1.2.4. K5 Portal (Change Application)
5. A confirmation dialog will be displayed. Read the message and then click the “Close” button.

6. Select the desired plan from “Change Pricing Plan” input, then click on “Change Pricing Plan” button.
7. A confirmation dialog will be displayed, click on “OK” button to submit the change application.

![Figure 2.1.1.2.7. K5 Portal (Change Application)](image)

8. If you selected a plan with increased number of factories, also send a change application by e-mail describing the new factories information to the help desk following the instructions on “2.1.2.4. How to Make a Change Application (Adding or Deleting a Number of Factories)”. Please note that after the change application is submitted, it’s not allowed to do another change or cancel the service until the “Pricing Plan Start Date”.

![Figure 2.1.1.2.8 K5 Portal (Change Application)](image)
When changing to a plan with increased disk capacity, the service will be temporary suspended for disk expansion work. Help desk will inform you of the suspension period of the service by e-mail. The service outage period is about 2 business days. It varies depending on data capacity. It is necessary to stop data transmission during service outage period.

For information about the required input items in the Change Application, see the list in "Table 2.1.1.2.1. Change Application Screen Items" below.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Name</th>
<th>R: Required</th>
<th>O: Optional</th>
<th>Description</th>
<th>Supplementary Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Change Pricing Plan</td>
<td>R</td>
<td></td>
<td>Select the desired new plan.</td>
<td>Change to a plan that decreases the number of factories, users or disk capacity are not allowed. Change allowed: Plan01 to Plan02. Change not allowed: Plan02 to Plan01.</td>
</tr>
</tbody>
</table>

2.1.1.3. How to Make a Cancellation Application

The cancellation application flow is as follows.


![Figure 2.1.1.3.1. K5 Portal (Cancellation Application)](image-url)
2. A list of service groups will be displayed, click on the “>” symbol on the left side of the service group name you have selected on application.

![Figure 2.1.1.3.2. K5 Portal (Cancellation Application)](image)

A list of subservice groups will be displayed, click on the subservice group you have selected on application.

![Figure 2.1.1.3.3. K5 Portal (Cancellation Application)](image)
3. Services list will be displayed. Search for the service that match “Service Application No.” described in notification of service activation and check the service’s “Select” input.

![Figure 2.1.1.3.4. K5 Portal (Cancellation Application)](image-url)
4. A confirmation dialog will be displayed. Read the message and then click the “Close” button.

![Image](image1.png)

Figure 2.1.1.3.5. K5 Portal (Cancellation Application)

5. Click on “Stop Service Usage”.

![Image](image2.png)

Figure 2.1.1.3.6. K5 Portal (Cancellation Application)
6. A confirmation dialog will be displayed, click on “OK” button to submit the cancellation application.

![Figure 2.1.1.3.7. K5 Portal (Cancellation Application)](image)

7. Processing completion dialog is displayed, click on “OK” button to submit the cancellation application.

![Figure 2.1.1.3.8. K5 Portal (Cancellation Application)](image)

Please note that the cancellation application can’t be undone once submitted.
This service is cancelled at monthly basis, full monthly charge will occur on the month of cancellation. Charges are not made on a per diem basis. “Service Stop Date” can be checked at services list. Please note that this service cannot be used after the “Service Stop Date”.

Figure 2.1.1.3.9. K5 Portal (Cancellation Application)
2.1.2. **Help Desk Application Procedures**

The following table lists various applications. Tenant operators send these applications to the help desk by e-mail. Processing will complete roughly three business days after the application. The help desk will reply by e-mail with the results.

<table>
<thead>
<tr>
<th>No.</th>
<th>Application Name</th>
<th>Application Type</th>
<th>Application Outline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tenant operator's password initialization</td>
<td>Change application</td>
<td>This change application requests password initialization for a tenant operator who forgot the password.</td>
</tr>
<tr>
<td>2</td>
<td>Batch aggregation start interval</td>
<td>Change application</td>
<td>This change application requests a change to the batch aggregation start interval used with Intelligent Dashboard.</td>
</tr>
<tr>
<td>3</td>
<td>Data retention period</td>
<td>Change application</td>
<td>This change application requests a change to the retention period of various data retained on the COLMINA Platform.</td>
</tr>
<tr>
<td>4</td>
<td>Factory quantity addition/deletion</td>
<td>Change application</td>
<td>This change application adds or deletes factories to be visualized for use with Intelligent Dashboard. The minimum number of factories is 1</td>
</tr>
<tr>
<td>5</td>
<td>Miscellaneous information inquiry application</td>
<td>Information inquiry application</td>
<td>You can inquire about the following information used on the COLMINA Platform: 1) List of factories used with Intelligent Dashboard 2) Default locale</td>
</tr>
</tbody>
</table>

2.1.2.1. **Change Application for Initializing a tenant operator's password**

For details on how to apply for password initialization, see the following table.

<table>
<thead>
<tr>
<th>E-Mail Subject</th>
<th>E-Mail Body</th>
<th>Note</th>
</tr>
</thead>
</table>
| COLMINA change application (password initialization) | Enter the following 3 items:  
(1) K5 contract number  
(2) Service application number  
(3) Tenant operator user name | (1) Enter the K5 contract number issued through the K5 portal.  
(2) Enter the service application number reported in the notification of service activation.  
(3) Enter the user name of the password to be initialized. *The reply from the help desk contains a temporary password. Be sure to change it to a regular password.  
Entry example)  
(1) K5 contract number: XXXXXXXX  
(2) Service application number: 0000001  
(3) Target user name: XXXX01 |
2.1.2.2. Change Application for the Batch Aggregation Start Interval
For details on how to make an application on the batch aggregation start interval, see the following table.

<table>
<thead>
<tr>
<th>E-Mail Subject</th>
<th>E-Mail Body</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLMINA change application (batch aggregation start</td>
<td>Enter the following 3 items:</td>
<td>(1) Enter the K5 contract number issued through the K5 portal.</td>
</tr>
<tr>
<td>interval)</td>
<td>(1) K5 contract number</td>
<td>(2) Enter the service application number reported in the notification of service activation.</td>
</tr>
<tr>
<td></td>
<td>(2) Service application number</td>
<td>(3) Specify a value within a range of 1 to 60 minutes or 1 to 24 hours.</td>
</tr>
<tr>
<td></td>
<td>(3) Batch aggregation start interval</td>
<td>* The recommended value is 5 minutes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Entry example)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) K5 contract number: XXXXXXXX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Service application number: 0000001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3) Batch aggregation start interval: 10 minutes</td>
</tr>
</tbody>
</table>

2.1.2.3. Change Application for the Data Retention Period
"Table 2.1.2.3.1. Target Data Retention Periods" lists the recommended maximum values for 200 GB of disk space. If you want to retain data exceeding any of these recommended maximum values, consider disk expansion. For the change procedure for disk expansion, see Section 2.1.1.2.

<table>
<thead>
<tr>
<th>No.</th>
<th>Data Subject to Data Retention Period</th>
<th>Retention Period (Default Value (Recommended Maximum Value) for 200 GB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sequential performance data</td>
<td>60 days</td>
</tr>
<tr>
<td>2</td>
<td>Performance data by minute</td>
<td>60 days</td>
</tr>
<tr>
<td>3</td>
<td>Performance data by hour</td>
<td>365 days</td>
</tr>
<tr>
<td>4</td>
<td>Performance data by shift</td>
<td>365 days</td>
</tr>
<tr>
<td>5</td>
<td>Performance data by day</td>
<td>365 days</td>
</tr>
<tr>
<td>6</td>
<td>Performance data by week</td>
<td>60 months</td>
</tr>
<tr>
<td>7</td>
<td>Performance data by month</td>
<td>60 months</td>
</tr>
<tr>
<td>8</td>
<td>Performance data by fiscal year</td>
<td>10 years</td>
</tr>
<tr>
<td>9</td>
<td>Access log</td>
<td>365 days</td>
</tr>
<tr>
<td>10</td>
<td>Batch log</td>
<td>365 days</td>
</tr>
</tbody>
</table>

For details on how to make an application for the data retention period, see the following table. In the e-mail body, the (1) K5 contract number, (2) Service application number, and (3) data subject and data retention period after the change.
Table 2.1.2.3.2. Application Contents for the Data Retention Period

<table>
<thead>
<tr>
<th>E-Mail Subject</th>
<th>E-Mail Body</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLMINA change application (data retention period)</td>
<td>Write the following 3 items:</td>
<td>(1) Enter the K5 contract number issued through the K5 portal.</td>
</tr>
<tr>
<td></td>
<td>(1) K5 contract number</td>
<td>(2) Service application number.</td>
</tr>
<tr>
<td></td>
<td>(2) Service application number</td>
<td>(3) Enter as many data subjects and data retention periods as needed. For the recommended values, see the Table 2.1.2.3.1. Target Data Retention Periods.</td>
</tr>
<tr>
<td></td>
<td>(3) Data retention period</td>
<td>* Only write data retention period that you want to change from the list below.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sequential performance data: Specify the period within a range of 1 to 60 days.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by minute: Specify the period within a range of 1 to 60 days.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by hour: Specify the period within a range of 1 to 365 days.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by shift: Specify the period within a range of 1 to 365 days.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by day: Specify the period within a range of 1 to 365 days.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by week: Specify the period within a range of 1 to 60 months.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by month: Specify the period within a range of 1 to 60 months.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by fiscal year: Specify the period within a range of 1 to 10 years.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>access log: Specify the period within a range of 1 to 365 days.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>batch log: Specify the period within a range of 1 to 365 days.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Entry example)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) K5 contract number: XXXXXXXX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Service application number: 0000001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3) Data retention period:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sequential performance data: 40 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>performance data by minute: 30 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>access log: 250 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>batch log: 365 days</td>
</tr>
</tbody>
</table>
2.1.2.4. How to Make a Change Application (Adding or Deleting a Number of Factories)
For details on how to make an application to add or delete a number of factories, see the following table. Send applications with different e-mail subjects by separate e-mails. Also, make sure to add or delete a factory within the signed plan's number of factories.

Table 2.1.2.4. Application Contents for Adding or Deleting a Factory

<table>
<thead>
<tr>
<th>E-Mail Subject</th>
<th>E-Mail Body</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLMINA change application (add number of factories)</td>
<td>Write the following 4 items:</td>
<td>(1) Enter the K5 contract number issued through the K5 portal.</td>
</tr>
<tr>
<td></td>
<td>(1) K5 contract number</td>
<td>(2) Enter the number reported in the notification of service activation.</td>
</tr>
<tr>
<td></td>
<td>(2) Service application number</td>
<td>(3) Enter the number of factories to add.</td>
</tr>
<tr>
<td></td>
<td>(3) Number of factories to add at this time</td>
<td>(4) Enter as many factory IDs and Names as the number of added factories. For the recommended factory ID values, see Table 2.1.1.1.2.</td>
</tr>
<tr>
<td></td>
<td>(4) Factory ID / Factory name to add</td>
<td>Charges are determined by the number of factories. Factory names are counted to get the number of factories.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Entry example)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) K5 contract number: XYYYYYXX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Service application number: 00000001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3) Number of factories to add: 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(4) Factory to add: CXXYYZ02 / Augsburg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Factory to add: CXXYYZ03 / Garching bei München</td>
</tr>
<tr>
<td>COLMINA change application (delete number of factories)</td>
<td>Write the following 4 items:</td>
<td>(1) Enter the K5 contract number issued through the K5 portal.</td>
</tr>
<tr>
<td></td>
<td>(1) K5 contract number</td>
<td>(2) Enter the number reported in the notification of service activation.</td>
</tr>
<tr>
<td></td>
<td>(2) Service application number</td>
<td>(3) Enter the number of the factories to delete.</td>
</tr>
<tr>
<td></td>
<td>(3) Number of factories to delete at this time</td>
<td>(4) Enter as many factory IDs and Names as the number of factories to delete.</td>
</tr>
<tr>
<td></td>
<td>(4) Factory ID / Factory name to delete</td>
<td>Entry example)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) K5 contract number: XYYYYYXX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Service application number: 00000001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3) Number of factories to delete: 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(4) Factory to delete: CXXYYZ01 / Garching bei München</td>
</tr>
</tbody>
</table>
2.1.2.5. How to Make a Miscellaneous Information Inquiry and Change Application
For details on how to apply for miscellaneous information inquiries and Changes, see the following table.

Table 2.1.2.5. Application Contents for Miscellaneous Information Inquiries and Changes

<table>
<thead>
<tr>
<th>E-Mail Subject</th>
<th>E-Mail Body</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLMINA miscellaneous information inquiry and change</td>
<td>(1) K5 contract number</td>
<td>(1) Enter the K5 contract number issued through the K5 portal.</td>
</tr>
<tr>
<td></td>
<td>(2) Service application number</td>
<td>(2) Enter the number reported in the notification of service activation.</td>
</tr>
<tr>
<td></td>
<td>(3) Information inquiry and change</td>
<td>(3) Select the target for an information inquiry by checking its check box, which then changes from [ ] to [X]. (You can select more than one.)</td>
</tr>
<tr>
<td></td>
<td>targets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Factory information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Default locale information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(2) Service application number</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3) Information inquiry and change</td>
<td></td>
</tr>
<tr>
<td></td>
<td>targets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Factory information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Default locale information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(example en_US, de_DE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1) K5 contract number</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(2) Service application number</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3) Information inquiry and change</td>
<td></td>
</tr>
<tr>
<td></td>
<td>targets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Factory information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Default locale information</td>
<td></td>
</tr>
</tbody>
</table>

Entry example)
(1) K5 contract number: XXXXXXXX
(2) Service application number: 0000001
(3) Information inquiry and change targets
[X] Factory information
[X] Default locale information
(example en_US, de_DE)

2.1.3. Contract Information Browsing Procedure
Using the K5 portal, you can browse your COLMINA Platform contract information.

2.1.3.1. How to Use the K5 Portal
For the usage procedure and details on checking COLMINA Platform contract information on the K5 portal, see the following document on the K5 portal.
Chapter 3  How to Use the COLMINA Platform

3.1  Introduction

3.1.1  Users on the COLMINA Platform
For detailed description of the COLMINA Platform’s user scheme, refer to "1.1.3. Users on the COLMINA Platform".

3.2  How to Use the COLMINA Platform
After you submit an application from K5 portal, you will receive the notification of service activation by e-mail to start using the service. Before logging to COLMINA portal, change the temporary password written in the notification of service activation to a regular password.

3.2.1  Changing a Temporary Password
First, you need to change the temporary password in order to use the service.

3.2.1.1  Changing the Temporary Password
Access the password change URL described in notification of service activation.

The following screen appears when you access the URL.

![COLMINA Secure Authentication Screen to Change Tenant Operator’s Password (Displayed in a Browser)](image)

Figure 3.2.1.1.1. COLMINA Secure Authentication Screen to Change Tenant Operator’s Password (Displayed in a Browser)

The screenshots below show the content display area of the browser.
Do not use functions like the [Back], [Forward] or [Refresh] (F5 key) in Internet Explorer. (They may cause malfunction, in which case operation cannot be guaranteed)
Enter the user name (Tenant operator) from the notification of service activation into the user name field and the temporary password for the user name (Tenant operator) (called "temporary password" below) into the password field. Then, click the [Login] button.

![COLMINA Secure Authentication Screen](image)

Figure 3.2.1.1.2. COLMINA Secure Authentication Screen to Change the Tenant Operator’s Password

The personal settings screen appears.

From the field for the temporary password for a user name (Tenant operator) in the notification of service activation, enter the written contents of the field into the current password field. Enter a new password of 8 to 32 letters in alphanumeric characters into the new password field. Do not forget the new password, and be sure to manage it such that others do not use it. Enter the new password again into the new password (confirmation) field. Click the [Modify] button right below these fields (in the Basic information box).

![COLMINA Platform Personal Settings Screen](image)

Figure 3.2.1.1.3. COLMINA Platform Personal Settings Screen
The following screen appears when the password change is done.

Figure 3.2.1.1.4. COLMINA Platform Personal Settings Screen (After a Password Change)
Click the [Logout] button to log out.

Figure 3.2.1.1.5. COLMINA Platform Personal Settings Screen (Logout)

Figure 3.2.1.1.6. COLMINA Secure Authentication Logout Screen
Click the [X] icon at the top right of the browser to exit the browser. If other instances of the browser are still open, close all the browser instances.

Figure 3.2.1.7. COLMINA Secure Authentication Logout Screen (Displayed in a Browser)
3.2.1.2. **Cautions after Temporary Password is Changed**
Do not perform any operations in the screen accessed from "Password change URL" besides changing the password. This screen does not expects operations other than password change from this service, any other operation may cause unexpected results.
After changing the temporary password, please do not access the "Password change URL" anymore.

3.2.2. **Logging into COLMINA Platform**
Enter the user name (Tenant operator) described at notification of service activation into the user name field and the newly set password into the password field. Then, click the [Log in] button.

![COLMINA Secure Authentication Screen](image)

Figure 3.2.2. COLMINA Secure Authentication Screen
3.3. How to use COLMINA Portal
Following operations are available at COLMINA Portal:
- Usage Statistics
- User Setting (Add, edit or remove users)
- Data Reception Status Confirm
- Access to Intelligent Dashboard

3.3.1. COLMINA Portal Top Screen
After logging into COLMINA portal, following COLMINA portal top screen (abbreviated as “top screen” below) is displayed. In the top screen, besides checking usage statistics, it’s possible to change password, time zone setting or displayed language.

![COLMINA Portal Top Screen]

Figure 3.3.1. COLMINA Portal Top Screen
3.3.1.1. Usage Statistics
In the lower area of the top screen is shown the current number of registered users, data storage area’s (structured) disk usage and remaining space. Also, usage statistics period such as year and month can be selected. Data storage area’s (unstructured) disk usage and remaining space, number of data lake API (RDB/NoSQL) calls are displayed but currently not covered by this service. Moreover, number of registered users are only displayed for tenant operators.

![Figure 3.3.1.1. COLMINA Portal Top Screen](image)

3.3.1.2. Change Password
To change password, click on the user name displayed at upper right of the top screen, and select “Change password” from the pulldown list.

![Figure 3.3.1.2.1. COLMINA portal Top Screen](image)
Following password change screen will be displayed. Insert current password into “Old Password” field, and new password into “New Password” field. Please take care of the new password to not forget it, nor let another person use it. Insert the new password again into “New Password (Confirm)”, then click on “Update” button. This service saves the last 3 passwords, and won’t let you use the same old password from the last 3 times.

![COLMINA Portal Password Change Screen](image)

Figure 3.3.1.2.2. COLMINA Portal Password Change Screen

3.3.1.3. Time zone Setting
To change the time zone setting, click on the time zone displayed at upper right of the top screen, and select the desired time zone from the list. Note that the time zone information set here is carried over at the next login time. If browsing history (website data) is set to be deleted when closing the browser, it will not be carried over.

![COLMINA Portal Top Screen](image)

Figure 3.3.1.3. COLMINA Portal Top Screen
3.3.1.4. Language Setting
To change the language setting, click on the current language displayed at upper right of the top screen, then select the desired language from the list. Note that the time zone information set here is carried over at the next login time. If browsing history (website data) is set to be deleted when closing the browser, it will not be carried over.

![Figure 3.3.1.4. COLMINA Portal Language Setting Screen](image)

3.3.1.5. Logout
To logout, click on the user name displayed at upper right of the top screen, then select “Logout”.

![Figure 3.3.1.5. COLMINA Portal Logout Screen](image)
3.3.2. **User Setting**

By clicking on “User Setting” from top screen, it’s possible to perform operations upon users’ information (Register, edit, remove, view or unlock).

![User Setting](image1)

**Figure 3.3.2. COLMINA Portal User Setting Screen**

3.3.2.1. **User Setting (List users)**

Enter the username in the “User ID” field and click on “Search” button to search for users that partially match the condition.

Search result will be displayed as a list at the bottom of the screen in the area called “Search Result”, you can also perform operations on each user such as view detailed information, edit or remove.

![User Setting (List users)](image2)

**Figure 3.3.2.1. COLMINA Portal User Setting (List users) Screen**
3.3.2.2. User Setting (Registration)
To register a new user, click on “Create” button at upper right of the “Search Result” area.

Figure 3.3.2.2.1. COLMINA Portal User Setting Screen

Following screen will be displayed.
Fill the form using the “Table 3.3.2.2.1. User Setting (Registration) Input Fields” as a reference, then click on “Create” button.

Figure 3.3.2.2.2. COLMINA Portal User Setting (Registration) Screen
Table 3.3.2.2.1. User Setting (Registration) Input Fields

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
<th>R: Required</th>
<th>Limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td>User ID</td>
<td>Insert the user ID of the new user.</td>
<td>R</td>
<td>User ID length must be between 4 and 230 characters. Following characters can be used:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Single-byte alphanumeric (a-z, A-Z, 0-9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Dollar sign ($)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Single quote ('')</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Hyphen (-)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Tilde (~)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* At sign (@)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Period (.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Underline (_)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Attention *</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* User ID must be unique inside its tenant.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* It’s case-insensitive.</td>
</tr>
<tr>
<td>Password</td>
<td>Insert the password of the new user.</td>
<td>R</td>
<td>Insert a single-byte alphanumeric characters string with length between 8 and 32 characters. The password is case-sensitive.</td>
</tr>
<tr>
<td>Password (Confirm)</td>
<td>Insert the password of the new user for confirmation.</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Usage Start on</td>
<td>Insert the activation date of the new user.</td>
<td>O</td>
<td>Insert the date field in “yyyy/mm/dd” format and for the time field select hour and minute from the list.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* If date field is empty, then hour and minute field will be ignored without errors even if it’s selected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* If date is inserted but hour field is empty, it will be a valid input and time will be considered as “00:00”, even if minute field has been selected with another value.</td>
</tr>
<tr>
<td>Usage End on</td>
<td>Insert the expiration date of the new user.</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Role</td>
<td>Select the role of the new user.</td>
<td>R</td>
<td>Select “Tenant operator”or “Tenant user” from the list. Displayed menu will be based on user’s role. For detail, see “1.1.3. User scheme”.</td>
</tr>
</tbody>
</table>
3.3.2.3. User Setting (Edit)
To edit user information, search for the user and click on the user’s “Update” button from the “Search Result”.

![Figure 3.3.2.3.1. COLMINA Portal User Setting (List users) Screen](image1)

Following screen will be displayed.
Fill the form using the “Table 3.3.2.3.1. User Setting (Edit) Input Fields” as a reference, then click on “Update” button.

![Figure 3.3.2.3.2. COLMINA Portal User Setting (Edit) Screen](image2)
<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
<th>R: Required O: Optional</th>
<th>Limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password</td>
<td>Insert the new password.</td>
<td>O</td>
<td>Insert a single-byte alphanumeric characters string with length between 8 and 32 characters. The password is case-sensitive.</td>
</tr>
<tr>
<td>Password (Confirm)</td>
<td>Insert the new password again for confirmation.</td>
<td>O</td>
<td>–</td>
</tr>
<tr>
<td>Usage Start on</td>
<td>Insert the activation date.</td>
<td>O</td>
<td>Insert the date field in “yyyy/mm/dd” format and for the time field select hour and minute from the list.</td>
</tr>
<tr>
<td>Usage End on</td>
<td>Insert the expiration date.</td>
<td>O</td>
<td>* If date field is empty, then hour and minute field will be ignored without errors even if it’s selected.</td>
</tr>
<tr>
<td>Role</td>
<td>Select the new role.</td>
<td>O</td>
<td>* If date is inserted but hour field is empty, it will be a valid input and time will be considered as “00:00”, even if minute field has been selected with another value.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* If date and hour field is inserted but minute field is empty, it will be a valid input and minute will be considered as “00”.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* User cannot change own role.</td>
</tr>
</tbody>
</table>
3.3.2.4. User Setting (Remove)

To remove a user, search for the user and click on the user’s “Delete” button from the “Search Result”. Furthermore, the logged user can’t delete itself.

Click on “Delete” button to confirm.

Figure 3.3.2.4.1. COLMINA Portal User Setting (Remove) Screen

Figure 3.3.2.4.2. COLMINA Portal Removal Confirmation Screen
3.3.2.5. User Setting (View)

To view detailed information of the user, search for the user and click on the user’s “Detail” button from the “Search Result”.

![Figure 3.3.2.5.1. COLMINA Portal User Setting (List) Screen]

Following screen will be displayed, so you can check current user information.

![Figure 3.3.2.5.2. COLMINA Portal User Setting (View) Screen]
3.3.2.6. Unlock
User account will be locked and unable to login when 10 consecutive login attempts with wrong password are made. To unlock the user, the tenant operator must follow the procedure below.
From the top screen, access the “User Setting” function and search for the locked user. The search result will be displayed, ensure that user’s “Lock Status” is set to “Locked”.

![Figure 3.3.2.6.1. COLMINA Portal User Setting (Unlock) Screen](image1)

Select the user’s checkbox you want to unlock, then click on “Unlock User” button.

![Figure 3.3.2.6.2. COLMINA Portal User Setting (Unlock) Screen](image2)
A confirmation dialog will be displayed, click on “Unlock” button.

Confirm that user’s “Lock Status” changes to “Unlocked”.

Figure 3.3.2.6.3. COLMINA Portal User Setting (Unlock) Screen

Figure 3.3.2.6.4. COLMINA Portal User Setting (Unlock) Screen
3.3.3. **Data Reception Confirm**

You can search for CSV data sent by the sending program to check its reception status, using reception number, reception status, reception result, sent period as search conditions.

To check for the reception status, insert the reception number in the “Reception No.” field and click on the “Search” button. In case you don’t know the reception number, insert the reception status, reception result, sent period and click on the “Search” button. If “Reception No.” and other search conditions are set at same time, the search will be executed only with reception number, ignoring other conditions. Also, if multiple search condition from reception status, reception result and sent period are set, search result must match all conditions.

Up to 50,000 records from search result will be displayed. If the result has more than 50,000 records, adjust the search conditions to not match more than 50,000 records.

![Figure 3.3.3. COLMINA Portal Data Reception Confirm Screen](image-url)
3.3.4. **Access to Intelligent Dashboard**
To access Intelligent Dashboard, click on the “Intelligent Dashboard” menu from top screen.

![Figure 3.3.4. COLMINA Portal Top Screen](image)

Figure 3.3.4. COLMINA Portal Top Screen
3.4. Preparation to Use Intelligent Dashboard (Master maintenance)

To use Intelligent Dashboard, you first need to perform maintenance on master data. Perform maintenance on master data with the master maintenance function and the CSV edit tool running on a client. This section describes the procedures implemented for master maintenance.

3.4.1. Master Maintenance Procedures

In master maintenance, at first, maintain master data as follows. Download the current master data with the master maintenance function. Next, edit the downloaded data imported into the CSV edit tool. Then, upload the edit CSV file exported by the CSV edit tool on the master maintenance screen.

The following figure shows an outline diagram of this master data maintenance flow.

**Master Data Maintenance Flow**

![Master Data Maintenance Flow Diagram]

**Figure 3.4.1. Master Data Maintenance Flow**

3.4.1.1. Notes

Note the following matters on performing master maintenance.

- Only usernames registered in COLMINA portal’s user setting can registered and used as a user for the user master of master maintenance.
- At master maintenance, start maintenance work by downloading the latest master data from the master maintenance screen.
- To perform master maintenance, you need to already be registered as a user with administrator authority in the user master.
- Master maintenance is configured for each factory. The master data that is set by factory cannot be edited.
- The factory administrator is set for each factory. The factory administrator in each factory has master maintenance authority and can configure master maintenance.
- Only users with system administrator authority can set master maintenance to a higher level in the hierarchy than a factory, such as the world map screen.
- The use authority of Intelligent Dashboard is divided into general users, factory administrators, and system administrators. A general user cannot perform master maintenance. A factory administrator can be set for each factory to perform master maintenance for that factory. A system administrator can perform master maintenance at a higher level in the hierarchy than a factory, such as on information not belonging to a specific factory. Master maintenance for each factory can be performed by not only the administrator of the factory but also the system administrator.
- The functions of deleting and editing Place IDs, screen IDs, etc. are limited to the factories that set these definitions. That being said, other factories can reference these IDs. The same Place ID, screen ID, etc. cannot be
used and doubly registered between factories.

- UTF-8 is the character code for an uploaded or downloaded CSV file, and the linefeed code is CR + LF. If these CSV files are imported into Excel, incorrect values or garbled characters may result due to the automatic editing function of Excel. Be sure to use the CSV edit tool to edit and upload the files.

- If a CSV file is uploaded with an incorrect setting, or if an incorrect setting affects screen settings, intended screen will not be displayed. We recommend saving the CSV file or a backup file of the CSV edit tool separately in advance before editing the file.

3.4.1.2. Selecting the Master Maintenance Menu

After initial login, the following screen appears. This screen shows a world map, which is the standard set screen. Click the upside-down triangle below “Logout” and to the right of “Language English” to display the system menu.

![World Screen (Standard Set Screen)](image)

Click [Master maintenance] from the system menu to transition to the master maintenance screen.

![System Menu Screen](image)
3.4.1.3. Downloading the Master CSV File to Edit

The following figure shows the master maintenance screen.

![Master Maintenance Screen](image)

**Figure 3.4.1.3.1. Master Maintenance Screen**

From the [Select table name] list box under "Please select the table to download and the target period” in the CSV download procedure on the master maintenance screen, select the master table to be edited. Then, click the [Download] button.

The browser downloads a CSV file with the applicable master data.

![Master Maintenance Screen (CSV Download Procedure)](image)

**Figure 3.4.1.3.2. Master Maintenance Screen (CSV Download Procedure)**
The data in the following table is master maintenance data that can be edited.

<table>
<thead>
<tr>
<th>No.</th>
<th>Master Table Data Type</th>
<th>Main Target for Editing/Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alarm master</td>
<td>Alarm type</td>
</tr>
<tr>
<td>2</td>
<td>D3 graph master</td>
<td>Screen design settings</td>
</tr>
<tr>
<td>3</td>
<td>Locale master</td>
<td>Locale settings</td>
</tr>
<tr>
<td>4</td>
<td>Language master</td>
<td>Language settings</td>
</tr>
<tr>
<td>5</td>
<td>Object master</td>
<td>Screen design settings</td>
</tr>
<tr>
<td>6</td>
<td>Object style master</td>
<td>Screen design settings</td>
</tr>
<tr>
<td>7</td>
<td>Place master</td>
<td>Factory settings</td>
</tr>
<tr>
<td>8</td>
<td>Place date control master</td>
<td>Aggregation period of each place</td>
</tr>
<tr>
<td>9</td>
<td>Resource master</td>
<td>Resource settings</td>
</tr>
<tr>
<td>10</td>
<td>Role master</td>
<td>Factory and authority settings</td>
</tr>
<tr>
<td>11</td>
<td>Screen master</td>
<td>Authority, screen design, and factory settings</td>
</tr>
<tr>
<td>12</td>
<td>Screen data master</td>
<td>Screen design settings</td>
</tr>
<tr>
<td>13</td>
<td>Screen item master</td>
<td>Authority and screen design settings</td>
</tr>
<tr>
<td>14</td>
<td>Threshold master</td>
<td>Alarm judgment conditions</td>
</tr>
<tr>
<td>15</td>
<td>User master</td>
<td>User settings</td>
</tr>
<tr>
<td>16</td>
<td>User auth master</td>
<td>User and authority settings</td>
</tr>
<tr>
<td>17</td>
<td>Totaling master</td>
<td>Data aggregation settings</td>
</tr>
<tr>
<td>18</td>
<td>Globe master</td>
<td>Globe attribute settings</td>
</tr>
<tr>
<td>19</td>
<td>Screen item extension master</td>
<td>Setting attributes of circle and cylinder on the globe</td>
</tr>
</tbody>
</table>

The initially stored data is the standard master and sample data of this service.

3.4.1.4. Editing a CSV File

Use the CSV edit tool to edit a CSV file. The editing procedure is as follows.

1) Download the CSV edit tool.
   You can download the CSV edit tool from the COLMINA Platform portal site.
   Download the CSV edit tool from the portal site.
   Access the following URL for the download site: (in English)
   For a [Platform Service for Business Use] category, click [COLMINA Platform].
   A K5 authentication page will be shown after clicking on [CSV file edit tool], input your contract number, username and password to login. Then you must accept the Software License Agreement to download an Excel file named "CSV_edit_tool.xlsm". Use this file to edit a CSV file.

2) Start the CSV edit tool.
   The file name of the CSV edit tool downloaded from the portal site is "CSV_edit_tool.xlsm".
   Double-click this CSV edit tool file to start the tool.
3) Select the target master.  
Select and display the target master data sheet.

![Figure 3.4.1.4.1. CSV Edit Tool (Master Selecting Example)](image1)

4) Import master data.  
Click the [CSV Import] button, and select the CSV file with the applicable master data downloaded as described in "3.4.1.3 Downloading the Master CSV File to Edit." This imports the CSV data and displays the contents of the master data on the screen.  
The following figure shows the screen with an imported user master.

![Figure 3.4.1.4.2. CSV Edit Tool (Master Import Example)](image2)

5) Edit the master data.  
Use the CSV edit tool to edit the master data.  
- Lines under the one showing "Insert data" are treated as the data. Do not insert a blank line here.  
- The system sets prescribed values for the registering user ID, registration date and time, updating user ID, update date and time, and registered factory ID. For this reason, even if their values are registered, the edited values are not reflected here.  
- Each master data is managed based on key information.  
Since all data with the same key information is managed as the same data, uploading such data with the master maintenance function will overwrite the existing data. Data with different key information is treated as new data and registered as additional data.  
Note: Uploading of data exported by the CSV edit tool will cause existing data managed by the master maintenance function to be replaced based on key information. If there was line data deleted by the CSV edit tool, the existing data managed by the master maintenance function is deleted.  
The following table lists key information for each master table.

![Table 3.4.1.4. Master Table Key Information](image3)
<table>
<thead>
<tr>
<th></th>
<th>Master Type</th>
<th>Tenant ID and Place ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Place master</td>
<td>Tenant ID and Place ID</td>
</tr>
<tr>
<td>8</td>
<td>Place Date Control Master</td>
<td>Tenant ID and Place ID</td>
</tr>
<tr>
<td>9</td>
<td>Resource master</td>
<td>Tenant ID, Resource ID, and Language division</td>
</tr>
<tr>
<td>10</td>
<td>Role master</td>
<td>Tenant ID, and Role ID</td>
</tr>
<tr>
<td>11</td>
<td>Screen master</td>
<td>Tenant ID, and Screen ID</td>
</tr>
<tr>
<td>12</td>
<td>Screen data master</td>
<td>Tenant ID, Screen ID, Object Sequential Number</td>
</tr>
<tr>
<td>13</td>
<td>Screen item master</td>
<td>Tenant ID, Screen ID, Object Sequential Number</td>
</tr>
<tr>
<td>14</td>
<td>Threshold master</td>
<td>Tenant ID, Place ID, Alarm ID, Alarm Level, Time Type, and Time</td>
</tr>
<tr>
<td>15</td>
<td>User master</td>
<td>Tenant ID, and User ID</td>
</tr>
<tr>
<td>16</td>
<td>User auth master</td>
<td>Tenant ID, User ID, and Role ID</td>
</tr>
<tr>
<td>17</td>
<td>Totaling master</td>
<td>Tenant ID, and Order</td>
</tr>
</tbody>
</table>

6) Export a CSV file.

Click the [CSV Export] button. This exports a CSV file to a folder and opens the CSV file in an editor. The name of this folder is set in the CSV storage folder path field in the CSV/List sheet. This editor is set in the file opening command field in the CSV/List sheet. The CSV file name has been decided in each master, so a file created with another name cannot be imported correctly.
3.4.1.5. Uploading a CSV File
Use [...], the browse button, to select the CSV file to be uploaded, and then click the [Upload] button. This updates the master table determined by the CSV file name.

![Figure 3.4.1.5. Master Maintenance Screen (CSV Upload Procedure)](image)

If the master cannot be updated because a required item is not written or key items are duplicated in the CSV file, it’ll result in an error. Check the error details from the access log screen.

3.4.1.6. Uploading an Image
Use the following procedure to upload an image file at the respective level, such as world, Japan, factory, or line, in the hierarchy.

(1) Click the [Browse] button. From the file dialog box, select the image file to upload.
(2) After the selection, the image file field displays the path name of the file.
(3) Click the [Upload] button to upload the image file.

The maximum image file size is 100 MB per file. Note that the maximum size of an image that can be displayed on the dashboard screen is Full HD (1920 x 1080).

![Figure 3.4.1.6. Image Upload Screen](image)
3.4.2. **User Settings**

A tenant user registered at COLMINA portal’s user setting by tenant operator also need to be registered as Intelligent Dashboard user or administrator to use Intelligent Dashboard.

3.4.2.1. **Adding a User**

Add a user in order for the user to use Intelligent Dashboard. You need to register the following master data to add the user:

- User master
- User auth master

The procedures for these masters are shown below.

(1) User master

To register a user name, add a line with the user name to the user master.

*Procedure*

- Add a line describing information about the added user.
- The locale is a locale character string that is set in the locale master. Set the language display format, time zone, date and time, etc. for this user.
- The initial Screen ID is the Screen ID character string that is set in the screen master. This ID points to the first screen displayed after login by this user.
- The initial time type specifies the time type to be displayed initially if "100: According to the displaying time type“ is specified for the data type of displayed data.

*Note*

- If the same User ID is registered with another factory, a duplication error occurs.
- Even if a set value is not a set locale or initial Screen ID in the respective master, it does not cause an error at master registration. However, the screen after login by this user is not displayed correctly.
- Tenant user names are not case-insensitive, whereas Intelligent Dashboard user names are case-sensitive. In Intelligent Dashboard user registration, register the user name (case-sensitive) as registered in COLMINA portal’s user setting.

(2) User auth master

Add a line (for every added role line) about the user name to be registered, to the user auth master.

*Procedure*

- Add a line about the user name to be registered, to the user auth master.

*Supplementary information*

- The authority ID is the authority ID character string set in the role master. You can add as many roles as desired for one user. Write multiple lines combining one user and one role per line.
- The screens of this user will display a screen or screen item only if the set role for the screen or screen item is included within the multiple roles added for this user.
- Adding the administrator role to a user makes master maintenance available to the user.

*Note*

- If a combination of a user name and authority ID is the same as that registered with another factory, a duplication error occurs.

3.4.2.2. **Deleting a User**

The following procedure deletes a user who does not use Intelligent Dashboard. You need to configure the following master data to delete the user:

- User master

*Procedure*

- Delete a user name by deleting the line with the user name from the user master.

*Note*

- Deleting a user prevents the user from displaying the Intelligent Dashboard screen. This does not affect the
3.4.2.3. Moving a User's Factory
The following procedure moves a registered user of one factory to another factory. You need to configure the following master data in the procedure to move the user's factory:
- User master
- User auth master

<Procedure>
- Delete the line with the target user name from the user master of the factory where the user name is registered.
- Delete all the lines with the target user ID from the user auth master of the factory where the user ID is registered.
- Add a line with the target user name to the user master of the destination factory.
- Add a line (for every added role line) with the target user name to the user auth master of the destination factory.

3.4.2.4. Changing a User's Authority
The following procedure adds a new authority or deletes an authority for a registered user. You need to configure the following master data to change the user's authority:
- User auth master

<Procedure>
- To add a new authority, add a combination of a user name and the added authority to the user auth master.
- To delete an added authority, delete it from the user auth master.

3.4.3. Place and Factory
Set a place and factory on Intelligent Dashboard. Add the location and factory information reported in the notification of service activation. You need to register the following master data to add the place and factory:
- Place master
- Resource master
- Place date control master
- Role master

3.4.3.1. Adding a Factory
Use the following procedures to add a factory. The factory has to be added by a tenant operator user. A tenant user cannot add it. Use the following procedures to add the factory.

<Procedure>
(1) Making an application for a factory (addition)
(2) Configure the resource master
(3) Configure the place master
(4) Configure the place date control master
(5) Configure the role master
(6) Create a factory screen
(7) Edit higher-level screen

(1) Making an application for a factory (addition)
For details on how to apply, see "2.1.2.4. How to Make a Change Application (Adding or Deleting a Number of Factories)."

(2) Configure the resource master
Decide the following IDs, etc. for the added factory: place ID, resource ID for the factory name, and factory
management role ID.
A user with system administrator authority sets the IDs on a master maintenance screen at a higher level in the hierarchy than a factory, such as the world map screen. Set the following values in the resource master:
- Resource ID: Resource ID that was decided
- Language: Set value in the language master
- Message: Factory name

(3) Configure the place master
Add a line with a factory ID written in the notification of service activation.
Set the following values in the place master:
- Place ID: Factory ID that was decided
- Resource ID: Resource ID that was decided
- Locale: Set value in the locale master
- Parent place ID: Higher-level place ID in the hierarchy (if the hierarchy has a higher parent place)

(4) Configure the date place date control master
Add time information for the added factory. Set the following values in the place date control master:
- Place ID: Factory ID that was decided
- Business hours (start time): Start time of business hours (HH24MI format)
- Month (start time): Start time of business hours (DD format)
- Year (start time): Start time of business hours (MMDD format)
- First quarter (start month of the first half): Start month of the first quarter (MMDD format)
- Second quarter (start month): Start month of the second quarter (MMDD format)
- Third quarter (start month of the second half): Start month of the third quarter (MMDD format)
- Fourth quarter (start month): Start month of the fourth quarter (MMDD format)
- Comment: Common master item
- Shift 1 (start time): Start time of the first shift (HH24MI format)
- Shift 1 (end time): End time of the first shift (HH24MI format)
- Shift 2 (start time): Start time of the second shift (HH24MI format)
- Shift 2 (end time): End time of the second shift (HH24MI format)
- Shift 3 (start time): Start time of the third shift (HH24MI format)
- Shift 3 (end time): End time of the third shift (HH24MI format)
- Shift 4 (start time): Start time of the fourth shift (HH24MI format)
- Shift 4 (end time): End time of the fourth shift (HH24MI format)

(5) Configure the role master
To perform maintenance on the added factory, add the role of factory administrator to the user. Setting the following values in the role master:
- Role ID: ID assigned according to the authority of the user. Set an arbitrary character string.
- Factory ID: The Place ID set in "(3) Configure the place master."
- Resource ID: ID of a resource character string that becomes a screen name.
- Administrator category: Set '1' (to represent the factory administrator).
- Admin Flag: Set '1' (to represent the factory administrator).
The role you set here for the factory administrator user.

(6) Create a factory screen
Set the factory ID registered in step (5) above for the factory screen. For details, see "3.4.6 Screen Configuration."

(7) Edit a higher-level screen
Add a transition to the newly set factory screen. Edit settings on the higher-level screen of the added factory. For details, see "3.4.6 Screen Configuration."
You need to register the following master data to add a new screen:
- Screen master
- Screen item master
- Screen data master

1) Add a line about the new screen to the screen master.

   Screen ID: Arbitrary character string that is unique in the whole system.
   There is a screen for every factory, line, facility, etc.
   Create a screen for each display method to also, for example, switch the graph display method to by day/month/year from the menu on each screen.

   Resource ID: ID of a resource character string that becomes a screen name.
   The ID appears in, for example, the transition history at the top of the screen.

   System menu hide flag:
   Specify 1 to hide the system menu for master maintenance, etc. Regardless of this setting, the system menu is displayed for users who have system administrator authority.

   Role ID: Role ID required for displaying this screen.

   Register Factory ID: Factory ID targeted for master maintenance to be opened from this screen. Specify the standard 'W00' or the ID applied for as a factory.

2) Add lines for screen elements to the screen item master and the screen data master.
   For details, see chapter "3.4.7. Settings of Each Screen Element Type."

3.4. Authority Management

The two types of authority management on Intelligent Dashboard are:
- Display authority: Limits which users can display each screen or internal screen element.
- Administrator authority: Limits which users can execute the master maintenance function.

Whether or not the login user has the above authority is determined by the role added to the user. A user can have multiple roles when the user auth master is set to add the roles to the user. Added roles are set in the role master.

3.4.4.1. Display Authority

Set the role required for displaying a screen or screen element. A screen or screen element is displayed only when the login user has the appropriate role. You need to register the following master data to perform authority management:
- Role master
- Screen master
- Screen item master
- User auth master

(1) Role master
Set a role of authority. Authorities include system administrators, factory administrators and general users.

(2) Screen master
Set a role to permit display when you want to restrict display of individual screens.

(3) Screen item master
Set a role to permit display when you want to restrict display of individual screen elements.

(4) User auth master
Add a set role for users with display permission to the screen master and screen item master.
3.4.4.2. Administrator Authority

The types of authority have the following three roles depending on the administrator category.

<table>
<thead>
<tr>
<th>Authority Flag</th>
<th>Meaning of Flag</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Role of system administrator</td>
</tr>
<tr>
<td>1</td>
<td>Role of factory administrator of the factory specified by a factory ID in the role master</td>
</tr>
<tr>
<td>Blank</td>
<td>General user other than the above</td>
</tr>
</tbody>
</table>

The system administrator has the following privileges:
- Always displayed system menu (still displayed even when "no system menu" is set in the screen master)
- Can edit master data that manages data in a higher level than a factory in the hierarchy
- Even has authority as the factory administrator and can perform master maintenance on all registered factories

You need to configure the following master data to perform authority management:
- Role master
- User auth master

(1) Role master
Create a role and set the administrator level and managed factories of the role.

<Procedure>
Set the following:
- Role ID: Decide and write an ID assigned according to the authority of the user.
- Place/Factory ID: Set an ID to identify a factory.
- Resource ID: ID of a resource character string that becomes a role name.

(2) User auth master
Add a role for an authorized user.

<Procedure>
Set the following:
- User ID: Intelligent Dashboard user
- Role ID: Role ID set in (1).

3.4.5. Locale

You can set the standard display language and time zone in the locale master by setting a combination of these settings for each user. The locale value is the ID of the combination. Set it in the user master.

You can set the following items in the locale master.

(1) Standard display language
Define a combination of a locale category and a language category. All text displayed on the screen uses the resources of the language category associated with the locale category value that is set in the user master of the login user. However, the display language right after login depends on this value.

(2) Time zone
- Specify the time difference from UTC (Coordinated Universal Time) together with a symbol (+/-).
  Example: For Japan, it is +9:00.
  For the Eastern United States, it is -4:00.
- Data time such as a graph displayed on the screen is in local time at the data place, and the displayed data is from any time up to the current time.
  This current time is the time in the time zone that is set as a locale for the user.
(3) Date format

- Specify the date display format by using the following letters:
  - YYYY: Four-digit year in the western calendar
  - MM: Zero-padded month from 01 to 12
  - DD: Zero-padded date from 01 to 31

The date displayed on the screen appears in the format specified here.

3.4.5.1. Adding or Deleting a Locale

To add a locale, use the CSV edit tool to add locale information to the locale master contents, and upload it with the master maintenance function.

3.4.5.2. Changing Locale Settings

To change locale information, use the CSV edit tool to change the locale master contents, and upload it with the master maintenance function.

3.4.6. Screen Configuration

Intelligent Dashboard can display and manipulate the set contents of the screen configuration. The following figure and table show the set contents of the screen configuration.

![Figure 3.4.6. Screen Configuration](image-url)
Table 3.4.6. Screen Configuration

<table>
<thead>
<tr>
<th>No.</th>
<th>Screen Element Type</th>
<th>Setting Description</th>
<th>Optional Setting Item</th>
<th>Maintenance Target Master Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Common logo</td>
<td>Uploading image file with file name &quot;logo.png&quot;</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(2)</td>
<td>Image</td>
<td>Location</td>
<td>Link destination</td>
<td>Screen item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Image file name</td>
<td>–</td>
<td>Object</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Size</td>
<td>Transparency, box style, and color</td>
<td>Object style</td>
</tr>
<tr>
<td>(3)</td>
<td>Graph</td>
<td>Location, redraw interval, and data place</td>
<td>–</td>
<td>Screen item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Graph area size and background color</td>
<td>–</td>
<td>Object style</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Graph type and various graph display settings</td>
<td>–</td>
<td>D3 graph</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Data type and time type</td>
<td>–</td>
<td>Screen data</td>
</tr>
<tr>
<td>(4)</td>
<td>Card</td>
<td>Location, redraw interval, and data place</td>
<td>–</td>
<td>Screen item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area size and character color</td>
<td>Background color, character size, and box style/color</td>
<td>Object style</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Data type and time type</td>
<td>Screen data</td>
<td></td>
</tr>
<tr>
<td>(5)</td>
<td>Label</td>
<td>Location and display text</td>
<td>Link destination</td>
<td>Screen item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area size and character color</td>
<td>Background color, font, character size, box style/color, and transparency</td>
<td>Object style</td>
</tr>
<tr>
<td>(6)</td>
<td>Logout menu</td>
<td>Not changeable *1</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(7)</td>
<td>Display language switching</td>
<td>Choices</td>
<td>–</td>
<td>Locale</td>
</tr>
<tr>
<td>(8)</td>
<td>System menu</td>
<td>Show/Hide *2</td>
<td>–</td>
<td>Screen</td>
</tr>
<tr>
<td>(9)</td>
<td>Menu</td>
<td>Location and display text</td>
<td>Link destination</td>
<td>Screen item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Size and background color</td>
<td>Background color, font, character size, box style/color, and transparency</td>
<td>Object style</td>
</tr>
<tr>
<td>(10)</td>
<td>Alarm</td>
<td>Location, redraw interval, and data place</td>
<td>–</td>
<td>Screen item</td>
</tr>
<tr>
<td>(11)</td>
<td>Alarm details</td>
<td>Location, redraw interval, and data place</td>
<td>–</td>
<td>Screen item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area size and character color</td>
<td>Background color, character size, and box style/color</td>
<td>Object style</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Target alarm</td>
<td>–</td>
<td>Screen data</td>
</tr>
<tr>
<td>(12)</td>
<td>List</td>
<td>Location</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area size and character color</td>
<td>Background color, character size, and box style/color</td>
<td>Object style</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Data type and time type</td>
<td>–</td>
<td>Screen data</td>
</tr>
</tbody>
</table>

*1 The expression "Logout" in the logout menu can be edited.
*2 The system menu can be set to show/hide according to the authority of the user. However, the system menu is always displayed for the system administrator.
3.4.7. **Settings of Each Screen Element Type**
This section describes the settings of each screen element type:

3.4.7.1. **Common Screen Elements**
(1) **Common logo**
This image is displayed at the top left corner of the screen. You can only change the image file. The display size is 60 x 200 pixels (horizontal x vertical), and there is no restriction on file format.

*Change procedure*
- Save arbitrary image data with the file name "logo.png".
- Upload the file by uploading the master maintenance image.
  * You can do so when performing master maintenance on any factory.

(2) **Display language switching**
You can change only the choices.
A list displays the locale names on all the lines of the locale master (does not depend on the settings by factory). Set a locale name in the resource ID string of the locale master.

3.4.7.2. **Elements in an Optional Screen**
(1) **Relationship of masters**
There are eight masters consisting of optional setting screens. They are linked in the following relationship.
(2) Object type

The following table shows object type values of the object master and how each is treated as a screen element.

Table 3.4.7.2.(2). Object type and screen element

<table>
<thead>
<tr>
<th>Object Type</th>
<th>Screen Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMG</td>
<td>Image</td>
</tr>
<tr>
<td>MNU</td>
<td>Menu</td>
</tr>
<tr>
<td>GRH</td>
<td>Graph</td>
</tr>
<tr>
<td>CRD</td>
<td>Card</td>
</tr>
<tr>
<td>LST</td>
<td>List</td>
</tr>
<tr>
<td>ALM</td>
<td>Alarm</td>
</tr>
<tr>
<td>ACD</td>
<td>Alarm details</td>
</tr>
<tr>
<td>GLB</td>
<td>Globe</td>
</tr>
<tr>
<td>CMP</td>
<td>Component</td>
</tr>
<tr>
<td>LBL</td>
<td>Label</td>
</tr>
</tbody>
</table>
(3) Color
Use an HTML color name or a hexadecimal color code to specify a character color or box color.
Express a hexadecimal color code by using a character string with "#" at the beginning of RGB color values joined in hexadecimal notation.

Example) HTML color name: "lightblue"
Hexadecimal color code: "#ADD8E6" * Both represent the same color.

(a) Image
An image is displayed at an arbitrary location on the screen.
You need to register the following master data to configure the display of an image:
- Screen item master
- Object master
- Object style master

Setting items
Location: When placing directly on the screen item master screen, specify a location with pixel values originating at the top left of the destination screen as XY coordinates.
   When placing inside a component, specify a location with pixel values originating at the top left of the destination component as XY coordinates.
Link destination: Specify a linking method and link URL in the screen item master. The screen transition method varies depending on the following linking method values:
   0: Moves to the screen with the screen ID obtained from the link destination value.
   1: Displays, in another window (tab), the screen with the screen ID obtained from the link destination value.
   2: Displays, in another window (tab), the URL obtained from the link destination value.
   3: Transition with the specified time type to a screen with the screen ID specified as [screen ID, time type] in CSV format within the link URL.
Image file name: Specify the path name of an image file in the object master.
   The image file with the file name specified here is uploaded.
Size: Specify a size value in pixels for width and height in the object style master.
   The image in an image file is expanded or contracted to the size specified here. (The aspect ratio is not maintained.)
Transparency: Object style master. Specify a transparency rate value from 0 (completely transparent) to 100 (completely opaque).
Box style: Specify a box style with any of the following border-style property values of HTML style sheets in the object style master:
   None: No line
   Solid: Single line
   Double: Double line
   Groove: Three-dimensional line that appears carved into the surface
   Ridge: Three-dimensional line that appears raised from the surface
Specify a box style at the left, right, top, and bottom by specifying any of the above values delimited by a space. If only one value is specified, the style applies to the left, right, top, and bottom. If two are specified, the styles apply separately to the top-bottom and left-right in the order described. If four are specified, the styles are applied separately to the top, right, bottom, and left in the order described.
Example) Single line for all four sides: "solid"
   Single line for only the top and bottom: "solid none"
Box color: Specify a color name or a hexadecimal color code for a box color in the object style master. Similar to box style, you can specify respective box colors for the left, right, top, and bottom by specifying multiple values delimited by a space.
(b) Menu

The text label and menu are displayed at an arbitrary location on the screen.

You need to register the following master data to configure the display of a menu:
- Screen item
- Object master
- Object style master

Setting items

Location: When placing directly on the screen item master screen, specify a location with pixel values originating at the top left of the destination screen as XY coordinates. When placing inside a component, specify a location with pixel values originating at the top left of the destination component as XY coordinates.

Display text: Specify a resource ID in the screen item master by specifying a resource ID value in the resource master.

Link destination: Screen item master. Specify a linking method and link destination. The screen transition method varies depending on the following linking method values:
  0: Moves to the screen with the screen ID obtained from the link destination value.
  1: Displays, in another window (tab), the screen with the screen ID obtained from the link destination value.
  2: Displays, in another window (tab), the URL obtained from the link destination value.
  3: Transition with the specified time type to a screen with the screen ID specified as [screen ID, time type] in CSV format within the link URL.

Area size: Object style master. Specify a size value in pixels for width and height.
  If a background color is specified, the background is set to this size.
  If the area is not wide enough for a displayed character string, the string is folded and displayed protruding from the area.

Character color: Specify a color name or a hexadecimal color code for a character color in the object style master.
  With the link method set to "3" and the time type set for the link destination, if you want to change the object character color based on the selected time type, specify the unselected color and selected color separated by a comma. If no color is changed, set only 1 color.

Background color: Specify a color name or a hexadecimal color code for a background color in the object style master.
  When the link method set to "3" and the time type is set for the link destination, if you want to change the object background color based on the selected time type, specify the unselected color and selected color separated by a comma. If no color is changed, set only 1 color.

Font: Specify a font name or keyword (sans-serif, serif, cursive, fantasy, or monospace) for the name of a font in the object style master.

Character size: Specify a font size with a pixel value in the object style master.

Box style, box color, and transparency: Same as in "Image" above

The maximum number of characters: Object style master. Specify a number of characters to be displayed.

Validity division of new line: Object style master. Specify the display method if the maximum number of characters is reached.
  1: break line.

(c) Graph

A graph is displayed at an arbitrary location on the screen.

You need to register the following master data to configure the display of a graph:
- Screen item
- Object master
- Screen data master
Setting items
Location: Same as in "Image" above
Redraw interval: Specify a redraw interval value in milliseconds in the screen item master.
The graph display is updated at the time interval specified here.
Data place: Specify a place ID in the screen item master by using a set place ID value in the place master.
The performance data displayed in a graph is determined from place for displaying the data.
Graph area size: Specify a size value in pixels for width and height in the object style master.
Delimiter Format Flag: Specify a delimiter format flag in the object style master.
   With "Show" specified, the format for the thousands separator and decimal point is converted according to the locale category when displaying numerical values.
   1: Show
   Other: The thousands separator is not shown and the decimal point is a period.

When a numerical value is 12345.67.

<table>
<thead>
<tr>
<th>Locale Category</th>
<th>String after conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>en_US</td>
<td>12,345.67</td>
</tr>
<tr>
<td>fr_FR</td>
<td>12,345.67</td>
</tr>
<tr>
<td>de_DE</td>
<td>12,345.67</td>
</tr>
<tr>
<td>ja_JP</td>
<td>12,345.67</td>
</tr>
</tbody>
</table>

* Supported locales comply with ICU library version 57.1

Decimal Precision: Specify the minimum number of digits displayed after the decimal point of numeric values to be displayed within the range of 1 to 3 in decimal point precision in the object style master.
Background color: Same as in "Label and menu" above
Graph Type: Specify any of the following values for the graph type in the D3 graph master:

<table>
<thead>
<tr>
<th>Setting value</th>
<th>Type of displayed graph</th>
</tr>
</thead>
<tbody>
<tr>
<td>0030</td>
<td>Bar Graph (two)</td>
</tr>
<tr>
<td>0040</td>
<td>Line Graph (one) + Bar Graph (one)</td>
</tr>
<tr>
<td>0050</td>
<td>Stacked Bar Graph + Line Graph (one)</td>
</tr>
<tr>
<td>0060</td>
<td>Bar Graph (one) + Line Graph (two)</td>
</tr>
<tr>
<td>0070</td>
<td>Line Graph (one to ten)</td>
</tr>
<tr>
<td>0090</td>
<td>Doughnut Graph (Semi Circle)</td>
</tr>
<tr>
<td>0100</td>
<td>Gauge type Bar Graph</td>
</tr>
<tr>
<td>0110</td>
<td>Pie Graph</td>
</tr>
<tr>
<td>0120</td>
<td>Bar Graph (two) + Line Graph (two)</td>
</tr>
<tr>
<td>0130</td>
<td>Bar Graph (three)</td>
</tr>
<tr>
<td>0140</td>
<td>Stacked Graph</td>
</tr>
<tr>
<td>0150</td>
<td>Doughnut Graph</td>
</tr>
<tr>
<td>0160</td>
<td>Stacked Bar (one) + Line Graph (two)</td>
</tr>
</tbody>
</table>

Color of bars and lines: Specify a graph color with a color name or a hexadecimal color code in the D3 graph master.
To display multiple data items with multiple lines, etc. in a graph, specify all graph colors delimited by a comma.

Time type: Screen data master. Specify any of the following values for the time type. The graph data targeted for data collected for each time type is data of the time type specified here.

<table>
<thead>
<tr>
<th>Setting value</th>
<th>Type of displayed graph</th>
</tr>
</thead>
<tbody>
<tr>
<td>010</td>
<td>Realtime</td>
</tr>
<tr>
<td>020</td>
<td>Per minute</td>
</tr>
<tr>
<td>030</td>
<td>Hourly</td>
</tr>
</tbody>
</table>
040: Per Shift
050: Daily
060: Weekly
070: Monthly
080: Yearly
100: According to the displaying time type

Realtime scale type: Screen data master. Specify the following values in the sequential scale type:
0: Time/Calendar scale (Example: 1 hour of the current time)
1 or more: Past scale equal to the specified number multiplied by 1 minute
(Example: When the specified number is 20, the past 20 minutes.)

Per minute scale type: Screen data master. Specify the following values in the minute scale type:
0: Time/Calendar scale (Example: 1 hour of the current time)
1 or more: Past scale equal to the specified number multiplied by 1 minute
(Example: When the specified number is 20, the past 20 minutes.)

Hourly scale type: Screen data master. Specify the following values in the hourly scale type:
0: Time/Calendar scale (Example: 1 day of the current day)
1 or more: Past scale equal to the specified number multiplied by 1 hour (Example:
When the specified number is 20, the past 20 hours.)

Per Shift scale type: Screen data master. Specify the following values in the by-shift scale type:
1 or more: Past scale equal to the specified number multiplied by 1 hour (Example:
When the specified number is 20, the past 20 hours.)
* 0 cannot be specified.

Daily scale type: Screen data master. Specify the following values in the daily scale type:
0: Time/Calendar scale (Example: 1 month of the current month.)
1 or more: Past scale equal to the specified number multiplied by 1 day (Example:
When the specified number is 20, the past 20 days.)

Weekly scale type: Screen data master. Specify the following values in the weekly scale type:
1 or more: Past scale equal to the specified number multiplied by 7 days (Example:
When the specified number is 2, the past 14 days.)
* 0 cannot be specified.

Monthly scale type: Screen data master. Specify the following values in the monthly scale type:
0: Time/Calendar scale (Example: 1 year of the current year)
1 or more: Past scale equal to the specified number multiplied by 1 month
(Example: When the specified number is 6, the past 6 months.)

Yearly scale type: Screen data master. Specify the following values in the yearly scale type:
1 or more: Past scale equal to the specified number multiplied by 1 year (Example:
When the specified number is 3, the past 3 years.)
* 0 cannot be specified.

Table 3.4.7.2.(3). Relationship and explanation of setting item, setting destination master

<table>
<thead>
<tr>
<th>Setting Item</th>
<th>Setting Destination Master</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color of bars and lines</td>
<td>D3 graph master</td>
<td>Specify a graph color with a color name or Hexadecimal color code in the D3 graph master. To display multiple data items with multiple lines, etc. in a graph, specify all graph colors delimited by a comma.</td>
</tr>
<tr>
<td>Color indicating alert data</td>
<td>D3 graph master</td>
<td>Specify a graph color (alert) with a color name or a hexadecimal color code.</td>
</tr>
<tr>
<td>Doughnut graph and pie chart</td>
<td>Graph size</td>
<td>D3 graph master</td>
</tr>
<tr>
<td>Alert data graph size</td>
<td>D3 graph master</td>
<td>For the radius (inside and outside) (alert) of a circle, specify values in pixels for the inside and outside diameters, delimited by a comma. Only 1 value is used.</td>
</tr>
<tr>
<td>Doughnut graph, pie chart, and gauge graph</td>
<td>Size of displayed characters</td>
<td>D3 graph master</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>----------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Size of characters indicating alert data</td>
<td>D3 graph master</td>
<td>Specify a value in pixels for the character font (alert) inside a graph.</td>
</tr>
<tr>
<td>Color of displayed characters (values, units, and legend)</td>
<td>D3 graph master</td>
<td>Specify a character color inside a graph with a color name or a hexadecimal color code.</td>
</tr>
<tr>
<td>Color of characters indicating alert data (values, units, and legend)</td>
<td>D3 graph master</td>
<td>Specify a character color (alert) inside a graph with a color name or a hexadecimal color code.</td>
</tr>
<tr>
<td>Location of displayed characters</td>
<td>D3 graph master</td>
<td>For a location displaying characters inside a graph, specify values in pixels for the bottom left corner of a character, as coordinates originating at the center of a pie chart.</td>
</tr>
<tr>
<td>Location of characters indicating alert data</td>
<td>D3 graph master</td>
<td>For a location displaying characters inside a graph (alert), specify values in pixels for the bottom left corner of a character, as coordinates originating at the center of a pie chart.</td>
</tr>
<tr>
<td>Display unit</td>
<td>D3 graph master</td>
<td>Specify a character string showing the display unit inside a graph. Resources cannot be specified.</td>
</tr>
<tr>
<td>Bar graph</td>
<td>Width of bar</td>
<td>D3 graph master</td>
</tr>
<tr>
<td>Margin displaying multiple data items</td>
<td>D3 graph master</td>
<td>Specify a value in pixels for the margin of the bar interval.</td>
</tr>
<tr>
<td>Bar graph</td>
<td>Unit label character string</td>
<td>D3 graph master</td>
</tr>
<tr>
<td>Unit label location</td>
<td>D3 graph master</td>
<td>For the location displaying the X-axis unit label, specify values in pixels in x,y from the top left corner of the graph.</td>
</tr>
<tr>
<td>Interval of auxiliary scales</td>
<td>D3 graph master</td>
<td>For the interval of the X-axis scale, specify the number of auxiliary scale units displayed in the primary scale interval. 1 represents no auxiliary scales. A daily graph displays the day label for each day from 1 to 31.</td>
</tr>
<tr>
<td>Left vertical axis</td>
<td>Unit label character string</td>
<td>D3 graph master</td>
</tr>
<tr>
<td>Unit label location</td>
<td>D3 graph master</td>
<td>For the location displaying the left Y-axis unit label, specify values in pixels in x,y from the top left corner of the graph.</td>
</tr>
<tr>
<td>Maximum value</td>
<td>D3 graph master</td>
<td>Specify a numerical value for the maximum value of the left Y-axis. If none is specified, the maximum value in the data is displayed.</td>
</tr>
<tr>
<td>Minimum value</td>
<td>D3 graph master</td>
<td>Specify a numerical value for the minimum value of the left Y-axis. If none is specified, the minimum value in the data is displayed.</td>
</tr>
<tr>
<td>Number of scales</td>
<td>D3 graph master</td>
<td>Specify the number of scale units to display on the left Y-axis.</td>
</tr>
<tr>
<td>Type of 0 axis display</td>
<td>D3 graph master</td>
<td>Specify 1 or 0 for the 0 axis display category of the Y axis, where the 0 axis line is displayed when specifying 1.</td>
</tr>
<tr>
<td>Right vertical axis</td>
<td>Unit label character string</td>
<td>D3 graph master</td>
</tr>
<tr>
<td>Unit label location</td>
<td>D3 graph master</td>
<td>For the location displaying the right Y-axis unit label, specify values in pixels in x,y from the top left corner of the graph.</td>
</tr>
<tr>
<td>Maximum value</td>
<td>D3 graph master</td>
<td>Specify a numerical value for the maximum value of the right Y-axis. If none is specified, the maximum value in the data is displayed.</td>
</tr>
<tr>
<td>Minimum value</td>
<td>D3 graph master</td>
<td>Specify a numeric value in the minimum value on the right Y-axis. If none is specified, the minimum value in the data is displayed.</td>
</tr>
<tr>
<td>Number of scales</td>
<td>D3 graph master</td>
<td>Specify the number of scale units to display on the right Y-axis.</td>
</tr>
<tr>
<td>Graph area</td>
<td>Margin above graph axis</td>
<td>D3 graph master</td>
</tr>
</tbody>
</table>
Margin below graph axis  | D3 graph master  | Specify the margin below the axis in pixels. Specify the distance from the bottom of the graph area to the horizontal axis.
---|---|---
Margin to left of graph axis  | D3 graph master  | Specify the margin on the left side of the axis in pixels. Specify the distance from the left side of the graph area to the left horizontal axis.
---|---|---
Margin to right of graph axis  | D3 graph master  | Specify the margin on the right side of the axis in pixels. Specify the distance from the right side of the graph area to the right horizontal axis.
---|---|---
Line Graph Dot Display  | D3 graph master  | Specify whether or not dots are displayed in a line graph. Specify for multiple lines with values separated by commas. "1" specifies the display of dots.
---|---|---
Threshold Type  | D3 graph master  | Specify the threshold enable flag.  
1: Alerts below threshold  
2: Alert over threshold  
3: 1 and 2 simultaneous judgment  
No threshold judgment except the above
---|---|---
Threshold Number  | D3 graph master  | For a line graph, specify the target data number to be compared with the threshold (beginning with "1").
---|---|---
Note Resource ID  | D3 graph master  | Specify a Note Resource ID by using a set Resource ID value in the resource master. In a graph displaying multiple data items, enumerate legend resource IDs for each data item, delimited by a comma.
---|---|---
Note Location  | D3 graph master  | Specify coordinates in the (X,Y) format for the location displaying a legend. In a graph displaying multiple data items, enumerate the coordinate values for each data item, delimited by a comma.  
Example) 3 data items displayed on 2 lines: (95,5),(195,5),(195,20)
---|---|---
Font size of Axis, Unit, Note  | D3 graph master  | Specify a value in pixels for a font size as the scale/unit/legend character size.
---|---|---
Data type  | Screen data master  | Specify the data types and data elements of performance data for data types 1 to 10 and data elements 1 to 10. Based on the graph type, the multiple data items specified here are displayed as a graph.

(d) Card

A card is data information displayed at an arbitrary location on the screen.

You need to register the following master data to configure the display of a card:

- Screen item master
- Screen data master
- Object master
- Object style master

Setting items

Delimiter Format Flag: Specify a separator format flag in the object style master.

With "Show" specified, the format for the thousands separator and decimal point is converted according to the locale category when displaying numerical values.

1: Show  
Other: The thousands separator is not shown and the decimal point is a period.

Decimal Precision: Specify the minimum number of digits displayed after the decimal point of numeric values to be displayed within the range of 1 to 3 in decimal point precision in the object style master.

Location, redraw interval, data place, data type, and time type:

Same as in "Graph" above

Area size, character color, background color, font, character size, box style, box color, and transparency:

Same as in "Menu" above.

(e) List

A list of data is displayed at an arbitrary location on the screen.

You need to register the following master data to configure the display of a list:
- Screen item master
- Screen data master
- Object master
- Object style master

Setting items
Location, redraw interval, data place, data type, and time type:
Same as in "Graph" above
Area size, character color, background color, font, character size, box style, box color, and transparency:
Same as in "Menu" above
Number of listed lines:
For the scale type, specify the number of past data items included in the performance data of the target time type.
Normally, the data does need to be aggregated since these lines are intended for Sequential performance data. Specify a value large enough to contain the listed records.

(f) Alarm
An indication showing that an alarm occurred is displayed at an arbitrary location on the screen.
This indication appears only at the occurrence of an alarm that is set as a target alarm.
You need to register the following master data to configure the display of an alarm:
- Screen item master
- Screen data master
- Alarm master
- Object master
- Object style master

Setting items
Location, redraw interval, and data place:
Same as in "Graph" above
Image file name, size, transparency, box style, and box color:
Same as in "Image" above
Target alarm:
Specify a screen data master by using a set alarm ID value in the alarm master. Specify an alarm level resource ID value for the alarm level.
If an incomplete alarm corresponds to the alarm ID, alarm level, and alarm data place specified here, the alarm is displayed to show that an alarm occurred.

g) Alarm details
Detailed alarm information is displayed at an arbitrary location on the screen.
This information appears only when an alarm that is set as a target alarm occurs at a set place.
Click to display the alarm condition input screen.
You need to register the following master data to configure the display of alarm details:
- Screen data master

Setting items
Location, redraw interval and data place:
Same as in "Graph" above
Area size, character color, background color, character size, box style, and box color:
Same as in "Label and menu" above
Target alarm:
Screen data master. Specify an alarm ID by using a set alarm ID in the alarm master. Specify an alarm level resource ID value for the alarm level.
If an incomplete alarm corresponds to the alarm ID, alarm level, and alarm data place specified here, and the place of this alarm is a specified data place, the alarm is displayed.

(h) Globe
Globe information is displayed at an arbitrary position on the screen.
You need to register the following master data to configure the display of the globe:
- Screen item master
- Globe master
- Screen item expansion master
- Object master

Setting items
Positions: Specify a location with pixel values originating at the top left as XY coordinates in the Screen item master.

Globe settings: Settings about the globe are configured in the globe master.

Item ID and values must be specified for each screen in the globe master.
See the following about items that can be registered.

Table 3.4.7.2.(4). Globe Master Settings

<table>
<thead>
<tr>
<th>Item ID</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSITION_LEFT</td>
<td>Position to display the globe. X coordinate relative to the object area from the left (px). Specify a numeric value.</td>
<td>400</td>
</tr>
<tr>
<td>POSITION_TOP</td>
<td>Position to display the globe. Y coordinate relative to object area from the top (px). Specify a numeric value.</td>
<td>5</td>
</tr>
<tr>
<td>SIZE_WIDTH</td>
<td>Width of the globe (px) Specify a numeric value.</td>
<td>1090</td>
</tr>
<tr>
<td>SIZE_HEIGHT</td>
<td>Height of the globe (px) Specify a numeric value.</td>
<td>950</td>
</tr>
<tr>
<td>TILEMAP_URL</td>
<td>URL of the globe image to draw in 3D and 2D (specify a folder)</td>
<td>/Build/Cesium/Assets/Textures/GrayEarth</td>
</tr>
<tr>
<td>SKYATMOSPHERE_SHOW</td>
<td>Atmosphere display switching flag 0: Hide, 1: Show</td>
<td>0</td>
</tr>
<tr>
<td>MAP_POSITION_3D</td>
<td>Initial display start coordinates of the globe (longitude: east longitude, latitude: north latitude, height: m) Specify items with numerical values separated by commas.</td>
<td>160.6776,35.66102,1200000.00</td>
</tr>
<tr>
<td>MAP_POSITION_2D</td>
<td>Initial display start coordinates of the central coordinates when displaying the 2D map (longitude: east longitude, latitude: north latitude, height: m) Specify items with numerical values separated by commas.</td>
<td>0,6.5,40000000</td>
</tr>
<tr>
<td>SCENE_MODE</td>
<td>Initial display mode of the map 1: World map (slanted), 2: World map, 3: Globe</td>
<td>3</td>
</tr>
<tr>
<td>SCENE_MODESELECTOR</td>
<td>Display control of a button for switching between the globe and the world map 0: Hide, 1: Show</td>
<td>0</td>
</tr>
<tr>
<td>ROTATE_SPEED</td>
<td>Rotation speed of the globe Specify a numeric value.</td>
<td>3</td>
</tr>
<tr>
<td>CIRCLE_HEIGHT</td>
<td>Ground height of the circle image displayed according to performance data (m)</td>
<td>200000</td>
</tr>
<tr>
<td>CIRCLE_OBJECT_TYPE</td>
<td>Type of circle image displayed according to performance data 1: Sphere, Number other than 1: Circle</td>
<td>0</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>CIRCLE_RADIUS_RATIO</td>
<td>Magnification of radius of the circle image displayed according to performance data</td>
<td>5000000</td>
</tr>
</tbody>
</table>
| GLOBE_ACTION            | Globe action  
0: None, 1: Rotation, 2: Cruise  
* For Cruise, the globe is displayed with registered positions switched in the order of CRUISE_ORDER in the screen item expansion master. | 1     |
| TOOLBAR_BOTTOM          | Position for displaying toolbar: bottom  
Specified with a CSS property value.                                                                                                                                                                           | 80px  |
| TOOLBAR_LEFT            | Position for displaying toolbar: left  
Specified with a CSS property value.                                                                                                                                                                          | auto  |
| TOOLBAR_RIGHT           | Position for displaying toolbar: right  
Specified with a CSS property value.                                                                                                                                                                           | 36px  |
| TOOLBAR_TOP             | Position for displaying toolbar: top  
Specified with a CSS property value.                                                                                                                                                                           | auto  |
| FADE_MODE               | Control the fade out of globe-linked objects.  
Globe-linked objects are objects whose screen ID and place ID are the same.  
0: No fade out, 1: Fade out                                                                                                                  | 0     |

Circle and cylinder: The circle and cylinder displayed according to performance data on the globe are specified in the screen item expansion master.  
Item ID and values must be specified for each screen and data location in the screen item expansion master. See the following about items that can be registered.
Table 3.4.7.2.(5). Screen item expansion master settings

<table>
<thead>
<tr>
<th>Item ID</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGION_VIEW_NUMBER</td>
<td>Region view number</td>
<td>0</td>
</tr>
<tr>
<td>REGION_POSITIONS</td>
<td>Region positions (longitude: east longitude, latitude: north latitude, height: m)</td>
<td>149.191706,36.689488,12000000</td>
</tr>
<tr>
<td>CYLINDER_RADIUS</td>
<td>Radius of the cylinder (m)</td>
<td>20000.0</td>
</tr>
<tr>
<td>CIRCLE IMAGES</td>
<td>Images for displaying the region circle (circle image file for normal use, circle image file for warning alarm, circle image file for critical alarm)</td>
<td>circle_normal.png,circle_alert.png,circle_error.png</td>
</tr>
<tr>
<td>CYLINDER_COLOR</td>
<td>Color for displaying the cylinder Specify red, green, blue, and transparency with a hexadecimal color code.</td>
<td>#00FFFFD0</td>
</tr>
<tr>
<td>SCALE_SBT_CIRCLE</td>
<td>Scale type of the circle</td>
<td>10</td>
</tr>
<tr>
<td>DATA_SBT_CIRCLE</td>
<td>Data type of the circle</td>
<td>RGN00</td>
</tr>
<tr>
<td>DATA_CAT_CIRCLE</td>
<td>Data element of the circle</td>
<td>004</td>
</tr>
<tr>
<td>SCALE_SBT_CYLINDER</td>
<td>Scale type of the cylinder</td>
<td>10</td>
</tr>
<tr>
<td>DATA_SBT_CYLINDER</td>
<td>Data type of the cylinder</td>
<td>RGN00</td>
</tr>
<tr>
<td>DATA_CAT_CYLINDER</td>
<td>Data element of the cylinder</td>
<td>005</td>
</tr>
<tr>
<td>ALARM_ID_WARNING</td>
<td>Warning alarm ID</td>
<td>alarm10</td>
</tr>
<tr>
<td>ALARM_LEVEL_WARNING</td>
<td>Warning alarm level</td>
<td>S_2_003</td>
</tr>
<tr>
<td>ALARM_ID_CRITICAL</td>
<td>Critical alarm ID</td>
<td>Alarm20</td>
</tr>
<tr>
<td>ALARM_LEVEL_CRITICAL</td>
<td>Critical alarm level</td>
<td>S_2_004</td>
</tr>
<tr>
<td>CRUISE_ORDER</td>
<td>Order referenced when the action of the globe is Cruise (Globe master.GLOBE_ACTION = 2). If not set, Cruise is not applicable.</td>
<td>1</td>
</tr>
</tbody>
</table>

(i) Component
- A component that can place an object with a parent-child relationship in an arbitrary position on the screen. The object can be placed in a position relative to a defined component.
- You need to register the following master data to configure the display of a component:
  - Screen item master
  - Object master
  - Object style master

Setting items
- Component ID: By specifying the object ID of the component set in the object master for the component ID in the screen item master, an object can be placed inside the component. Components can be defined in multiple hierarchies, but a child component cannot define a parent component.
- Location: Same as in "Image" above.
- Link destination: Same as in "Image" above. If the link destination of the object inside a component is not set, the settings of the component are carried over.
Area size: Specified values for width and height in pixels in the object style master.
Data location: Specified by the place ID value that is set within the place master in the place ID of the screen item master. If the link destination of the object inside a component is not set, the settings of the component are carried over.
Display text: Specified by the resource ID that is specified within the resource master in the resource ID in the screen item master. If the type of the object inside a component is a label and the link destination is not set, the setting of the component is carried over.

(j) Label
A text label is displayed at an arbitrary position on the screen.
The basic functions are the same as in "Menu" above. The difference from a menu is that a label can carry over the display text set for a component by being combined with the component.
In addition, when placed in the same screen as the globe, the link destination of the circle displayed on the globe is connected with the link destination specified in the label.
- Screen item master
- Object master
- Object style master

Setting items
Location, area size, character color, background color, font, character size, box style, box color, transparency, separator format flag, and decimal point precision
Same as in "Menu" above.
Link destination: Screen item master. Specify link method and link destination.
If placed on the screen where the globe is placed, the link destination of a circle with the same place ID set on the globe is the same as this specification.
The way to transition between screens differs depending on the link method value below.
0: Using the link destination value as a screen ID, transition to the screen with that screen ID.
1: Using the link destination value as a screen ID, display the screen with that screen ID in another window (tab).
2: Using the link destination value as a URL, display that URL in another window (tab).
3: Transition with the specified time type to a screen with the screen ID specified as [screen ID, time type] in CSV format within the link URL.
Display text: Specified with the resource ID value that is specified within the resource master in the resource ID in the screen item master. If not set, the resource ID of the component is carried over.

3.4.7.3. Adding a New Screen
The following procedure defines a new screen and allows users to move from an existing screen to the new screen. To create a screen for a newly added factory, a user with system administrator authority is asked to only register a new factory screen with the screen master. (At this time, the user sets a new factory ID for the registered factory ID of this screen.) Do not perform any other operation, such as adding the screen item master for this screen.
The factory administrator is asked to open a screen on which only a screen will be registered with the screen master. (The screen is blank, containing only the system menu, etc.) Then, the factory administrator is asked to use the master maintenance menu to, for example, edit the screen item master, and create a screen at a lower level in the hierarchy than a factory.
If the system administrator creates the contents of a factory screen from higher-level master maintenance, subsequent adjustments can be made only from higher-level master maintenance.
You need to register the following master data to configure the addition of the new screen:

- Screen master
- Screen item
- Screen data master

(1) Add a line about the new screen to the screen master.

Complementary items:

Screen ID: Arbitrary character string that is unique in the whole system.
  - There is a screen for every factory, line, facility, etc.
  - Create a screen for each display method to also, for example, switch the graph display method to by day/by month/by year from the menu on each screen.

Resource ID: ID of a resource character string that becomes a screen name.
  - The ID appears in, for example, the transition history at the top on the screen.

System menu hide flag:
  - Specify 1 to hide the system menu for master maintenance, etc. Regardless of this setting, the system menu is displayed for users who have system administrator authority.

Registered factory ID: ID representing a target factory of the master maintenance function, which is opened from the master maintenance system menu on this screen. Only the system administrator can edit it. CSV uploads by other administrators are ignored, as is the case with the registered factory IDs of other masters. The factory ID registered here is either W00, representing the top level of the system standard, or the factory ID. If the set value is anything else, the master maintenance function does not appear.

(2) Add a line for a screen element placed on the new screen to the screen master.

Complementary items:

Screen ID: ID representing the new screen. It is set in the screen master.
  - When placing an object directly on the screen, specify the ID of the display screen.
  - When placing an object inside a component, specify with - (a hyphen).

Component ID: The ID representing a component, set in the object master.
  - When placing an object (Screen ID is specified) directly on the screen, specify 0 as a fixed value.
  - When placing an object inside a component, specify the component ID to be displayed.

Object sequential number:
  - Sequential number distinguishing a screen element from others placed on this screen. Objects are arranged in ascending order accordingly.

XY coordinates: Location of a placed screen element

Object ID: Specify an ID value representing a screen element. The value is set in the object master and object style master. To use an already set object, specify its object ID. To use a new object, specify its object ID along with adding it to the object master and object style master.

Place ID: Specify the place of data to be displayed by a screen element that displays graph and other data.

Redraw interval: In this time interval, the latest data is reacquired and display is updated for a screen element that displays a graph and other data.

Linking method and link URL:
  - For a screen element, such as a menu, specify a destination for a screen transition from a mouse-click.

(3) Add a line for a screen element showing data placed on the new screen to the screen master.

Complementary items:

Screen ID: ID representing the new screen. It is set in the screen master.

Object sequential number:
  - Number corresponding to a screen element that is set in the screen item master

Time type: Specify which time type to target for collected data.

Scale type: Specify the extent of past data to target for collected data.
Data type and elements 1 to 10:
   Specify a data type and elements as targets for collected data.
Alarm ID and alarm level:
   Specify a target alarm for alarm display screen elements.

At this point, the screen settings are done.
Use the following settings to move from an existing screen to a created screen.

(4) Add a line for a menu element to the screen master.
   Complementary items:
      Screen ID: Screen ID of the transition source screen
      Object sequential number: Value obtained by adding one to the maximum object sequential number of the transition source screen
      X coordinate and Y coordinate: Location of a placed menu
      Object ID: Specify an ID value representing a screen element. The value is set in the object master and object style master.
      Linking method: Specify 0 or 1 (normally, 0).
      Link URL: Specify the screen ID (set in step (1) above) of the transition target screen.
3.4.7.4. Authority and Role
You can set an authority determining whether each screen or each screen element is displayed.
You need to register the following master data to set the authority:
- Screen master
- Screen item master

1) Setting the authority for each screen
   - Set a Role ID value set in the role master for the Role ID in the screen master.
   - If the specified role has not been added to the login user, this screen does not appear.

2) Setting the authority for each screen element
   - Set a Role ID value set in the role master for the Role ID in the screen item master.
   - If the specified role has not been added to the login user, this screen element does not appear.

3.4.8. Data Aggregation
Through batch processing, you can temporally and locally aggregate data that was sent and saved as Sequential performance data. The master that defines aggregation targets and calculation methods is called the totaling master. This section describes the settings of the totaling master.

3.4.8.1. Totaling Master
Batch aggregation processes the set data in the totaling master to aggregate Sequential performance data in the defined order. As shown below, contents processed with the settings of one record create one piece of performance data from two pieces of performance data. Batch aggregation processes the data sequentially. Before batch aggregation ends, all the set processes are executed, including the time aggregation process, place aggregation process, and other alarm processes.

The following table describes aggregation processes.

<table>
<thead>
<tr>
<th>Aggregation Types</th>
<th>Processing Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time aggregation</td>
<td>Summarizes data into data with a larger time unit. For example, this processing summarizes Sequential performance data into performance data by minute, or summarizes performance data by minute into performance data by hour. The total is calculated for each data place or data type.</td>
</tr>
<tr>
<td>Place aggregation</td>
<td>Calculates the total as place data at a higher level in the hierarchy. For example, this calculation summarizes facility performance data into process performance data, or summarizes process performance data into line performance data.</td>
</tr>
<tr>
<td>Other</td>
<td>Generates an average value, minimum/maximum value data, and data converted by unit.</td>
</tr>
</tbody>
</table>
based on a calculation specifying a calculation method or correction value.

The totaling master is also used for maintenance by factory. The batch aggregation process is one process that sequentially processes the totaling master records of all factories.

3.4.8.2. Aggregation Settings
This section describes the contents of collection settings.

(1) Sequential order
The sequential order is processed by batch collection. It must be unique in all the collecting master records.

(2) Aggregation range segment (input)
When aggregating by time, specify any of the following values for the time segment of input data.

<table>
<thead>
<tr>
<th>Value</th>
<th>Performance Data Target for Processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>010</td>
<td>Real time</td>
</tr>
<tr>
<td>020</td>
<td>Minutely</td>
</tr>
<tr>
<td>030</td>
<td>Hourly</td>
</tr>
<tr>
<td>040</td>
<td>By shift</td>
</tr>
<tr>
<td>050</td>
<td>Daily</td>
</tr>
<tr>
<td>060</td>
<td>Weekly</td>
</tr>
<tr>
<td>070</td>
<td>Monthly</td>
</tr>
<tr>
<td>080</td>
<td>By fiscal year</td>
</tr>
</tbody>
</table>

(3) Aggregation range segment (output)
When aggregating by time, specify the time segment of the processing output destination data. This specified value is the same as the input segment value described above. Sequential performance data cannot be specified for output. Also, the specified time segment cannot be less than or equal to the input time segment.

(4) Tracing period
When aggregating by time, set the time for processing the processing target time range by going to the past. Specify it in units of the output time segment time of the Aggregation range segment.

(5) Place ID (input 1)
Specify input data as an Aggregation target.

(6) Data type (input 1)
Specify input data as an Aggregation target.

(7) Data element (input 1)
Specify input data as an Aggregation target.

(8) Place ID (input 2)
When aggregating by place, specify a place combined with input 1.

(9) Data type (input 2)
Specify the data of input data 2.

(10) Data element (input 2)
Specify the data of input data 2.
(11) Aggregation segment  
Specify the operation method with the following values.

<table>
<thead>
<tr>
<th>Value</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Combination</td>
</tr>
<tr>
<td>02</td>
<td>Average</td>
</tr>
<tr>
<td>03</td>
<td>Minimum</td>
</tr>
<tr>
<td>04</td>
<td>Maximum</td>
</tr>
</tbody>
</table>

(12) Calculated value  
This value is used in the calculation specified by an operator when using a correction value in an operation segment. For example, to convert electric power data from W to kW, set the following:

Calculation segment 1, Calculated value 1000, Operation value '/'

(13) Operation segment  
To use a calculated value and operator to calculate a correction value, specify 1. To use the place of an acquisition resource directly, specify 0.

(14) Operator  
Specify an operator from the four arithmetic operations (+, -, *, and /).

(15) Place ID (output)  
Specify the processing output destination data.

(16) Data type (output)  
Specify the processing output destination data.

(17) Data element (output)  
Specify the processing output destination data.

(18) Output unit segment  
This unit of data is targeted at process output.
(19) Processing flag
To retain the set contents without actually processing them, specify 0.
To process them, specify 1.

The following table shows setting examples such as a combination of both input 1 and input 2 into output to aggregate by time.

<table>
<thead>
<tr>
<th>No.</th>
<th>Input 1</th>
<th>Input 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Place ID</td>
<td>Data Type</td>
</tr>
<tr>
<td>1</td>
<td>Place 1</td>
<td>Temperature 1</td>
</tr>
<tr>
<td>2</td>
<td>Place 1</td>
<td>Temperature 1</td>
</tr>
<tr>
<td>3</td>
<td>Place 1</td>
<td>Temperature 1</td>
</tr>
<tr>
<td>4</td>
<td>Place 4</td>
<td>Temperature 2</td>
</tr>
</tbody>
</table>

Table 3.4.8.2.3. Totaling Master Settings (Continued)

<table>
<thead>
<tr>
<th>No.</th>
<th>Output Segment</th>
<th>Value</th>
<th>Calculated Value</th>
<th>Operator</th>
<th>Output Place ID</th>
<th>Data Type</th>
<th>Data Element</th>
<th>Output Unit Segment</th>
<th>Processing Flag</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01</td>
<td>0</td>
<td>0</td>
<td>/</td>
<td>Place 3</td>
<td>Temperature 1</td>
<td>Value 31</td>
<td>01</td>
<td>1</td>
<td>Collect from real-time to minutes</td>
</tr>
<tr>
<td>2</td>
<td>01</td>
<td>0</td>
<td>0</td>
<td>/</td>
<td>Place 3</td>
<td>Temperature 1</td>
<td>Value 32</td>
<td>01</td>
<td>1</td>
<td>Collect from minutes to hours</td>
</tr>
<tr>
<td>3</td>
<td>01</td>
<td>0</td>
<td>0</td>
<td>/</td>
<td>Place 3</td>
<td>Temperature 1</td>
<td>Value 33</td>
<td>01</td>
<td>1</td>
<td>Collect from hours to days</td>
</tr>
<tr>
<td>4</td>
<td>01</td>
<td>1000</td>
<td>1</td>
<td>/</td>
<td>Place 6</td>
<td>Temperature 2</td>
<td>Value 34</td>
<td>01</td>
<td>1</td>
<td>Change unit when collecting from real-time to minutes</td>
</tr>
</tbody>
</table>
3.4.9. **Resource**
Text displayed on the screen shows content based on either a language category set in the locale category for the login user or a display language switching value specified on the screen. (*)
Text displayed on the screen is stored in the resource master, and provided and managed with a resource ID. When the text appears, the appropriate resource master displays text data according to the language category.
The language category set for the locale category for a user and the resource data corresponding to all language categories selected for the display language switching on the screen must all be set in the resource master. If resource data without a language category exists, settings of the default language category (English) are used.

* Text such as the failure notification text reported from a facility is displayed as a system-specific message regardless of the locale.

![Figure 3.4.9. Relationship of resources](image)

You need to register the following master data to configure the resource master:
- Resource ID
- Language
- Message
- Resource function ID

The setting contents are as follows.

1. **Resource ID**
   This ID represents the displayed text.

2. **Language**
   This language category character string is set in the language master.

3. **Message**
   This is the text actually displayed on the screen.

4. **Resource function ID**
   This ID is used to identify a resource for a specific function defined in the system.
   3: ID representing an alarm response condition. The resource that is set with this value becomes a choice for the alarm conditions at the input time of an alarm comment. (The choices are arranged in the order of resource IDs.) If you added a language category, set 3 for the response condition resource of the language category. The maximum number of alarm levels is 10. For resources that do not need an alarm level, you can delete this value or empty the message contents to narrow the alarm level.
   The resource ID S_3_100 is a resource for completing an alarm. Select this resource item from the choices on the alarm comment screen to complete the alarm. Note that you cannot complete the alarm if this resource is not set.
Chapter 4  How to Use (Administrator Functions)
This chapter describes operating procedures for Intelligent Dashboard with administrator authority. For operating procedures to use Intelligent Dashboard with user authority, see "Chapter 5 How to Use (User Functions)."

4.1. How to Use the System Menu
4.1.1. Access to Intelligent Dashboard
To log in to Intelligent Dashboard, click Intelligent Dashboard from the COLMINA portal screen. Alternatively, please go directly to the URL specified in "Data visualization powered by Intelligent Dashboard URL" of the returned mail for application in new service. When clicked or accessed, the following COLMINA Secure Authentication screen is displayed. Below, the screen image shows the content display area of the browser. Also, please do not use Internet Explorer return, forward, F5 key (update to the latest information) button etc. (There is a possibility of malfunction, operation guarantee is not possible).

![COLMINA Secure Authentication screen](image1)

In this screen, enter the user name and password, and click the Log in button. When login authentication succeeds, the world screen (standard set screen) is displayed. This is the top screen after logging in of Intelligent Dashboard.

![World Screen (Standard Set Screen)](image2)
4.1.2. **How to Log Out**

To exit, click the [Close] button of the browser. Then, you exit Internet Explorer.

![How to close the browser](image)

**Figure 4.1.2.1. How to close the browser**

4.1.3. **Top Screen After Login (World Screen)**

After logging in on the Login screen of Intelligent Dashboard, the world screen (standard set screen) is displayed, and you can select a language by clicking the "Language" pull-down menu at the top right of this screen. This world screen (standard set screen) is configured to display a pull-down menu with English and Japanese. In the language setting, the system administrator can change the languages to select from the pull-down menu.

![Language Selection Screen](image)

**Figure 4.1.3.1. Language Selection Screen**
Click the [Japan] object or the circle on the globe on the world screen (standard set screen).

Figure 4.1.3.2. World Screen (Standard Set Screen)

Click [Factory] (Tsurugashima) on the Japan screen (Standard set screen).

Figure 4.1.3.3. Japan Screen (Standard Set Screen)
Click [Line04] on the Tsurugashima Factory screen (Standard set screen).

* The circle is not displayed when there is no performance data.

Figure 4.1.3.4. Factory Screen (Standard Set Screen)

The line screen appears (Standard set screen). Click the [Procurement] showing the alarm.

Figure 4.1.3.5. Line Screen (Standard Set Screen)
The procurement screen appears (standard set screen). Click the alarm.

![Procurement Screen (Standard Set Screen)](image)

**Figure 4.1.3.6. Procurement Screen (Standard Set Screen)**

The status and comment input screen appears.

1. Select a status from the pull-down menu.
2. Fill in the comment field.
3. Click the [Registration] button.

![Status and Comment Input Screen](image)

**Figure 4.1.3.7. Status and Comment Input Screen**
The status is updated when submitted.

On the alarm history screen, you can check the status and comment entered in the standard set screen setting example.

4.1.4. **Alarm History Screen**

Use the alarm history screen to check the alarm status updated in the previous section.

The alarm history screen is displayed by clicking the button on the system menu and clicking the alarm history.

---

**Figure 4.1.3.1. Select Alarm History Screen**

**Figure 4.1.3.8. Screen After Status Input**

The status would be updated.
The alarm history screen appears.

(1) A separate window opens to display the alarm history screen.
(2) Select a date (start date and time, end date and time), place, alarm level, and status.
   * Specify not only dates but also times. Without a time specified, the search does not work correctly.
(3) Click the [Search] button.
(4) The search results appear, so you can check the status.
(5) Select [Close] to close the window containing the alarm history screen.

![Alarm History Screen](image)

**Figure 4.1.3.2. Alarm History Screen**

<table>
<thead>
<tr>
<th>No.</th>
<th>Search Item</th>
<th>What is Selected/Entered for Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alarm occurrence</td>
<td>Start year, month, day, and time (hour and minute) and end time (hour and minute) of alarm occurrence</td>
</tr>
<tr>
<td>2</td>
<td>Place</td>
<td>Unit of the hierarchy defined by the service user, such as line or facility</td>
</tr>
<tr>
<td>3</td>
<td>Alarm level</td>
<td>Attention, Warning, Emergency</td>
</tr>
<tr>
<td>4</td>
<td>Status</td>
<td>No response, Checking, Investigating, Preparing, Response requested, Reinvestigated, Responding, Response done</td>
</tr>
</tbody>
</table>

<Supplementary information>

* The system administrator can define and set the colors for detail lines according to the alarm level. The default settings are as follows: attention: no color, warning: yellow, emergency: red.
* If the search results exceed 1,000 records, a dialog message appears, and then a list displays up to 1,000 records.
4.1.5. **Access Log (Administrator)**

The access log screen for checking the user's usage status is displayed. The access log screen is displayed by clicking the button on the system menu and clicking the access log.

![Figure 4.1.5.1. Access Log (Administrator) Screen (1)](image)

The access log screen appears.

1. Enter dates and times (start date and time, end date and time), a log level, and a user name.
2. Click the [Search] button.

![Figure 4.1.5.3. Access Log (Administrator) Screen (3)](image)

The search results appear, so you can check the access log. You can exit the batch log screen by clicking the [Back.] button.

![Figure 4.1.5.4. Access Log (Administrator) Screen (4)](image)
4.1.6. **Batch Log (Administrator)**
Display the batch log screen to check the execution status (normal, error) of batch processing such as various aggregation process. The batch log screen is displayed by clicking the button of the system menu and clicking the batch log.

![Batch Log Screen](image)

**Figure 4.1.6.1. Batch Log (Administrator) Screen (1)**

The batch log screen appears.

1. Specify dates and times (start date and time, end date and time) and a log level.
2. Click the [Search] button.

![Batch Log Screen](image)

**Figure 4.1.6.2. Batch Log (Administrator) Screen (2)**
The search results appear. You can exit the batch log screen by clicking the [Back.] button.

### 4.1.7. Change the Displaying Date/Time

The display date change is used when you want to display the data of the specified date and time in the past, not the data of the current date and time. On the System menu, click [Change displayed date].

The screen to be displayed is the screen at the lower hierarchical level than the Japanese screen (standard setting screen). The specified date and time is based on the date and time of the locale set by the user. To change the operation method, click [Change displayed date] from the System Menu. As the display date change screen is displayed, set the date and time you want to display, and then click the OK button.

![Change the Date and Time Screen](image1)

![Batch Log (Administrator) Screen](image2)
The screen displays the status as of the specified date and time. The specified date and time appear on the screen.

Figure 4.1.7.2. Change the Date and Time Screen (2)

While [Change displayed date] is set for display, the system menu is set to display only two options (Change displayed date, Update to current time). To change the displaying date/time to the current date and time, refresh the screen as described below.

Figure 4.1.7.3. Change the Date and Time Screen (3)
4.1.8. **Screen Refresh**

To cancel [Change displayed date], click [Update to current time] from the system menu.

![Figure 4.1.8. Refreshing the Screen](image1)

4.1.9. **How to change display language**

Users can freely change the language for the display language defined and set by the system administrator. By clicking on the language selection (Language), you can select the language. (In the standard setting screen, it is set so that pull down of English and Japanese is displayed. The system administrator can change it.)

![Figure 4.1.9. How to change display language](image2)
4.1.10. **Action to Take When the Top Screen Fails to Appear**

If the screen master or user master has any incorrect setting, the top screen after login may not appear and even system maintenance functions may become unavailable. For such situation, there is an emergency master maintenance screen accessible at following URL. The login URL of the visualization service and the tenant ID are the URL and ID described in the notification of service activation.

https:// login URL of the visualization service/I-DB/tenant ID/master?f=Place ID of maintenance target factory

E.g.

<table>
<thead>
<tr>
<th>FQDN</th>
<th>Tenant ID</th>
<th>Factory ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colmina-sp-idb-1.jp-stg-1.pass.cloud.global.fujitsu.com</td>
<td>AB000001</td>
<td>J01</td>
</tr>
</tbody>
</table>

Access the URL, and then the maintenance screen will appear right after the login authentication.

![Master Maintenance Screen](image)

Figure 4.1.10. Master Maintenance Screen (Emergency)

Perform master data maintenance on this screen. For details on the maintenance, check "3.4.1 Master Maintenance Procedures."
Chapter 5 How to Use (User Functions)
5.1 How to Login
5.1.1 Login Authentication
To log in to Intelligent Dashboard, click Intelligent Dashboard from the COLMINA portal screen.
Or, if you want to access "data visualization powered by Intelligent Dashboard" directly, please contact the tenant operator.
When clicked or accessed, the following COLMINA Secure Authentication screen is displayed. Below, the screen image shows the content display area of the browser.
Also, please do not use Internet Explorer return, forward, F5 key (update to the latest information) button etc. (There is a possibility of malfunction, operation guarantee is not possible).

Figure 5.1.1. COLMINA Secure Authentication screen
In this screen, enter the user name and password, and click the Log in button. When login authentication succeeds, the world screen (standard set screen) is displayed. This is the top screen after logging in of Intelligent Dashboard.

It is the top screen of Intelligent Dashboard.

Figure 5.1.2. World Screen (Standard Set Screen)
5.2. How to Use the Password Change Screen
5.2.1. Changing a Password
You can change your password at COLMINA portal. For details, see "3.3.1.2. Change Password."

5.3. What to Do When You Have Forgotten Your Password
5.3.1. When You Have Forgotten Your Password
If you have forgotten your password, contact the tenant operator. Tenant operator must change your password using COLMINA portal user setting screen. For details, see "3.3.2. User Setting."

5.4. How to Use the System Menu
In Intelligent Dashboard, [Alarm history], [Change the displaying date/time], and [Screen refresh] have been prepared as standard functions available to users. They can be called from the system menu.
The system administrator can customize the settings for screens called from the system menu by using screen setting definitions. This section presents how users use the system menu from the standard set screens. The system menu can be customized.
The hierarchy in the standard set screens has five levels. From highest to lowest, they are world screen, region (country) screen, factory screen, line screen, and facility screen. Users can activate the system menu from the factory screen, line screen, and facility screen.
5.4.1. **Alarm History**

Use the alarm history screen to check the alarm status updated in the previous section. The alarm history screen is displayed by clicking the button on the system menu and clicking the alarm history.

![Figure 5.4.1. Select alarm history screen](image)

The alarm history screen appears.

1. A separate window opens to display the alarm history screen.
2. Select a date (start date and time, end date and time), place, alarm level, and status.
   * Specify not only dates but also times. Without a time specified, the search does not work correctly.
3. Click the [Search] button.
4. The search results appear, so you can check the status.
5. Select [Close] to close the window containing the alarm history screen.

![Figure 5.4.1.2. Alarm History Screen](image)
Table 5.4.1. Search condition in alarm history

<table>
<thead>
<tr>
<th>No.</th>
<th>Search Item</th>
<th>What is Selected/Entered for Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alarm occurrence time</td>
<td>Start year, month, day, and time (hour and minute) and end time (hour and minute) of alarm occurrence</td>
</tr>
<tr>
<td>2</td>
<td>Place</td>
<td>Unit of the hierarchy defined by the service user, such as line or facility</td>
</tr>
<tr>
<td>3</td>
<td>Alarm level</td>
<td>Attention, Warning, Emergency</td>
</tr>
<tr>
<td>4</td>
<td>Status</td>
<td>Open, Checking, Investigating, Preparing, Request, Re-Investigation, Ongoing, Closed</td>
</tr>
</tbody>
</table>

* The system administrator can define and set the colors for detail lines according to the alarm level. The default settings are as follows: attention: no color, warning: yellow, emergency: red.
* If the search results exceed 1,000 records, a dialog message appears, and then a list displays up to 1,000 records.

5.4.2. Change the Displaying Date/Time

Use [Change displayed date] to display data not from the current date and time but from a past date and time. Click [Change displayed date] from the system menu. If the displaying date/time has not been changed, the screen displays data from the current date and time. Screens to be displayed are the screens of the standard setting screen below the world / Japan. The specified date and time have to conform to the date and time of the locale set by the user. The procedure to specify them is to first click [Change displayed date] on the system menu. The Change the displaying date/time screen appears. Set the desired displaying date/time, and click the [OK] button.

![Figure 5.4.2.1. Change the Displaying Date/Time Screen (1)](image-url)
The screen is redrawn with data from the selected/specifed date and time. (Which is shown at the top right of the screen.)

Figure 5.4.2.2. Change the Displaying Date/Time Screen (2)

While [Change displayed date] is set for display, the system menu is set to display only two options (Change displayed date, Update to current time). To change the displaying date/time to the current date and time, refresh the screen as described below.

Figure 5.4.2.3. Change the Displaying Date/Time Screen (3)
5.4.3. **Screen Refresh**

To cancel [Change displayed date], click [Update to current time] from the system menu.

![Figure 5.4.3. Refreshing the Screen (1)](image)

5.5. **How to Change the Display Language**

Users can freely change the language for the display language defined and set by the system administrator. By clicking on the language selection (Language), you can select the language. (In the standard setting screen, it is set so that pull down of English and Japanese is displayed. The system administrator can change it.)

![Figure 5.5. How to change display language](image)
5.6. How to Start Processing for and Enter a Status and Comment

Data exceeding the threshold set by the system administrator is displayed as an alarm. You can enter the correspondence status for the alarm display.

Figure 5.6.1. Factory Screen (Standard Set Screen)

On the compliance status comment screen, you can enter comments with the correspondence status of the alarm that is occurring (unsupported, checking in progress, under investigation, preparing, response request, re-survey, in progress, response completed) I can do it.

1) The status and comment input screen appears.
2) Select a status from the pull-down menu.
3) Fill in the comment field.
4) Click the [Registration] button.

Figure 5.6.2. Correspondence situation comment input screen
Once registered, the correspondence status is updated and displayed on the screen of the device. In the display, the contents entered are displayed in chronological order, and you can also see the correspondence situation and comments registered by other users.

![The status would be updated.](image)

Figure 5.6.3. Screen After Status Input

You can check the entered status and comment on the alarm history screen.

### 5.7. Operation on the Globe Screen

The globe screen can be customized. This section describes an example of the operation of the globe screen on the standard set screen.

In the standard set screen, the top screen "World Map" is the globe screen.

![Figure 5.7.1. World Screen (Standard Set Screen), Globe](image)
A globe rotates on its axis on the globe screen. The "Japan" object fades out when "Japan" goes outside of the display area due to rotation. Wait until "Japan" comes into the display area or rotate the globe by dragging with the mouse to make the "Japan" object fade in.

![Figure 5.7.2. World Screen (Standard Set Screen), Japan Fades Out](image)

By scrolling the mouse on the globe, the globe can be zoomed in and out.

![Figure 5.7.3. World Screen (Standard Set Screen), Zoomed in](image)

Clicking the toolbar at the bottom right of the screen expands the toolbar. The screen can be switched between "globe", "world map", and "world map (slanted)."
Figure 5.7.4. World Screen (Standard Set Screen), Toolbar Expanded

Figure 5.7.5. World Screen (Standard Set Screen), World Map
5.8. Example of Screen Transitions with Hierarchical Screens
The system administrator can customize the hierarchical screens by using screen setting definitions. This section introduces an example of a method of screen transition between hierarchical screens that are standard set screens. The standard set screens have five levels. From highest to lowest, they are world screen, japan screen, factory screen, line screen, and facility screen.

Using an example of screen transitions to lower-level screens, this section describes the operating procedure for screen transitions in the default set screens.
(1) The top screen in the standard set screens is the world screen. Click the "Japan" object or the circle on the globe for the region (country) at the next level down in the hierarchy. * The circle is not displayed when there is no performance data.

Figure 5.8.1. World Screen (Standard Set Screen)

(2) "Japan" appears as the region (country) screen name. Select (click) [Tsurugashima Factory] as the next level down in the hierarchy.

Figure 5.8.2. Japan Screen (Standard Set Screen)
(3) “Tsurugashima Factory” appears as the factory screen name. Select (click) the line 04 as the next level down in the hierarchy.

Figure 5.8.3. Factory Screen (Standard Set Screen)

(4) The [Line 04] line appears as the line screen. Select (click) the [Procurement] facility as the next level down in the hierarchy.

Figure 5.8.4. Line Screen (Standard Set Screen)
(5) The [Procurement] facility appears as the facility screen. The [Procurement] facility screen is at the lowest level of the standard set screens.

Next, as an example of screen transitions to higher-level screens, the operating procedure described below shows a screen transition to a higher level by selecting from the topic paths including to the top screen.

(1) This lowest-level screen in these standard set screens is the Procurement screen. Select (click) [Tsurugashima Factory] for the factory screen at a higher level, from the topic paths located at the top left of the screen.
(2) The factory screen named “Tsurugashima Factory” appears.

![Image of Tsurugashima Factory Screen](image1)

Figure 5.8.7. Tsurugashima Factory Screen (Standard Set Screen)

5.9. Example of What to Do to Transition to the Graph List Screen

The system administrator can customize the graphs screen by using screen setting definitions. This section describes an example of what to do to transition to the graphs screen that is a standard set screen.

The graph list screen in these standard set screens can transition from the Tsurugashima Factory screen.

1. Click the [Graphs] button at the top right of the Tsurugashima Factory screen.

![Image of Transition from Tsurugashima Factory Screen to Graph List Screen](image2)

Figure 5.9.1. From the Tsurugashima Factory Screen to the Graph List Screen (Standard Set Screen)
(2) The Graphs screen appears as a comparison screen.

Figure 5.9.2. The Graph List Screen (Standard Set Screen)

(3) Click the topic path to the higher-level screen to go back.

Figure 5.9.3. From the Graph List Screen to the Tsurugashima Factory Screen (Standard Set Screen)
5.10. How to Log Out

Click the [Close] button of browser to logout from Intelligent Dashboard.

Figure 5.10. Closing the Browser to Logout
5.11. **How to Exit**

Click the [X] (Close) button at the top right of any screen to exit.

![Figure 5.11. How to exit the browser](image)

Figure 5.11. How to exit the browser
## Chapter 6  
List of Error Messages

<table>
<thead>
<tr>
<th>No.</th>
<th>Message ID</th>
<th>Message Type</th>
<th>Message Description</th>
<th>Variable Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>S_E001</td>
<td>Error</td>
<td>There is an error in an entry.</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>S_E002</td>
<td>Error</td>
<td>The number of digits is incorrect.</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>S_E003</td>
<td>Error</td>
<td>Be sure to enter the %1.</td>
<td>%1: Item</td>
</tr>
<tr>
<td>4</td>
<td>S_E004</td>
<td>Error</td>
<td>Processing aborted because the file layout is incorrect.</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>S_E005</td>
<td>Error</td>
<td>The number of entered digits on &quot;%1&quot; is incorrect.</td>
<td>%1: Item</td>
</tr>
<tr>
<td>6</td>
<td>S_E006</td>
<td>Error</td>
<td>There is no valid data.</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>S_E007</td>
<td>Error</td>
<td>&quot;%1&quot; is not a recognizable date/time.</td>
<td>%1: Item</td>
</tr>
<tr>
<td>8</td>
<td>S_E008</td>
<td>Error</td>
<td>&quot;%1&quot; is not a recognizable numeric value.</td>
<td>%1: Item</td>
</tr>
<tr>
<td>9</td>
<td>S_E009</td>
<td>Error</td>
<td>&quot;%1&quot; is an invalid value.</td>
<td>%1: Item</td>
</tr>
<tr>
<td>10</td>
<td>S_E010</td>
<td>Error</td>
<td>You have not logged in. Log in from the login page.</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td>S_E011</td>
<td>Error</td>
<td>There is no download file.</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>S_E012</td>
<td>Error</td>
<td>A fatal error occurred during the DB operation. %1</td>
<td>%1: Exception information</td>
</tr>
<tr>
<td>13</td>
<td>S_E013</td>
<td>Error</td>
<td>A fatal error occurred. %1</td>
<td>%1: Exception information</td>
</tr>
<tr>
<td>14</td>
<td>S_E014</td>
<td>Error</td>
<td>&quot;%1&quot; is not registered in the master.</td>
<td>%1: Item value</td>
</tr>
<tr>
<td>15</td>
<td>S_E015</td>
<td>Error</td>
<td>An error occurred during registration processing.</td>
<td>-</td>
</tr>
<tr>
<td>16</td>
<td>S_E016</td>
<td>Error</td>
<td>An error occurred during update processing.</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>S_E017</td>
<td>Error</td>
<td>An error occurred during retrieval processing.</td>
<td>-</td>
</tr>
<tr>
<td>18</td>
<td>S_E018</td>
<td>Error</td>
<td>You do not have the authority.</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>S_E019</td>
<td>Error</td>
<td>Uploading a file with 0 bytes is not permitted.</td>
<td>-</td>
</tr>
<tr>
<td>20</td>
<td>S_E020</td>
<td>Error</td>
<td>Execution is not possible because activation is already in progress.</td>
<td>-</td>
</tr>
<tr>
<td>21</td>
<td>S_E021</td>
<td>Error</td>
<td>The file exceeds the maximum file upload size [%1].</td>
<td>-</td>
</tr>
<tr>
<td>22</td>
<td>S_E022</td>
<td>Error</td>
<td>An error occurred. Check the log.</td>
<td>-</td>
</tr>
<tr>
<td>23</td>
<td>S_E023</td>
<td>Error</td>
<td>An error occurred at %1%2. %3</td>
<td>%1: Processing name, %2: Additional information, %3: Exception information</td>
</tr>
<tr>
<td>24</td>
<td>S_E024</td>
<td>Error</td>
<td>There is no upload file.</td>
<td>-</td>
</tr>
<tr>
<td>25</td>
<td>S_E025</td>
<td>Error</td>
<td>The target upload directory does not exist.</td>
<td>-</td>
</tr>
<tr>
<td>26</td>
<td>S_E026</td>
<td>Error</td>
<td>The upload file exceeds the maximum size of [%1].</td>
<td>%1: Maximum file size</td>
</tr>
<tr>
<td>27</td>
<td>S_E027</td>
<td>Error</td>
<td>Line %1: &quot;%2&quot; is a required item.</td>
<td>%1: Line number, %2: Item</td>
</tr>
<tr>
<td>28</td>
<td>S_E028</td>
<td>Error</td>
<td>Line %1: &quot;%2&quot; is not a recognizable numeric value.</td>
<td>%1: Line number, %2: Item</td>
</tr>
<tr>
<td>29</td>
<td>S_E029</td>
<td>Error</td>
<td>Line %1: &quot;%2&quot; is not a recognizable date/time.</td>
<td>%1: Line number, %2: Item</td>
</tr>
<tr>
<td>30</td>
<td>S_E030</td>
<td>Error</td>
<td>Line %1: The number of entered digits on &quot;%2&quot; is incorrect.</td>
<td>%1: Line number, %2: Item</td>
</tr>
<tr>
<td>31</td>
<td>S_E031</td>
<td>Error</td>
<td>Invalid access</td>
<td>-</td>
</tr>
<tr>
<td>32</td>
<td>S_E032</td>
<td>Error</td>
<td>Line %1: Information on another factory cannot be updated.</td>
<td>%1: Line number</td>
</tr>
<tr>
<td>33</td>
<td>S_E033</td>
<td>Error</td>
<td>Line %1: There is a duplicate record.</td>
<td>%1: Line number</td>
</tr>
<tr>
<td>ID</td>
<td>Category</td>
<td>Message</td>
<td>Details</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>-----------</td>
<td>-------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Error</td>
<td>The image folder is full.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Error</td>
<td>The number of records exceeds the downloadable number of records of [%1].</td>
<td>%1: Number of downloadable records</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Error</td>
<td>The master definition contains an error. %1</td>
<td>%1: Detail</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Error</td>
<td>Invalid file name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Warning</td>
<td>The search results exceed %1 records. Up to %1 records will be displayed.</td>
<td>%1: Upper limit on records to display</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Warning</td>
<td>%1 will be updated. OK?</td>
<td>%1: Name of table to update</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Warning</td>
<td>%2 record(s) will be deleted from %1. OK?</td>
<td>%1: Name of deletion target table, %2: Number of records to delete</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Warning</td>
<td>A file with the same file name already exists. OK to overwrite?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Information</td>
<td>%1%2 has started.</td>
<td>%1: Processing name, %2: Additional information</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>Information</td>
<td>%1 ended normally.</td>
<td>%1: Processing name</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Information</td>
<td>%1 terminated with a warning.</td>
<td>%1: Processing name</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Information</td>
<td>%1 ended abnormally. %2</td>
<td>%1: Processing name, %2: Exception information</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Information</td>
<td>File uploading completed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Information</td>
<td>File downloading completed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Information</td>
<td>Image file uploading completed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>Information</td>
<td>Status update completed. [Status: %1/Comment: %2]</td>
<td>%1: Status, %2: Comment</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Information</td>
<td>%1 completed. Table ID: %2; Number of records: %3</td>
<td>%1: Processing name, %2: Table ID, %3: Number of deleted records</td>
<td></td>
</tr>
</tbody>
</table>