NTT DaTa

intra-mart

The Power for Enterprise Web Solution

intra-mart WebPlatform/ AppFramework

Administrator Guide

Ver. 6.1

株式会社 NTTデータ イントラマート

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intra-mart WebPlatform/
AppFramework

Chapter 1 System Administrators

1.1 Responsibilities of System Administrator and Login Process

intra-mart Ver6.1 can be used like ASP (Multi-share application), in which single intra-mart system will be shared by multiple numbers of groups such as independent corporations and organizations. While utilizing exactly the same hardware and applications, each group may have their own specific settings of roles, users, menus and databases, giving them the feel of using an individual intra-mart dedicated to themselves.

In intra-mart, each group and its administrator are called “Login Group” and “Login Group Administrator” respectively. “System Administrator” is the one in charge of both “Login Groups” and “Login Group Administrators”.

<”System Administrator” is totally in charge of multiple numbers of login groups>

1.1.1 Responsibilities of System Administrator

System Administrator is responsible to administrate the common settings such as database setting of intra-mart, as well as the following settings related to the Login Groups and their Administrators.

Database Connection Settings	Carrying out the database connection setting of intra-mart.
System Administrator Settings	Setting the login name and password of the system administrator him/herself.
License Control	Checking the purchased licenses, and importing of the default data and sample data to each login group.
Login Group Control	Administrate the settings of the login groups and their administrator.
Control Menu Settings	Administrate the menu displayed on the login group administrator screen.

1.1.2 Login by System Administrator

System Administrator logs onto the intra-mart according to the following procedure.

1 Launch a browser and enter the URL of intra-mart as shown below.

The login screen of intra-mart will be displayed in the screen page.

intra-mart WebPlatform (stand-alone) :http://machine address:8080/imart/system.admin
intra-mart WebPlatform (distributed system) :URL matched to the registered information of web server connector
intra-mart Apprameworck :URL matched to the information of intra-mart registered with the web application server

- If intra-mart WebPlatform run on the stand-alone mode, the port number of URL (port number of the web server) is possible to be specified at the time of installation.
- It is recommended to bookmark the URL for your convenience.

2 Enter the User Name and Password on the Login Screen, and then click on [Login] button.

<Login screen of intra-mart>

- The System Administrator's default user name and password are shown below. It is recommended to change them accordingly in the [System Administrator Setting] menu after the first login.

User Name:system Password:manager

<The default screen of intra-mart when login as a system administrator>

- The source code of the default login screen for System Administrator
%Resource Service%/pages/platform/src/system/security/common folder
- The source of default page for System Administrator
%Resource Service%/pages/platform/src/system/security/system folder
- The setting of the login screen and default page for System Administrator can be configured using: security-config/super-user-security/page-provider tag in the %Server Manager%/conf/access-security.xml file.

1.1.3 Home Page

Home page is the default screen first displayed when first login onto intra-mart. If the user have selected other menus and have other screens displayed, click on the [HOME] button in the upper left corner of the screen to go back to the Home page.

1.1.4 System Administrator Menu

The following menu for System Administrator is displayed on the left side of the Home page.

System Environment	Display the intra-mart's system environment setting values.
System Administrator Settings	Set the System Administrator's login name and password.
License	To verify the purchased licenses, and import the default data and sample data for each login group.
Login Group Settings	Manage the settings of the login groups and their administrators.
Login Group License	Set the number of licenses per login group.
Control Menu Setting	Manage the menu displayed on the login group administrator page.
File Operations	This is a utility function to manage the files and directories under %StorageServiceRoot%/storage/
Database Operations	This is a tool to execute SQL statements directly on a database.

1.1.5 Log-out from intra-mart

Users log out of intra-mart and end the program by returning to the login screen. In order to go back to the login screen, click on the [LOGOUT] button located on top of the left menu of the screen.

- If the user closes the browser or leaves the intra-mart pages without clicking on the [LOGOUT] button, the intra-mart server will consider the user status as "log-in" until the session has timed out. Please do not forget to click on the [LOGOUT] button.

Column

Administration of password history

As a way to strengthen password function, you can administrate password history. Main functions are as follows.

Administration of password history(Generation administration)

Administration of expiration date of password

Check of password input

If you administrate password history, password change screen page will automatically be displayed at the first login or when password is expired. In this case, you can logon normally by changing your password. General users can configure when password expiration notice is made in [user administration] – [attribute setting] screen page.

● Configuration of password history administration

You can change the configuration by editing the following file under conf, in which intra-mart WebPlatform is installed.

password-history.xml

Following is an example to describe password-history.xml.

```
<password-history>
  <group-default accessor-class="jp.co.intra_mart.foundation.security.password.StandardPasswordHistoryAccessor">
        <change-password-first-login>false</change-password-first-login>
        <password-expire-limit>0</password-expire-limit>
                              ・
                    A group of default parameter
                              ・
    </group-default>

   <group   name="default" accessor-class="jp.co.intra_mart.foundation.security.(continued)

password.StandardPasswordHistoryAccessor">
          <change-password-first-login>true</change-password-first-login>
          <password-expire-limit>0</password-expire-limit>
                              ・
                    A group of login group parameter
                              ・
      </group>
</password-history>
```

Following is a list of prepared tags.

Tag name	Attribute	Explanation	Default value
change-password-first-login	(non)	Configure whether password change is requested or not at the first login	false
password-expire-limit	(non)	Configure the expiration duration (days) of password. If it is 0, there is no expiration date.	0
password-history-count	(non)	Configure how many generations you can administrate. If it is 0, it means that you do not administrate.	0

deny-client-types	(non)	Type of description client is not shifted to password change screen page.	mobile
password-expire-page	(non)	Configure the URL of password change screen page	(refer to *1)
check-password	Enable	Specify whether password check is used or not enable attribute： true：use false：non-use	false
check-password-length	Enable	Configure whether there is limitation of password character number or not and its range. enable attribute： true：use　false：non-use min attribute：Configure the minimum number of password character number(half-width number, more than 0) max attribute：：Configure the maximum number of password character number(half-width number, less than 50) You can not input more than 51 characters.	false
	Min		0
	Max		50
allow-latin-letters	Required	Configure usable character (alphabet) required attribute：use of non-use of mixed decision true：use　false：non-use	(refer to *2)
allow-number	Required	Configure usable character (number) required attribute：use of non-use of mixed decision true：use　false：non-use	0123456789
allow-extra-char	Required	Configure usable character (other characters) required attribute：use of non-use of mixed decision true：use　false：non-use	_-.+$#!/@
deny-old-password	(non)	Configure whether a password controlled in password history administration is rejected or not. true：use　false：non-use	false
deny-userid	(non)	Configure whether a password same as userid is rejected or not true：use　false：non-use	false
password-cryption-class	(non)	Configure encryption class	(refer to *3)
return-initial-page	(non)	Configure whether you return login screen after the password change or continue login process if password is expired. true: Return to login screen false: Log in with continuing login process	false

*1：/system/security/user/password_expire.jssp

*2：ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz

*3：jp.co.intra_mart.foundation.security.cryption.StandardCryption

* Please refer to “Access Security Specification Manual” about the details of password history administration.

1.1.6 Double Login Prevention Function

You can make a double Login prevention function (invalid by default) valid or invalid in intra-mart.

If valid, the second or later session will be invalid and you can not log on. You have to ban some valid sessions in order to log on.

By configuring this function, general users or login group administrator can ban unnecessary sessions by themselves.

If double login is detected, following screen page will be displayed.

<A screen page if you make configuration that you can ban the sessions by yourself>

<A screen page if you make configuration only to notify double login>

In case of latter configuration, you can not continue the operation. In this case, you can continue with following ways.

- Continue in a valid session.
- Log out valid session and click on [Retry] button in the above-mentioned screen page.
- Wait for timeout of valid session and click on [Retry] button in the above-mentioned screen page
- Ask system administrator to make valid session invalid and click on [Retry] button in the above-mentioned screen page

1.1.6.1 Activate Double Login Prevention Function

In order to male double login prevention function valid, you have to edit following configuration file and restart intra-mart.

conf/duplicate-login.xml

Above-mentioned files are configured as follows.

- You can make configuration about each login group
- Switch on or off of double login prevention function of login group administrator
- Switch on or off of double login prevention function of General users
- Configure whether login group administrator can make a session invalid or not
- Configure whether general user can make a session invalid or not
- Configure a page path of the destination to shift when double login is detected

- Please refer to “Access Security Specification Manual” about the details of the configuration.

1.1.6.2 Invalidation of Sessions

System administrator can enhance login condition of the affiliated group administrators and ban their session. Operation is done in [Login Group Session] screen page.

< [Login group session] screen page.>

1.2 Database Settings (Multi Database)

Since intra-mart WebPlatform/AppFramework postulates the use of database, database settings must be carried out at the time of installation. All login groups must have their specific database settings as the Ver6.1 would have more than one login group.

System Database (Multi Database)	Multiple settings can be accommodated. This is the database that can be used by all login groups.
Login Group Database	Each login group may have only one setting. This is the default database of the login group.

1.2.1 Setting up the Database

Database settings can be configured in the server manager installation directory /conf/data-source.xml.

The following is an example of configuration setting.

```
Example:data-source.xml
<data-source>
        <system-data-source>
                <connect-id>system1</connect-id>
                <resource-ref-name>java:comp/env/jdbc/system1</resource-ref-name>
        </system-data-source>
        <system-data-source>
                <connect-id>system2</connect-id>
                <resource-ref-name>java:comp/env/jdbc/oracle</resource-ref-name>
        </system-data-source>
        ...
        <group-data-source>
                <login-group-id>group1</login-group-id>
                <resource-ref-name>java:comp/env/jdbc/oracle1</resource-ref-name>
        </group-data-source>
        <group-data-source>
                <login-group-id>group2</login-group-id>
                <resource-ref-name>java:comp/env/jdbc/oracle2</resource-ref-name>
        </group-data-source>
        ....
</data-source>
```

system-data-source	Sets the data source of the system database.
connect-id	Connection ID (a unique system-data-source)
group-data-source	Sets the data source of the login group database.
login-group-id	Login Group ID

- Once any database settings are changed, the Application Runtime must be restarted.

1.3 System Administrator

Settings

The system administrator will be able to manage his/her user ID and password, language (local), and other registration information at the System Administrator Settings Page.

< System administrator settings page >

User ID (indispensable)	Enter the login ID of the system administrator. The default ID is set as “system”, and can be arbitrarily changed.
Password	This is the password used by the system administrator to log on to the system. The default password is set as “manager”, and can be arbitrarily changed.
Password (confirmation)	Enter the characters which are input as [password] again.
Locale	Since intra-mart is multiple-language compatible, the system administrator can select the preferred language here. The default language is set as “Japanese”.
E-Mail Address	This is the email address of the system administrator. This address can be used on the intra-mart application to contact the system administrator.
Telephone Number	This is the telephone number of the system administrator.

1.4 Licenses

intra-mart licenses and the number are displayed.

In addition, the administrator can also import control menu, default data, and sample data for the database from this page. Since default data and sample data must be imported to the database for each login group, he/she needs to first select the name of login group from the combo box in front of [Import] button, and then click the [Import] button.

The number of licenses shown on this page is the number of licenses registered for the entire system. When there are multiple login groups, the system administrator needs to allocate the number of licenses to each login group. The allocation is done at the “Login Group License Control” Page. The responsibility of allocating license to the users within a login group is given to the login group administrator.

1.5 Login Group Settings

intra-mart Ver6.1 allows the setting of multiple login groups. The system administrator sets the required numbers of login groups and registers the login group administrators. These login group administrators will be in charge of the management of their respective login groups. These settings can be done at the [Login Group Settings] Page. When creating a new login group, click the [Register New] button. The login group ID registered here will also become a part of the group's URL.

Login Group ID :default
Login Group Administrator :http://[Machine Address]/imart/default.manager
Login Group General User :http://[Machine Address]/imart/default.portal

1.5.1 [Login Group] Tab

The administrator can register the basic data of a login group. The settings here is the default settings of the login group, but any settings by the respective login group administrator and users have priority over the default settings.

If the administrator clicked "□Zoom" button in this page, you can have an enlarged display showing items such as login group name, number of registered account licenses, and number of login group licenses.
<Login group setting page - Login group tab>

Login Group ID	This is the name of the login group.
Number of Login Group Licenses	Enter the number of licenses that is allocated to this particular login group out of the total number of licenses within the system. This option can be checked only if the system has infinite number of licenses (infinity)
Locale	Select the default language of this login group.

Number of attempts before Account Lock	When a user keys in the wrong Login ID and Password exceeding the number of times set by this parameter, the login function will be disabled for a period of time set by the “Duration of Account Lock”. If this parameter is set to “0”, Account Lock will not be imposed and users can continue to try to login.
Duration of Account Lock (Minute)	If account lock is triggered, the login function will be disabled for the duration set here (minutes). Lock”. If this parameter is set to “0”, Account Lock will not be imposed In this case, login group administrator has to unlock it in “account setting screen page” by him/herself.
Page Color Pattern	Select the color for the login group’s default page. There are 5 default color themes of “Blue”, “Green”, “Gray”, “Orange”, and “Red” available.
Main Page Pattern	Set the login group’s default page pattern. The page patterns can be added or deleted. Here, the list of page URLs to be displayed after a general user logged onto the system is shown. Users are able to select from this list a preferred page to be displayed after login.

1.5.1.1 Adding Main Page Pattern

A user can add, delete or edit the main page. By default, main page patterns of a new design of V6.0 and two design of V5.x are prepared.

< Adding and editing screen of the main page pattern>

Page Pattern ID (indispensable)	To key-in the ID of the page pattern to be displayed after login.
Page URL(indispensable)	To key-in the URL of the page to be displayed after login. If the designated URL is page-based, use the relative path from the page and add an extension (.jssp) at the end. Otherwise, designate the URL using the relative path name from the context path.
Page Image URL	To key-in the URL of the summary image of page pattern to be displayed after login. Designate the URL using the relative path name from the context path.

1.5.2 [Login Group Administrator] Tab

[Login Group Administrator] tab allows the system administrator to register the user IDs and passwords of the persons-in-charge of the login groups. Login group administrators can change all the items after logging onto the system using the registered user IDs and passwords.

<Login group setting page - Login group administrator tab>

User ID (indispensable)	Enter the login ID of the system administrator. The default ID is set as “system”, and can be arbitrarily changed.
Password	This is the password used by the system administrator to log on to the system. The default password is set as “manager”, and can be arbitrarily changed.
Password (confirmation)	Enter the characters which are input as [password] again.
Locale	Since intra-mart is multiple-language compatible, the system administrator can select the preferred language here. The default language is set as “Japanese”.
E-Mail Address	This is the email address of the system administrator. This address can be used on the intra-mart application to contact the system administrator.
Telephone Number	This is the telephone number of the system administrator.

1.6 Login Group License

The registration of intra-mart licenses is done at the time of installation. The system administrator will allocate the number of licenses to the respective login groups. The assignment is done at this [Login Group License] page. Although the same operation can also be performed at the [Login Group Settings] page when the login groups are first created, the [Login Group License] screen is more efficient especially when there are multiple numbers of login groups.

<Login group license page>

Sum of the maximum of number of System Licenses/ Maximum number of user licenses	The total number of licenses purchased for the whole system.
Number of Registered Account Licenses	The number of licenses assigned and used by each login group and its login group administrator. With reference to this number, assign an appropriate license number to the “Maximum Number of Licenses”.
Maximum Number of Licenses	Assign the licenses to each login group capped by the total number of system licenses. Once entered, click the [Register] button.

The licenses assigned to each respective login group will be reassigned to the users by the login group administrators. The latter step is done by the login group administrators at the [Login Group Control] - [Account Settings] Page, or [Login Group Control] – [Account License Settings] Page.

1.7 Control Menu Settings

The Control Menu Settings page is for configuring the menu displayed on the login group administrator page. At this page, the administrator can add, delete and/or update the folders and pages on the menu. As for the menu displayed on the regular user pages, the configuration must be done by the respective login group administrator. The system administrator does not have authorization to do so.

<A page to configure the menu for the administrator>

1.7.1 Creating New Folder

To add a new folder to the menu, click on the [New Folder] icon at the top. The newly created folder will be registered under the currently selected folder or page. The location of the folder can be changed by dragging it to other places on the tree. Please refer to the “1.7.4 Changing the Display Sequence of Folders and Pages” on relocation of the folders. Once registered, click the [Register New] button below.

<Create a new folder.>

Menu ID(Indispensable)	Enter the ID of the folder you create. The initial value is a code automatically allocated.
Displayed Name (indispensable, Locale)	When a new folder is created, its folder name must be registered to all the locales registered. First, select the locale of the folder name to be registered.
Displayed Name (indispensable, Name)	Enter the folder name that corresponds with the selected Locale. The character string entered here will be displayed on the menu. In addition, when multiple languages are registered as Locale, a folder name for each registered language must be entered.
File path of icon pictures	Enter the path to attach the folder
Notes	Enter notes about the folder
Access Right Setting of login group (to make access right valid)	Access right can be configured by each login group. Check the checkbox of “Make access rights valid”. There is a list of login group in the right hand, so you select your preferred login group. If you do not check, they are displayed in the menu of all the group administrators.

1.7.2 Creating New Page

To add a new page to the menu, click on the [New Page] icon at the top. The newly created page will be registered under the currently selected folder or page. The location of the page can be changed by dragging it to other places on the tree. Please refer to the “1.7.4 Changing the Display Sequence of Folders and Pages” on relocation of the pages. Once it’s registered, click on the [Register New] button below.

< Create a new page

Page ID (Indispensable)	Enter the ID of the folder you create. The initial value is a code automatically allocated. You can change it.
Displayed Name (Indispensable, Locale)	When a new page is created, its page name must be register to all the registered Locales. First, select the Locale of the page name to be registered.
Displayed Name (Indispensable, Name)	Enter the page name that corresponds with the selected Locale. The character string entered here will be displayed on the menu. In addition, when multiple languages are registered as Locale, a page name for each registered language must be entered.

URL (Indispensable)	Enter the page URL to be actually displayed. If the selected URL is a script development model, you have to specify it with adding an extension (.jssp) as a relative path from pages/**/src. In other cases, you specify it as a relative path from context path.
Argument	If there are necessary arguments required when activating the page, click the [Add] button here to register them. The registered arguments can be updated or deleted at any time.
File path of icon pictures	Enter the path to attach the pages
Notes	Enter notes about the pages
Access Right Setting of login group (Make access right valid)	Access right can be configured by each login group. Check the checkbox of “Make access rights valid”. There is a list of login group in the right hand, so you select your preferred login group. If you do not check, they are displayed in the menu of all the group administrators.

1.7.3 Updating / Deleting Folders and Pages

To update or delete the existing folders or pages, first select the folders or pages to be deleted from the tree. The detailed information of the folders or pages will be shown on the right for the administrator to make the necessary changes. Click on the [Update] button to reflect the changes. To delete any folders or menu, select the item and click on the [Delete] button.

1.7.4 Changing Display Sequence of Folders and Pages

To change the display sequence of existing folders and pages, drag the folders and menu to the preferred location on the tree. The administrator can use the mouse over the icons to drag them.
If the destination is a page, the item dragged will be moved to just after the page. If the item is dragged to a folder, a menu will appear for the administrator to select the destination, either within or beneath the folder.

<Example in which “My Application” folder was dragged to the “Portal” folder>

1.8 IM-Administrator

The monitoring tool “IM-Administrator” is connected to the Server Manager (monitoring server) that collects the Service Platform information of intra-mart, to monitor the conditions and perform start/termination setting of each Service Platform.

<Functions and concept of IM-Administrator>

1.8.1 Starting up and Exiting IM-Administrator

IM-Administrator is an application independent from intra-mart. Server Manager is installed on a server independent of various intra-mart Services.

1 Start the IM-Administrator from the [Start] menu.

The [Login] dialog box will appear.

<[Login] dialog box>

2 Key-in the address, port, and password of the Server Manager.

IM-Administrator’s main page will appear to allow various settings.

- The default password at the time of installation is set as “intramart”. It is recommended to change the password accordingly after the first login. Please refer to the “1.8.4 Changing Password” in the following page on how to change the password.
- IM-Administrator manages the intra-mart system by connecting with the Server Manager. The Server Manager can be connected to only one intra-mart system.
- If multiple numbers of IM-Administrator is activated to have connection with the same Server Manager, only the first IM-Administrator can be connected to the Server Manager (If multiple numbers of IM-Administrator on the same machine is started and tries to connect to the same Server Manager, even the first IM-Administrator’s connection will be cut off).

- When IM-Administrator is being used, the load on the Server Manager and Service Platform will increase. Since various types of information will be transmitted to the IM-Administrator, the network traffic will also increase accordingly.

IM-Administrator can be shut down just like other Window applications.

1.8.2 Menu Description

IM-Administrator's main page displays the list and the visual images of the Service Platform of intra-mart. The administrator can select a server from the list or from the visual structure diagram, to carry out the status monitoring or change the settings.

<IM-Administrator's main page>

If you click on the tree at the left side of the screen, the detailed information will be displayed on the right side.

1.8.3 Starting up the Service Platform

First, select the target Service Platform (shown as imart1, imart2, imart3, and imart4 on the example screen), and click on the Start/Stop/Restart button.

Round-robin processing can also be done by selecting the "Round-Robin" option to Start/Stop/Restart all the Service Platforms together (imart1, imart2, imart3, and imart4 are only examples. This ID is configured using the installer when the Service Platform is installed).

- The activation/deactivation of Server Manager cannot be controlled.
- For stand-alone model intra-mart AppFramework, activation/deactivation control is not available. In addition, for the case of distributed intra-mart AppFramework, the activation/deactivation of the server that Application Runtime is executed (application server in use) cannot be controlled.

1.8.4 Changing Password

For changing the IM-Administrator's login password. The default password is set as "intramart".

<[Changing Password] dialog box>

1.8.5 Server Manager Log

Server Manager's latest 100 output logs will be displayed.

<Server Manager log readout>

1.8.6 **Round-Robin**

A list of Service Platform included in Round-Robin and the service status is displayed. However, this page will appear only for round-robin execution.

Application Runtime	
Running	The service is running.
Stopped	The service is suspended.
Other Services	
Active	The service is running.
Standby	The service is on stand-by.
Stopped	The service is suspended.

1.8.7 **Service Platform**

For observing the Service Platform's service status and changing of settings (the image displayed below shows imart1), please refer to the "1.8.11 Setting Items on the Service Platform Page" on the various setting items.

<Service Platform's status display>

1.8.8 **Performance Display**

To display the Service Platform's memory status, network connection status as well as the history. A list of each Service Platform status will be displayed during round-robin execution. Please refer to the "Performance Display" below for the items on the page.

<Performance display>

1.8.9 Http Server

The settings of the web server for Application Runtime can be configured at this page. This function can be used only for the intra-mart WebPlatform.

Session Timeout	Duration in which a session is maintained.
Maximum Number of Sessions maintained	The maximum number of sessions to be maintained. Once exceeded this number, the existing sessions will be randomly terminated.
Save the session in cookie	Session information will be saved in a browser cookie.
Add the session to URL	Session information will be added to a browser's request URL.
Reusing Session ID	Time-out session ID will be reused.

1.8.10 Service Platform Log

Logs output to Service Platform are displayed.

1.8.11 Setting Items on Service Platform Page

To display the Service Platform(corresponding to imart 1 in the screen page)'s service status and allow the modification of settings

1.8.11.1 Common Settings

These are the basic settings for the Service Platform.

Service Platform Port No.	The port to carry out communication with other Service Platforms. If Application Runtime exists on the target Service Platform, it will not be displayed.
Number of Network Connections	The number of connection that enables the communication between Service Platforms.
Number of Concurrent Threads	The number of threads concurrently processed by the Service Platform.
Automatic Restart	Automatically restart the Service Platform if it was shut down for any exceptional reasons.
Request Timeout	Timeout period setting for the network request between Service Platforms.
Server Connection's Effective Time	Server-side connection standby time for the communication between Service Platforms.
Client Connection Pool's Effective Time	Client-side connection pool holding time for the communication between Service Platforms.

1.8.11.2 **JavaVM**

This is the Java-activation settings for the Service Platforms.

Default Heap Size	The default heap size of Service Platforms.
Maximum Heap Size	Maximum heap size of Service Platforms.
JavaVM	JavaVM to activate Service Platforms.
Options	Java-activation options.

1.8.11.3 JavaVM Log

This page defines the output for the various types of system logs. The output log will vary depending on the type of services installed on the system.

Log Output	To turn-on the logging of this selected output
File Output	Output the log to a file.
Detailed Log	Output detailed log. This setting is only for error log.
Log Filename	Designate the output filename of the log file.
Format	Specify the output format of the log file.
Refresh	Allow for the initialization of log file, and designate the size to trigger re-initialization of file.
Backup	Save the log backup at the time of refresh.
Console Output	Output the log to the console of the Service Platforms. This setting is meant for use during development stages of projects.

1.8.11.4 **Application**

This chapter explains about Application Runtime configuration

Client

This page is for parameter settings on client outputs.

Automatic Continuation of Login Session	Disabling session timeout.
External Site Pop-up	Open external websites, which are registered on the intra-mart menu, in a new pop-up window.
Organization Tree	Toggle the display of the organization trees of company -organization, public group, and private group on the maintenance page and user/organization search page into the graphical organization trees. Once toggled, all the organizations will be displayed in the screen page and slow down the system response time. It is recommended not to use this mode with huge volume of data.

HTTP

This page is for the HTTP related settings.

Maximum Size of Accepted Queries	The maximum size of request data to be processed. Any data bigger than this size will not be processed.
Total Number of Access Queues	The total number of queues for the entire access system. Any request exceeding this number will not be processed.
Maximum Size of Queries Under Parallel Processing	The maximum size of request data to be concurrently processed. Any data bigger than this size will be processed in sequential manner.
Number of Sequential Processing Queues	The number of sequential processing queues. Any request more than this number will not be processed.

■SMTP

This page is for the SMTP server settings.

SMTP Server Address	Designate the SMTP server address.
SMTP Server Port	Designate the SMTP server port.

1.8.11.5 **Permanent**

This page is for the Permanent Data Service settings.

Data Root	This is the root directory where permanent data will be saved. Valid Permanent data are automatically backed up. Backed up data is saved in history directory under data root.

1.8.11.6 **Storage**

This page is for the Storage Service settings.

File Root	This is the root directory where files are saved.

1.8.11.7 **Serialization**

This page is for the Serialization Service settings.

Application Lock Period	Designate the maximum time limit to maintain the application lock of the page-based programs. If it is set at “0”, the lock flag will not be released permanently unless the lock was cancelled explicitly.

1.8.11.8 **Schedule**

This page is for the Schedule Service settings.

Batch Load Time	Schedule Service loads the batch processing information daily at a specified timing. The timing is defined in 24-hour time format. (Example: 01:00:00).
Monitoring Time	The timer setting for batch activation check. If this time is set too short, the load of the Service Platforms will increase. If it is set too long, the time-lag between the batch setting time and the actual batch program execution time will be widen. As a result, the execution may be delayed for the duration of the maximum monitoring time.

1.8.12 Performance Display

1.8.12.1 JavaVM Memory

This page shows the memory status of Service Platforms.

<Performance Display>

maximum heap	The maximum heap size
initial heap	The initial default heap size
total heap	Total heap capacity
used heap	The heap size currently in use

- For detailed information on Java heap size, please refer to technical books on Java.

1.8.12.2 **Client Request**

This page displays the number of client requests. In the case of Application Runtime, the number of requests from web browsers will be displayed, and for other Service Platforms the number of requests from Application Runtime will be displayed.

Request counter	
max threads	The number of requests that can be processed concurrently. “Number of Concurrent Threads” set at the Service Platform will be displayed.
current requests	The number of requests currently accepted.
requests queuing	The number of stand-by requests, after the concurrent processing limit has been breached.
Response time	
max	The maximum response delay time.
average	The average response time.
Extends information	
used peak	The maximum number of requests at one time and the time-stamp of the occurrence.

- The server status will be displayed on this page at regular interval. Due to the server status and observation timings, it may not be able to display the accurate server status at all times.
- Please use the information displayed here as a reference to better understand the server status, as well as an indication to carry out performance tuning.

1.8.12.3 Network Connection

This page displays the connection status of Application Runtime and other Service Platforms. The status is displayed when the Service Platform is used for Application Runtime. There will be no display in stand-alone environment.

Pool size	
capacity	The maximum number of network connection is displayed. “Number of Network Connection” setting of the Service Platform is displayed. Any connection exceeding this number will be placed into the waiting state.
pool	The number of connection pool currently maintained.
used	The number of current connections.
Extends information	
used peak	The maximum number of connections at one time and the time stamp of the occurrence.

- The server status will be displayed on this page at regular interval. Due to the server status and observation timings, it may not be able to display the accurate server status at all times.
- Please use the information displayed here as a reference to better understand the server status, as well as an indication to carry out performance tuning.

1.8.13 Server Control using Commands

Besides the functions to control intra-mart's various service platforms from the IM-Administrator page, there are also controlling functions available via connection to the server manager using command lines.

1.8.13.1 General Format of Commands

For Windows
(installation directory)/bin/SrvCom.bat [Function Code] –u [addr]:[port]/[password] [Option]

For UNIX
(installation directory)/bin/SrvCom.sh [Function Code] –u [addr]:[port]/[password] [Option]

[Function Code]	The following function codes are available. -show Display a server list -start Start the server designated under [Option] -stop Stop the server designated under [Option] -restart Restart the server designated under [Option]
[Addr]	Designate the computer address of the server manager.
[prot]	Designate the stand-by port of the server manager.
[password]	Designate the password, which is used to login into the IM-Administrator.
[Options	Designated the server ID of the required Service Platforms. For specific server -id (server ID) For all servers -all For server display (-show) Option non-selected : Display the information of all the servers -id : Display a status of specific server ■If a server specified in "-id" operates The information of the server will be displayed. Depending on the operation status of the server, each service will be displayed as "enable" or "disable". ■If a server specified in "-id" is suspended, Message, "Service-Platform not found: Server ID" , will be displayed. ■If a server specified in "-id" does not exist, Message, "Service-Platform not found: Server ID", will be displayed. ■Any Service-Platform do not operate in the system Message, "This system has no Service-Platform.", will be displayed.

1.8.13.2 Execution Examples

This section gives an actual example on the usage of command to stop a specific server. Suppose the following system environment is in use.

```
The IP address of the machine installed with Server Manager        : 192.168.0.1
The port of the machine installed with Server Manager              : 8080
The password of intra-mart Administrator                           : intramart
The server ID of t Service Platform to undergo command processing  : 192.168.0.2:ServicePort
The intra-mart Administrator installation path                     : <%im_path%>
```

1 **Bring out the command prompt. Change the directory to <%im_path%>/bin. Execute the following commands (there are command examples for both Window and UNIX).**

```
For Windows
    srvcom.bat –stop –u 192.168.0.1:8080/intramart –id 192.168.0.2:ServicePort
For UNIX
    srvcom.sh –stop –u 192.168.0.1:8080/intramart –id 192.168.0.2:ServicePort
```

- IM-Administrator must be installed in order to control the server using commands.
- Under the intra-mart AppFramework, server control using command for the Application Runtime cannot be carried out.
- For clustered installation environment, if both “-restart” and “-all” options were specified to restart the whole system Service Platforms, the system may not be properly restarted due to the difference in stop/start timing of each individual server. To restart the entire system successfully, it is recommended to first execute the “-stop –all” option and confirm that all Service Platforms have been terminated, and then restart using “-start –all” option.

1.9 The Round-Robin Function

Round-robin function enables the distribution of client access loads to the multiple registered Application Runtimes set up separately, so as to enable load sharing and minimize failures.

This function is available with the intra-mart WebPlatform(Resin); it cannot be used on the intra-mart WebPlatform(JBoss) or intra-mart AppFramework.

intra-mart achieves this function by setting up a Web Server Connector (connector module) that connects web servers and intra-mart products.

- When using intra-mart HTTP server that comes with the application server, off-the-shelf cluster products are required to achieve load sharing.
- With multiple numbers of Application Runtime set up, HttpSession (login session) can have fail-over.
- Please refer to the Set-up Guide “3.1 Web Server Connector” for the further setting details.
- Please refer to the Set-up Guide “How to Set Up HttpSession Fault Tolerance” for more details.

1.10 HttpSession Fail-Over

With multiple Application Runtime being set up, HttpSession (login session) can have fail-over capability. This function is available with WebPlatform(Resin) only; it cannot be used on intra-mart WebPlatform(JBoss) and intra-mart AppFramework. The following shows that 2 methods of session fail-over can be achieved in WebPlatform(Resin).

- Please refer to the Set-up Guide “How to Set Up HttpSession Fault Tolerance” for further details.

1.10.1 Memory-to-Memory method

Advantages	This method can be build with only Application Runtime settings. Compared to Memory-to-RDB method, there is less processing load.
Disadvantages	If both units involved in the backing up function shut down, the session will be terminated. Compared to the Memory-to-RDB method, the settings are relatively more complicated. This stores the memory of the other Application Runtime. This causes that the memory usage of each Application Runtime also increases.

1.10.2 Memory-to-RDB method

Advantages	Even if multiple stations of Application Runtime are out of service, the session can be maintained as long as at least one Application Runtime station is running. It is much easier to set up as compared to Memory-to-Memory method.
Disadvantages	DB is required.

If round-robin architecture is to be run using off-the-shelf cluster product, the Memory-to-RDB method is recommended. Memory-to-RDB is also preferred for setting up a more robust system.

1.11 Usage with LDAP

intra-mart is also compatible with LDAP (Lightweight Directory Access Protocol), a standard access protocol for directory services. intra-mart connects with the intra-mart standard authentication system as well as others like the LDAP servers using an authentication module to carry out authentication. The system can also be made compatible with other authentication systems by configuring the authentication module.

<Interaction with LDAP via authentication module>

1.11.1 LDAP Usage Settings

LDAP Usage settings can be configured using the following configuration files. It cannot be done directly on the pages.

```
%Server Manager%/conf/access-security.xml
```

The configuration will be done within the security-config/user-security/auto-certification and certification tags.

```
<certification-class>jp.co.intra_mart.foundation.security.certification.LDAPUserCertification</certification-class>
<init-param>
    <param-name>Login Group ID.provider-url</param-name>
    <param-value>Provider URL</param-value>
</init-param>
<init-param>
    <param-name>Login Group ID.dn</param-name>
    <param-value>Identification Data</param-value>
</init-param>
<init-param>
    <param-name>Login Group ID.context-factory</param-name>
    <param-value>Context Factory</param-value>
</init-param>
```

There are 3 parameters to be specified for each login group unit.

LoginGroup ID .provider-url	Designate the provider URL. (Example：ldap://localhost:389/)
LoginGroupID .dn	Configure the identification data. For authentication purpose, the user ID will be replaced by the '?' symbols.
LoginGroup ID .context-factory	Configure the context factory. (Example：com.sun.jndi.ldap.LdapCtxFactory)

- Restart the server after the settings, the system will carry out authentication at the LDAP server set by the parameters.

1.11.2 LDAP Authentification Function

1.11.2.1 Usage with Other Authentication System

If you use this system together with other authentication system, you have to create authentication modules in which authentication module interface is implemented and define it as configuration file.

Definition of authentication module interface
jp.co.intra_mart.foundadion.security.certification.UserCertification

Initialization Method	public void init(Map params) ;
Initialize the user login authentication module. This is called only once when the class is created. Parameter Map of the parameter defined in params setting files.	
Authentication Method	public int certification(LoginInfo loginInfo, Account user, HttpServletRequest request, HttpServletResponse response);
Authenticate a user. This is called when user is being authenticated. Parameter loginInfo Information for login authentication (user, password and login group) user Account information of login users request HTTP servlet request response HTTP servlet response Returned Value: Returns the authentication result. This returns one of the following constant number. Authentication Completed SecurityConstraint.CR_OK Authentication Failure SecurityConstraint.CR_NG Authentication Process Error SecurityConstraint.CR_ERROR	

1.11.2.2 Implementation Sample

1 Implement authentication module.

```
package test;
・・・・・
class TestCertification implements UserCertification {
	public void init(Map params){
		// describe initialization process.
		// this method is called only once when this class is created
		// process initialization parameters of the arguments
	}

	public int certification(LoginInfo loginInfo,
		Account user,
		HttpServletRequest request,
		HttpServletResponse response){
		// Make authentication process with connecting to other system based on the information give
n to the argument.
		// return result of authentication.
		return SecurityConstraint.CR_OK;
	}
};
```

2 Deploy implemented authentication module.

Compile implemented authentication module and deploy it in the following place.

```
ApplicationRuntimeのdoc/imart/WEB-INF/classes
```

3 Describe configuration file.

Define authentication module as the following configuration file.

```
Describe in <access-security>/<security-config>/<user-security> tag
under ServerManagerのconf/access-security.xml
```

```
<auto-certification>
	<certification-class>test.TestCertification</certification-class>
		<init-param>
			<param-name>name of initialization parameter</param-name>
				<param-value>value of initialization parameter</param-value>
		</init-param>
	</auto-certification>
<certification>
	<certification-class>test.TestCertification</certification-class>
		<init-param>
			<param-name> name of initialization parameter</param-name>
			<param-value> value of initialization parameter</param-value>
		</init-param>
</certification>
```

- Configure <auto-certification> tag as an implementation class of user login authentication interface to make authentication from the request before login page.
- This tag can be skipped. In this case, you can not log in automatically (login without displaying login screen).
- Configure <certification> tag as an implementation class of user login authentication interface to make authentication from the request from login page.
- <init-param> can be configured multiply. This tag can be skipped.
- Set value of this tag is given as an argument of init function at the class initialization.

4 Restart the system.

1.12 Confinguration Files, Initialization Files

intra-mart WebPlatform/AppFramework includes configuration file "conf/imart.xml" and initialization file, "pages/src/init.js", which runs only once at the startup. Detailed information required to operate intra-mart and items which users can change are described in the configuration file.

- You have to restart related server when you change configuration file or initialization file.
- You can also change configuration files from IM-Administrator. (Please refer to "**Error! Cannot file reference source.**")

1.12.1 Configuration file, "conf/imart.xml"

conf/imart.xml, a configuration file, is located in ServerManager and each ServicePlatform and includes setting descriptions for the entire system. In order to change the configuration, you have to modify the files directly according to the format or alternatively use the IM-Administrator. If the settings are changed, the affected ServerManager and ServicePlatform must be restarted.

- Please refer to the "Set-up Guide (Service)" for the details on each setting item.

1.12.1.1 Configuration Files for User Definition "∗.ini"

You can use configuration files for user definition in script development model.

Please create this file as follows.

- Extension is ".ini".
- Storage this under pages/src of Resource Service.
- Format is "item name = value".
  - One item is input in one line.
  - Part after "#" is a comment for the end of the line.
  - Item name is case-sensitive strictly.
  - Do not enclose the value by double or single quotation mark.
  - Configure character code of configuration file as the same character code which is configured at the installation of intra-mart or convert it by internationalization tool of Java, "native2ascii".

Use a function container API "System.read()" in order to read configuration file of user definition.

Use function container API "System.getValue()" in order to obtain setting information. Please refer to API list for details.

1.12.2 Initialization File "pages/src/init.js"

pages/src/init.js, an initialization file installed in Resource Service runs once only at the startup of intramart. You describe each configuration required for initialization of application and the ways to read and define common functions in this init.js file.

- Initialization file is defined in system-install/initializer/application/script-name tag in "conf/sytem-install.xml" of ServerManager.

1.13 Log Output Function

intra-mart comes with various types of log output functions. The information output by this function can be used to find the cause of problems and failures occurring during operation of the intra-mart application. The output destination of each server's log is given in the "conf/imart.xml" file in the directory where intra-mart is installed (It can also be configured using IM-Administrator).

There are many other configuration items available enabling the administrators to make full use of the various log functions. Please refer to the set-up guide for further details.

1.13.1 Log Available in Standard

Followings are kinds of intra-mar log,

```
System Log
Error Log
Network Log
Memory Log
Database Log
Request Log
Security Log
Page shift Log
SAP Coordination Log
Batch Log
```

1.13.2 Access Log of intra-mart HttpServer

If you use intra-mart HttpServer included in Application Runtime of intra-mart WebPlatform(Resin), following log can be used.

```
HTTP Access Log
```

1.13.3 Utilizing Log in Using Other Application Server

In case of environment in which ApplicationRuntime of intra-mart AppFramework operates, in other words, in case of using Application Server created by other companies such as WebSphere or WebLogic Server, following log can be used. The logs of the software can be effective tools to analyze the servers' status or find out the reasons at the error by analyzing them together with the logs of standard intra-mart server.

```
Standard Output Log
Standard Error Output Log
```

1.13.4 Utilizing Log in JavaEE Development Model

You can record a message toward system log and error log of intra-mart from applications which runs in ApplicationRuntime by using following API.

```
jp.co.intra_mart.foundation.service.provider.Platform.out
jp.co.intra_mart.foundation.service.provider.Platform.err
```

You can implement your own log by using the following package.

```
jp.co.intra_mart.common.aid.jdk.util.report
```

- Please refer to “Setup Guide (Service)” about the way to configure and detailed explanation about the functions.
- If you would like to output a log by the application developed by yourself, please use File object (script development model). (Please refer to API list for details).
- Please use java.io and java.util.logging package in JavaEE development model.

1.14 File Operations

This is a utility application to manage files and directories under the %StorageServiceRoot%/storage/ path. It can create new directories and files, delete or upload the existing files, rename the files, or edit texts. Uploaded files will be saved in the Storage Service.

<File operations page>

1.14.1 Selecting Directory from the Tree

The following operations are available when a directory is selected.

Create New [Directory]	Create a new directory under the selected directory.
Create New [File]	Create a new file under the selected directory.
Change Name	Change the name of the selected directory.
Delete	Delete the selected directory.
[Upload File] Button	Upload any files under the selected directory. The format can be either text or binary.

1.14.2 Selecting File from the Tree

The following operations are available when a file is selected.

Change Name	Change the name of the selected file.
Delete	Delete the selected file.
Download	Download the selected file either in text or binary format.

1.15 Database Operation

This is a simple tool allowing execution of SQL statements directly onto the database. After selecting the system database or login group database as destination, the administrator keys in the SQL statements in the text area, and then click on the [Run] button.

< Database operation page >

intra-mart WebPlatform/
AppFramework

Chapter 2 Login Group Administrators

2.1 Responsibilities of Login Group Administrator and Login process

Login Group Administrator has various authorizations on the login group assigned by the System Administrator.

2.1.1 Responsibilities of Login Group Administrator

System Administrator is responsible to manage the common settings such as database setting of intra-mart, as well as the following management responsibilities related to Login Groups and their Administrators.

Login Group Administration	Managing the role, account, account license, menu, calendar, and batch, etc. of each login group.
Application Coomon Master Control	Manage the resources commonly used by intra-mart applications operating on login groups. The resources can be grouped according to organization, position, or public group, etc.
Portal	Configures portal-related settings, such as registering portlets and creating common portal screen for login groups.
Workflow	Configures workflow-related settings, such as creating the approval channels.

2.1.2 Login Group Administrator Login Process

Login Group Administrator logs onto the intra-mart according to the following procedure.

1 **Launch a browser and enter the URL of intra-mart shown as below.**

The login screen of intra-mart will be displayed in the screen page.

intra-mart WebPlatform(standalone):http://machine address:8080/imart/(login Group ID).manager
intra-mart WebPlatform(distributed system):URL matched to the registered information of web server connector
intra-mart AppFramework:URL matched to the information of intra-mart registered with the web application server

- If intra-mart WebPlatform is operated in stand-alone mode, the port number of URL (port number for the web server) can be specified at the time of installation.
- It is recommended to bookmark the URL for future reference.
- The administrators can also “Auto Authentification without using Login Screen” (refer to P.62 Column).

2 Enter the User Name and Password on the Login screen, then click the [Login] button.

< Login screen of intra-mart >

- The source code of the default login screen for Login Group Administrator
%Resource Service%/pages/platform/src/system/security/common folder
- The source code of the default page for Login Group Administrator
%Resource Service%/pages/platform/src/system/security/group folder
- The setting of the login screen and default page for Login Group Administrator can be configured within:
the “security-config/group-super-user-security/page-provider” tag in the
“%Server Manager%/conf/access-security.xml” file.
- The source code of the default login screen for general users
%Resource Service%/pages/platform/src/system/security/common folder
- The source code of the default page for general users
%Resource Service%/pages/platform/src/system/security/user folder
- The setting of the login screen and default page for general users can be configured within:
the security-config/user-security/page-provider” tag in the
“%Server Manager%/conf/access-security.xml” file.

<Default page of intra-mart>

2.1.3 Home Page

Home page is the default screen first displayed when logging onto intra-mart. If the user have selected other menus and have other screens displayed, click on the [HOME] button in the upper left corner of the screen to go back to the Home page.

2.1.4 Log-out from intra-mart

Users log out from intra-mart and end the program by returning to the login screen. In order to go back to the login screen, click on the [LOGOUT] button located on top of the left menu of the screen.

- If the user closes the browser or leaves the intra-mart pages without clicking on the [LOGOUT] button, the intra-mart server will consider the user status as “log-in” until the session has timed out. Please do not forget to click on the [LOGOUT] button.

Column

Auto Authentication without using the login screen

The user code and password can be included in the login URL of intra-mart as shown below.

http://intramart/imart/(logingroupID).manager?im_user=xxxx&im_password=yyyy

xxxx：User Code　　yyyy：Password

This way, the administrator can auto authenticate within going through the login screen.

2.1.5 Double Login Prevention Function

intra-mart has double login prevention function (invalid by default) and you can switch the function on and off.

If this function is valid, the second and later session will become invalid and login can not be made. In this case, you have to make some valid sessions invalid in order to log in.

General users and login group administrator can make unnecessary sessions invalid by this function.

If double login is detected, following page will be displayed.

<Screen page when you can make some sessions invalid by yourself>

<Screen page only to notify double login>

In case of latter configuration, you can not continue the operation. In this case, you can continue with following ways.

- Continue in a valid session.
- Log out valid session and click on [Retry] button in the above-mentioned screen page.
- Wait for timeout of valid session and click on [Retry] button in the above-mentioned screen page
- Ask system administrator to make valid session invalid and click on [Retry] button in the above-mentioned screen page

2.1.5.1 Invalidation of Session

Login group administrator can enhance the login status of affiliated general users and make the sessions invalid. Operation is done in [Login Group Administration]-[Account Administration]-[Login Session]screen page.

1 Click on the [Login Group Administration]-[Account Administration]-[Login Session].

[Log in Session User Search]page will be displayed.

<[Login Group Session] page>

2 Enter the user ID in user ID space and click on the [search] icon or click on the [search] icon with keeping the space vacant.

A list of session of users who are logging int is displayed.

<[Login Group Session] page>

3 Check the session to be made invalid and click on the [Invalidate] icon.

Selected session wll become invalid.

Column

Page transition without using the menu

Although this chapter describes the method in which standard access security function and menu screen of intra-mart are used, it is also possible to access the pages without registering at the menus with the URL shown below under the im-JavaEE Framework (here is the example to go with the standard installation).

http://<host name>[:< port number>]/imart/< application ID>-<service ID>.service

However, when the URL is directly specified for page displays, the following filter mapping settings (<filter-mapping>) must be deleted at the “doc/imart/WEB-INF/web.xml” of all Application Runtimes. (In the case of intra-mart AppFramework, redeployment is required after editing this configuration file)

・RequestCharacterEncodingFilter
・ResponseCharacterEncodingSettingFilter
・ResponseCharacterEncodingManagementFilter
・URLAccessFilter
・SessionFilter

Column

Changing the page color pattern

Page colors can be changed in intra-mart. There are 5 standard colors available and their configuration files are at the following locations. Color pages are easily changed by CSS. In terms of page creation, following documents are prepared.

・Page Design Guideline
・Stylesheet Specification Manual
・Access Security Specification

API according to “Page Design Guideline” is also prepared. ＡＰＩ specification is included in the document of “Page Design Guideline”.

Color Pattern Code	Display Name	CSSpath	Image Path
blue	Blue Tone	/skin/blue/blue.css /skin/blue/color.css /skin/blue/skin.css	/skin/blue
gray	Gray Tone	/skin/gray/gray.css /skin/gray/color.css /skin/gray/skin.css	/skin/gray
green	Green Tone	/skin/green/green.css /skin/green/color.css /skin/green/skin.css	/skin/green
orange	Orange Tone	/skin/orange/orange.css /skin/orange/color.css /skin/orange/skin.css	/skin/orange
red	Red Tone	/skin/red/red.css /skin/red/color.css /skin/red/skin.css	/skin/red

2.2 Login Group Settings

By the stage a login group was created by the System Administrator, the default Locale and encoding settings have been set. However, Login Group Administrators can change the settings for each Login Group accordingly using the [Login Group Settings] page. In addition, this page also allows for changing of the user IDs and passwords of the Login Group Administrators.

2.2.1 [Login Group] Tab

Here, the basic data of a login group are registered. Although the settings here will be considered as the default settings of the login group, any further settings by the users will take preference over the default settings.

< Login group setting page - Login group tab >

Login Group ID	This is the name of the login group.
Locale	Select the default language of this login group.
Number of attempts before Account Lock	When a user keys in the wrong Login ID and Password exceeding the number of times set by this parameter, the login function will be disabled for a period of time set by the “Duration of Account Lock”. If this parameter is set to “0”, Account Lock will not be imposed and users can continue to try to login.
Duration of Account Lock (Minute)	If account lock is triggered, the login function will be disabled for the duration set here (minutes). Lock”. If this parameter is set to “0”, Account Lock will not be imposed In this case, login group administrator has to unlock it in “account setting screen page” by him/herself.
Page Color Pattern	Select the color for the login group’s default page. There are 5 default color themes of “Blue”, “Green”, “Gray”, “Orange”, and “Red” available.

Main Page Pattern	Select the default main page pattern of this account. You can add or delete the page pattern. A list of page URLs that can be displayed after a general user logged onto the system is listed here. Users can select their preferred main page pattern from this list.

2.2.1.1 Adding Main Page Pattern

A user can add, delete or edit the main page. By default, main page patterns of a new design of V6.0 and two design of V5.x are prepared.

< Adding and editing screen of main page pattern>

Page Pattern ID (indispensable)	To key-in the ID of the page pattern to be displayed after login.
Page URL(indispensable)	To key-in the URL of the page to be displayed after login. If the designated URL is page-based, use the relative path from the page and add an extension (.jssp) at the end. Otherwise, designate the URL using the relative path name from the context path.
Page Image URL	To key-in the URL of the summary image of page pattern to be displayed after login. Designate the URL using the relative path name from the context path.

2.2.2 [Login Group Administrator] Tab

[Login Group Administrator] tab allows the system administrator to register the user IDs and passwords of the persons-in-charge of the login groups. Login group administrators can change all the details after logging onto the system using the registered user IDs and passwords.

<Login group setting page - Login group administrator tab>

User ID (indispensable)	Enter the login ID of the system administrator. The default ID is set as “system”, and can be arbitrarily changed.
Password	This is the password used by the system administrator to log on to the system. The default password is set as “manager”, and can be arbitrarily changed.
Password (confirmation)	Enter the characters which are input as [password] again.
User Locale	Since intra-mart is multiple-language compatible, the system administrator can select the preferred language here. The default language is set as “Japanese”.
E-Mail Address	This is the email address of the system administrator. This address can be used on the intra-mart application to contact the system administrator.
Telephone Number	This is the telephone number of the system administrator.

2.3 Account License Settings

Account licenses allocated to each login group must be further distributed to the users by the Login Group Administrators. Although account license settings can be done at the account setting page during the registration of the user, it is much more efficient to distribute the account licenses to all the registered users at [Login Group Administration] - [Account Administration] [Account License Setting] page.

There are 2 ways to configure the setting on this page; one is to search for a specific account, and the other is by displaying all the accounts with conditions such as “display all”, “display the ones with license” and “display the ones without licenses”. In addition, you can sort the accounts by combination these in various ways.

2.3.1 Search and Configure a Specific Account

1 Enter the account in the User ID column, and click [Search] button.

The User ID is searched by partial matching.

- You can search the accounts with combination the conditions such as “display all”, “display the ones with license” and “display the ones without licenses”.

2 To assign license to a displayed user, check on [License] and click on the [Register] button.

2.3.2 Configure All Account

When you display the accounts in a lump sum, you can configure the conditions such as “all accounts”, “with license” or “without license”.

1 Select “all accounts”, “with license” or “without license” and click on the “search” icon.

Please keep the user ID space blank

2 To assign a license to a displayed user, check [License] and click the [Register] button.

If the list has multiple numbers of pages, click on the icons such as <<, <, >, and >> to move to the first page, previous page, next page, and last page respectively.

2.4 Setting Application Role

As well as account license, you have to assign application role, of which application was purchased to start using, to the account (users) of intra-mart. Application role can be configured by each account in [account setting] menu. But you can efficiently configure it in [login group administration] – [account administration] – [application role configuration].

There are 2 ways to configure the setting on this page; one is to search for a specific account, and the other is by displaying all the accounts with conditions such as “display all”, “display the ones with license” and “display the ones without licenses”. In addition, you can sort the accounts by combination these in various ways.

- If you do not install an application of which application role should be configured, a message, “there is no application role” will be displayed.

2.4.1 Search and Configure a Specific Account

1 **After you select preferred application, enter the account in ID space, select the way to display and click on the “search” button.**

User ID is searched as match partial.

- You can search the accounts with combining the conditions such as “display all”, “display the ones with license” and “display the ones without licenses”.

2 **If you assign application role with the displayed users, check them and click on the [register] button.**

Main Screen For Group Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://172.16.0.14:8081/imart/system(2f)security(2f)group(2f)main.jssps?im_mark=k-2g1n2i*-1p2z8i
Go Links SnagIt
HOME LOGOUT MENU ON/OFF
master
intra-mart
Login Group Settings
Login Group Setting
Role Setting
Account management
Account setup
Account license set
Application roll setu
The account list cla
Login Session
Menu management
Calendar Setting
Batch Setting
Access Controller Set
Access security infor
Application Master Set
Portal Settings
ViewCreator
TableMaintenance
Event Navigator
The list of application roles.
go back refresh
selected application name : [[[[[[[[[[[[[[[[
search by condition (user ID) : aoyagi
search by condition : Role exist
application role count
5 / 5
Ascending Order Descending Order
1-1/1 Displaying
User
aoyagi
Ascending Order Descending Order
1-1/1 Displaying
register

2.4.2 Configure All Account

When you display the accounts in a lump sum, you can configure the conditions such as “all accounts”, “with license” or “without license”.

1 Select “all accounts”, “with license” or “without license” and click on the “search” icon.

Please keep the user ID space blank.

2 To assign a license to a displayed user, check [License] and click the [Register] button.

If the list has multiple numbers of pages, click on the icons such as <<, <, >, and >> to move to the first page, previous page, next page, and last page respectively.

- In the space of application role number, total number of application and assigned application are displayed.

2.5 Access Security Control

This section describes the concept and setting method of intra-mart access security. All the accesses to folders/pages in intra-mart are controlled from each system setting page. That means all access rights can be controlled freely without the needs to change the existing programs.

2.5.1 intra-mart's Concept to Access Security

intra-mart's Access Security configures the access rights of the users, as well as the folders/pages. Once logged onto the system, the user's access rights will be checked against that of the folders/pages, so that only the folders/pages to which the user can access will be displayed in the screen page.

Here are the access rights levels used on intra-mart.

"Role"
"Organization"
"Position"
"Public Group"

For example, it is possible to configure a page, so that only the department directors (position) of a specific department (organization) or someone with a specific role can have access to the page.

<intra-mart's access security>

- On setting the access rights of the users, in the case of "role" the setting is done by registering the user with the "Account Setting" Page, but for the rest of the access levels (organization, position, public group) the setting is not done at the user end, e.g. registering the user at the organization.
- The procedure for setting of the "role" access rights is explained in this section. As for "organization", "position", and "public group" access rights, please refer to "2.8. Application Common Master" in this book.
- Please refer to "Access Security Specification Document" about the details of access security.

2.5.2 **Role Setting**

"Role" is one of intra-mart's access right mechanisms. By configuring the user and folder/page settings with the role created with [Role Setting] page, access security will properly function. Roles are configured by the [Role Setting] under [Login Group Control] page. Users can create roles freely and the access rights are all equal in level. However, nesting structure will create differences in security level between the roles.

<Role setting page>

Category (Left Column)	Registered categories can be selected here. Once selected, only the roles of the selected category will be displayed. The categories can be registered from the setting page of each role.
Role Name (Left Column)	Only the roles names that matches the character string entered here (partial match) are displayed.
(Role List)	A list of existing registered roles will be displayed. It is possible to filter the display by specific categories or role names. Click on any of the displayed role name and the detailed information will be displayed on the right-hand side column, the details of the role can be updated.
Role ID	A role's identifier used within the system. There is usually no need to change this.
Role ID (Indispensable) (Right Column)	Key-in the Role Name.
Category (Right Column)	Enter the category name to classify the role. If a category name is registered here, the roles can be specifically searched using this category name.
Display Name (Indispensable)	A name used by applications to display the role. If the system is in multiple-language mode, use the combo box to toggle between the different languages and enter the name for all registered languages.
Sub-Role	This function allows keying in/selection of roles to be nested inside the role currently being registered/displayed. By clicking on the [Add] button, the window shown below will be displayed for the selection of registered roles.

Please refer to the column below “Role and Sub-Role” for detailed information on sub-roles.

Notes

Enter notes/comments on roles.

- Please refer to “**Error! Cannot file reference source.**” about the operation of [data import] and [data export].

Column

Role and Sub-Role

Roles can now have nested structure.

For example, if the “Administrator” role is configured to include roles such as “Guest” and “User” (as shown in the diagram below), a person with the “Administrator” role will be able to view the pages with “Guest” role as well as those with “User” role.

2.5.3 User Registration (Account Data & Profile Data)

"Account" information and user's "Profile" information can be registered in the [Account Settings] under the [Login Group Control]. "Account" information is the information related to the login and access security to intra-mart. The users' "Profile" information is the personal information of the users, such as their addresses, telephone numbers, and email addresses, and is used in the intra-mart applications. Normal users have these 2 types of information simultaneously, while "guest" users have only "Account" information but not "Profile" information, as they are not specific individuals.

All "Account" information and "Profile" information of the registered users will be stored in the databases.

<Account Setting Page>

2.5.3.1 New User Registration

A new user can be registered by the following procedure.

1 Select [Add] from the menu shown in [User].

2 Key in the “User Code” in the [Main] tab.

3 Click on the [Account] tab and key-in the information required at [Login Settings] tab.

Password/Confirmation Password	Enter the password for login.
Mobile Password / Confirmation Mobile Password	Enter the password for login using mobile.
License	This box is checked if the licenses assigned to the login group are further allocated to this user. If a user is not allocated a license, the user cannot login to the system. Use the [Account License Setting] under the [Login Group Control] to assign the licenses to all the accounts at the same time.
Effective Period	Account effective period. For a user to be able to login with this account, the account must be within its effective period and licenses allocation is checked. Please refer to the column, “handling of the end date of effective period (p.78)”.
Descriptions	Enter the description of the account.

4 Click on the [Environment Settings] tab to key-in the information.

Locale	Select the default language of this account. The setting by the users at the [User Setting] [Locale Setting] Page will be given priority over this setting.
Out-of-Office Flag	This flag is to indicate the user is out of office, check on this box will set the default status of the user to be out-of-office. However, the setting in the [User Settings] [Out-of-Office Setting] by the users will be given priority over this setting.
Number of Login Failure	The number of login failure for this account at this instance. This indicates that the user has not succeeded in logging into this account. If the user has succeeded in logging into this account, the number will be reset to “0”.
Account Lock	If this button was checked, the account will be locked and cannot be logged in.

Column

Handling of the end date of effective period

Effective periods are prepared about various information setting items in intra-mart. As effective duration, you configure “start date” and “end date”. This system storages them in the database as “end date configured by user + 1”.

Start date(1/1) <= Effective duration configured by a user <= End date (3/31)

Start date(1/1) <= Effective period on the system < End date(4/1)

When displaying the effective period in each maintenance page, it is shown as “end date configured in the system - 1”.

5 Click on the [Authorization Settings] tab and key-in the information.

Role

Select and enter the role assigned on this account. Both start data and end date of the role must also be entered. Click the [Add] button to display the following window, where registered roles can be selected. In this window, you can display the codes of each window.

Application Role

Select and key-in applications to authorize the use of the applications (intranet pack, etc.) installed for the user of this account. Click the [Add] button to display the following window, where applications can be selected.

6 Click on the [Page Settings] tab and key-in the information.

Page Color Pattern	Select the default screen color pattern of this account. 5 default color patterns of “Blue”, “Green”, “Gray”, “Orange” and “Red” are already registered. However, the setting under the [User Settings] [Color Pattern Settings] by the users will be given priority over this setting.
Main Page Pattern	Select the default main page pattern of this account. The page pattern registered in the [Login Group Settings] under the [Login Group Control] will be displayed here. The setting under the [User Settings] [Main Page Pattern Setting] by the users will be given priority over this setting. A list of page URLs that can be displayed after a general user logged onto the system is listed here. Users can select their preferred main page pattern from this list.

7 Click on the [Profile] tab and enter the effective period of the profile information.

[Add] Button	As default, the maximum effective date for the system from the date of the setting is shown. Once the end date is modified, key-in the subsequent time period.
[Change] Button	Change the time period selected on the list.
[Delete] Button	Delete the time period selected on the list.
Magnify	Magnify the display of time period list.
(Period list)	If multiple time periods have been registered, the profile of the selected time period will be displayed below.

Column

Setting of the Time Periods

Please pay attention to the following points when setting the time periods.
If multiple numbers of time periods are registered, they cannot overlap each other.
For example, the following time periods cannot be registered together.
(Example 1)
Period(1)：2000/01/01 ～ 2004/12/31
Period(2)：2002/01/01 ～ 2008/12/31

(Example 2)
Period(1)：2000/01/01 ～ 2004/12/31
Period(2)：2004/12/31 ～ 2008/12/31

The following time periods can be registered successfully.
Period(1)：2000/01/01 ～ 2004/12/31
Period(2)：2005/01/01 ～ 2006/12/31

- Please refer to the column, “Handling of the end date of effective period (p.78).

8 Please refer to the column, “Handling of the end date of effective period (p.78).

User Name (Indispensable)	Enter a user name. The user code keyed-in at the [Main] tab is displayed by default.
User Name in Kana	Enter a user name in Kana.
User Name in Kanji (Chinese Characters)	Enter a user name in Kanji (Chinese Characters).

9 Click on the [Telephone/FAX numbers] tab and key-in the information. This information needs to be entered for each time period.

Telephone Number	Enter a telephone number.
FAX Number	Enter a FAX number.
Extension Number	Enter an extension number.
Extension FAX Number	Enter an extension FAX number.
Mobile Phone Number	Enter a mobile phone number.

10 Click on the [Address] tab and key-in the information. This information needs to be entered for each time period.

Country Code	Enter a country code.
Postal Code	Enter a postal code.
Address	Enter an address. Since this is multi-language compatible, enter the address for each registered language.

11 Click on the [Internet] tab and key-in the information. This information needs to be entered for each time period.

Email Address 1, 2	Enter the email address. Up to 2 email addresses can be entered.
Mobile Mail Address	Enter a mobile mail address.
URL	Enter homepage URL.

12 Click on the [The change to Data] tab and key-in the information.

Sort Key	This item allows the keying-in of a number for sorting. The number can be anything up to 5 one-byte character.
Notes	Enter notes/comments.

13 Click on the [Assignment] tab under the Profile tab and enter the information.

A

[Calendar] Button

Select the date of affiliation

[Add affiliation] Button

Select the affiliated organization. Code of company and organization can be displayed in this window.

[Delete Affiliation] Button

Delete selected affiliation

[Affiliation period] Button

Select the period for which you are affiliated in the organization. You can configure main affiliation and position as well as the period. Affiliation period must be configured after registering the affiliation information.

2.5.4 Setting Access Rights to Folders/Pages

The role setting (access rights) to folders and pages is done in the [Menu Settings] under [Login Group Control]. Please refer to " 2.6 Menu Settings" for the details."

2.5.5 Setting Access Rights to Others (e.g. Organization, Position, and Public Group)

The allocation of access rights for "Organization" and "Public Group" will be done at the [Organization Setting] and [Public Group Setting] pages under the [Application Common Master Control], by setting the affiliated users onto the respective registration screen. As for "Position", the affiliated user's position can be set at the [Organization Setting] page. Please refer to "2.8 Application Common Master" for further details.

2.5.6 Account List by Role

This is a function to display a list of account including roles.

You can move to editorial page from the displayed account.

You configure this from [Login Group Setting] – [Account Setting] – [Account Setting by Role].

1 Select [Login Group Setting] – [Account Setting] – [Account Setting by Role].

Registered role is displayed in the list.

2 Click on the role name.

Display the account including the selected roles.

3 Click on the displayed account name.

Account editor page is displayed.　You can edit account information or profile information.

- Please refer to “2.5.3 User Registration (Account Data & Profile Data)” for details of this procedure.

2.5.7 Access Controller

Access controller is a function to make control by each block in the programs, corresponding to the access rights of login users. You have to create “access controller” and give the access rights as login group administrator authorization in advance. You can control the program by using “access control” created as follows.

<Outline of access controller>

- In case of using a tag of uncreated access controller, it is not displayed to all the users by default.
- You can display it to all the users by adding defaultShow attribute and configure it as true. If you create targeted access controller and give the authorization after that, you can control as usual.
- Please refer to “Programming Guide” for the details of access controller.

2.5.7.1 Creating Access Controller

Create ID in order to use access controller and configure access right of a part of programs.

1 Click on the [Login Group Administration]-[Access Controller Configuration].

[Access Controller Master Maintenance]screen page will be displayed.

<[Access controller master maintenance] page>

2 In order to create a new access control, click on the [New] and enter the access controller ID and access control name.

<Select a new registration and create an access control.>

Access Contoller ID (Indispensable)	Enter access controller ID to be specified in the program. By default, automatically allocated number is displayed. You can change the number.
Access Controller Name (Indispensable)	Name to be displayed in a list of access controller of configuration page.
Description	Enter a description about this access controller.

3 Select the tabs such as [Role], [Department], [Post] and [Public Group] and configure the access rights.

A program which includes the created access control ID configures the access rights to be executed.

<Register the access rights.>

[Role] Tab

To select and enter the role (i.e. related access rights) of the folder. Both start data and end date of the role must also be entered. Click the [Add] button to call out the following window, where pre-registered roles can be selected. Codes of each role can be displayed in this window.

[Department] Tab

To select and enter the role (i.e. related access rights) of the folder. Both start data and end date of the role must also be entered. Click the [Add] button to call out the following window, where pre-registered roles can be selected. The codes of company and organization can be displayed in this window.

[Post] Tab

To select and enter the position (i.e. related access rights) of the folder. Click the [Add] button to call out the following window, where positions can be selected. The codes of company and position can be displayed in this window.

[Public Group] Tab

To select and enter the public group (i.e. related access rights) of the folder. Click the [Add] button to call out the following window, where public groups can be selected. The public groups will be displayed either in a tree view or a list view. The codes of public group can be displayed in this window.

[Add]

You can add an access rights about the selected tab.

[Delete Selected Items]

You can delete an access rights about the selected tab.

[Display Code]

Display a line of code to displayed access rights.

4 After registering access rights, click on the [Register] Button.

Access controller is registered, and you can use it in the program.

<Register access controller>

[Register] Button	Register the input access controller.

2.5.8 Importing Access Security

Previously exported access security setting information can be imported on this page. Enter the file path to import and click the [Import] button.

You can import account information in the form of csv file.

<Access security import page>

2.5.9 Exporting Access Security

The setting information on access security can be exported at this page. The exported setting information can be retrieved using [Access Security Import]. Key-in the file path of the file to be exported and click on the [Export] button. You can export account information in the form of csv file.

<Access security export page>

Column

How to start intra-mart without using the login screen

①Starting up without using the Login and Menu Pages (without using the access security modules).

For details please refer to the API list on how to create original applications.

②Just on starting up without using Login screen (with access security modules)

Add the following user code and password to the login URL of intra-mart, to login without using the login screen.

http:// server address / imart/(login group ID).portal?im_user=xxxx&im_password =yyyy

xxxx：user code yyyy：password

Column

Standard Implementation of Access Security

● Preservation place in standard implementation

Preservation place of access security in intra-mart WebPlatform is as follows.

Access Security information	Preservation point	Notes
Corresponding role	Setting dile	Server manager/conf/system.xml Server manager /conf/il8n/locale_*.properties
Corresponding client	Setting dile	Server manager /conf/system.xml Server manager /conf/il8n/client_*.properties
Corresponding color pattern	Setting dile	Server manager /conf/system.xml Server manager /conf/il8n/color_*.properties
System database	Setting dile	Server manager /conf/data-source.xml
Message	Setting dile	Server manager /conf/message/*.properties
System menu	Setting dile	Server manager /conf/system-menu.xml
System administrator	Permanent Data Server	
Login group	Permanent Data Server	
Group database	Setting dile	Server manager /conf/data-source.xml
Group administrator	Permanent Data Server	
Account	Login group database	Encryption of account password
Role	Login group database	
Menu	Login group database	
Calendar	Login group database	
Batch	Login group database	

●Notes on standard implementation

Accounts belonging to login group in access security information such as role, menu, calendar and batch are saved in the database. If you update this information with using updated API, please process them in transaction.

2.6 Menu Settings

The Menu Settings page is used to configure the menu to be displayed on the users' screen. Here, the folders and pages to be displayed on the menu can be added, deleted and/or updated. By setting the access rights to folders and pages, one can also control to which users the pages are available. For the details on access security, please refer to "2.5. Access Security Control".

- There two ways of menu setting. One is to process it in the menu settings explained in the anterior half of this class. The other is [menu list by each role] to display a menu configured by each role.

< Manu settings page for general users>

2.6.1 Creating New Folder

To add a new folder onto the menu, click on the [New Folder] icon above. The newly created folder will be registered under the currently selected folder or page. The location of the folder can also be changed by dragging it to the preferred place on the tree. Please refer to the "2.6.5 Changing the Display Sequence of Folders and Pages" on the changing the location of folders. Once registered, click the [Register New] button at the bottom.

<Create a new folder>

Menu ID (Indispensable)	Enter the ID of the new folder. By default, automatically allocated code is configured.
Displayed Name (Indispensable, Locale)	When a new folder is created, its folder name must be registered to all the registered Locales. First, select the Locale of the folder name to be registered.
Displayed Name (Indispensable, Locale)	Enter the folder name applicable to the selected Locale. The character string entered here will be displayed on the menu. In addition, when multiple languages are registered as Locale, a folder name must be entered for each registered language.
Client Type	Select PC or mobile. This is to control whether the folder to be displayed is for access from PC or from a mobile phone.
Notes	Enter notes/comments on folders.
File Path of Icon Picture	Enter the path of the icons displayed in the head of menu.
[Role] Tab	To select and enter the role (i.e. related access rights) of this folder. Both start data and end date of the role must also be entered. Click the [Add] button to call out the following window, where pre-registered roles can be selected. You can display the code of each role.

[Organization] Tab

To select and enter the organization (i.e. related access rights) of this folder. Click the [Add] button to call out the following window, where registered organizations can be selected. The organizations will be displayed either in a tree view or a list view. Code of companies and organizations can be displayed in this window.

[Position] Tab

To select and enter the position (i.e. related access rights) of this folder. Click the [Add] button to call out the following window, where positions can be selected. Code of companies and position can be displayed in this window.

[Public Group] Tab

To select and enter the public group (i.e. related access rights) of this folder. Click the [Add] button to call out the following window, where public groups can be selected. The public groups will be displayed either in a tree view or a list view. Code of public group can be displayed in this window.

2.6.2 Creating New Page

In order to add a new page to the menu, click on the [New Page] icon above. The newly created page will be registered under the currently selected folder or page. The location of the page can also be changed by dragging it to the preferred place on the tree. Please refer to “2.6.5 Changing the Display Sequence of Folders and Pages” on changing the location of pages. Once registered, click the [Register New] button at the bottom of the page.

< Create a new page.>

Menu ID (Indispensable)	Enter the ID of the new page. By default, automatically allocated number code is displayed, which you can change.
Creating New Page>	When a new page is created, the page name must be registered to all the registered Locales. First, select the Locale of the page name to be registered.
Displayed Name (Indispensable, Name)	Enter the page name applicable to the selected Locale. The character string entered here will be displayed on the menu. In addition, when multiple languages are registered as Locale, a page name must be entered for each registered language.
Client Type	To select either PC or mobile. This is to control whether the page to be displayed is for access from PC or from a mobile phone.
URL (Indispensable)	Enter the URL of the page to display. The URL should be keyed-in using the relative path from pages with adding extension (.issp) if selected URL is in script development model. In case of other type, specify it as relative path from the context path.
Argument	If there are any arguments necessary for page activation, click the [Add] button here to register the arguments. The registered arguments can be updated or deleted at any time.
File Path of Picture Icon	Enter the path of icons displayed at the head of the menu.
Notes	Enter notes/comment on pages.

[Role] Tab

To select and enter the role (i.e. related access rights) of this page. Both start data and end date of the role must also be entered. Click the [Add] button to call out the following window, where pre-registered roles can be selected. You can display the code of each role.

[Organization] Tab

To select and enter the organization (i.e. related access rights) of this page. Click the [Add] button to call out the following window, where registered organizations can be selected. The organizations will be displayed either in a tree view or a list view. Code of companies and organizations can be displayed in this window.

[Position] Tab

To select and enter the position (i.e. related access rights) of this page. Click the [Add] button to call out the following window, where positions can be selected. Code of companies and position can be displayed in this window.

[Public Group] Tab

To select and enter the public group (i.e. related access rights) of this page. Click the [Add] button to call out the following window, where public groups can be selected. The public groups will be displayed either in a tree view or a list view. Code of public group can be displayed in this window.

2.6.3 Creating New Page (External URL)

To add an external URL to the menu as a new page, click on the [New Page (External URL)] icon at the top. Please refer to the “2.6.2 Creating New Page” for further operational details.

2.6.4 Updating / Deleting Folders and Pages

To update or delete the existing folders or pages, first select the desired folders or pages from the tree. The detailed information of the folders or pages will be shown on the right for any necessary changes to be made. Click on the [Update] button to reflect the changes. To delete any folders or menu, select the target and click on the [Delete] button.

2.6.5 Changing Display Sequence of Folders and Pages

To change the display sequence of existing folders and pages, drag the folders and menu to the preferred location on the tree.

If the item is dragged to a page, the dragged item will resurface right after the page. If the item is dragged to a folder, a menu will appear to allow for the selection of the dragged item’s destination, either within or under the folder.

< Example in which a folder was dragged to the other folder>

2.6.6 Setting Menu by Role

[Login Group Administration]-[Menu Configuration]-[A List of Menu by Role] is a function to display a list of each registered role. Users can move to editorial page from the list screen menu.

- This is a function to display a list of menu of each role but not a list of menu to be displayed in the user's page, which has the role.

1 Select [Login Group Administration]-[Menu Configuration]-[List of Menu by Role].

Registered roles will be listed.

2 Click on the role name.

Menu which has selected roles will be displayed.

3 Click on the displayed menu name.

Menu editorial page will be displayed, and you can edit menu authorization.

- Please refer to “2.6 Menu Settings” about this operation.

2.7 Application Registration

The following registration process is required to execute applications developed by developers (for Script Development Model the set of presentation page and function container, or for JavaEE Development Model the JSP and Servlet) from intra-mart's menu screen.

The overall application registration flow is as follows.

1 Save application

2 Register "Folder"

3 Register "Page"

4 Configure access security (role)

5 Log on again

<Application Registration Process>

- User registration and role (access right) setting must be completed before registering any application.
- Please refer to "2.5 Access Security Control" on the access security setting for the pages.

2.7.1 Folders and Pages

For intra-mart, the entire application needs to be registered to "Folder". Usual applications consist of one "Folder" and multiple "Pages" included within the folder. The respective "Pages" are either a set of presentation page (HTML file) and function container (JavaScript file) in the case of the Page-Based Development Model, or JSP (JSP file) and/or Servlet (JAVA class file) for the JavaEE Development Model. For intra-mart, the folders and pages can be placed at any level of a menu tree.

<Concept of folders and pages>

- The menu structure using Folders/Pages frame is the basic structure for the applications developed by intra-mart WebPlatform or intra-mart AppFramework. By utilizing this menu structure, access security functions become available to these applications.

2.7.2 Application Registration Operations

1 Saving applications

Save all the files related to the application at designated location.

For files of Script Development Model Save to “%Resource service%/pages/”directory
For files of JavaEE Development Model Save to “%Application Runtime%/doc/”directory

2 Registering “Folder”

Register a new folder in the [Menu Settings] under [Login Group Control]. Please refer to “2.6 Menu Settings” for the details of folder registration.

3 Registering “ Page”

Register a new page in the same manner as the new folder. Please refer to Chapter 2 “6. Menu Settings” for the details of page registration.

<Specifying the path>

- For Script Development Model

The path should be a relative path (extension is .jssp) from the folder/pages where intra-mart is installed.
For registering a self-produced Servlet or JSP to a page without using JavaEE Development Framework (im-Framework), assuming the intra-mart’s URL was http://hostname:port/imart/intramart,
① The path starts with “/”
If called up as “/hello”, the URL “http://hostname:port/hello” will be retrieved.
② The path ends with an extension
If called up as “hello.jsp”, the URL “http://hostname:port/imart/hello.jsp” will be retrieved.
③ The path includes “ ://”
If called up as “http://abc/hello.jsp”, the URL “http://abc/hello.jsp” will be retrieved.

- For registering applications created by JavaEE Framework (im-Framework) to a page.
  Add XXXX-YYYY.service to the URL
- application ID ： XXXX service ID ： YYYY
- (Please refer to the “Programming Guide: JavaEE-Based Development Model” on the parts related to XXXX and YYYY.)

4 Re-Login

After conducting “Folder” and “Page” related master maintenance, the user must re-login into the system. If the access rights of the registered folders/pages were properly set, registered application can be executed.

- Please refer to “2.5 Access Security Control” for the security setting operations on page access security.
- Please refer to “1.14 Data and Program Backup” for “Import/Export” operations.

2.8 Application Common Master Unit

Data Control for Organization/Group and User

The standard master data files used frequently for system development, such as company data, organization data, group data, vendor data, client data and product data are pre-installed by default. These master files are shared by various intra-mart application series. In addition, the table structure and APIs for accessing the files are also made public, so that they can be freely used for system development. Please refer to the separate-volume “Application Common Master Material” for details.

2.8.1 Organization Setting [Application Common Master

Configuration]-[Organization Settings]

intra-mart operates with using organizations in various cases. For example in case of access right, an organization configured here is used as the target of access right. If you create an application which operates on the intra-mart, this organization can be utilized.

After registering a company, the company’s divisions, departments, sections, and units are then registered as organizations of the company. Divisions can form the hierarchical structure.

Users can be tied to any organization hierarchy. It is also possible for a user to belong to multiple organizations simultaneously.

Staff can be registered by combining the users of which [profile] in [account setting] of [Login Group Administration] in advance.

About registering a company:

- In organization settings, multiple companies can be registered, and organizations such as departments, divisions or sections can be registered to each corresponding company.

By registering affiliated companies, cooperation companies, business partners or customer companies, you can develop the system from intra-net system to full-scale B to B system.

2.8.1.1 Time Period Control for Organization

Organizations in real business are changing as time advances. Organizations registered to intra-mart also must be changed according to the real business, but some applications bring troublesome phenomenon.
One of the examples is when you make a process on previous date in case of an application dealing with workflow for some reasons. In this case, you have changed the organization of the intramart to the present one, so you can not apply to get the approval of your superiors because the organization is different. This is also applicable to the case of the future date. If you make an application beyond the deadline of changing organization date, an inconsistency such as that there is no organization after the application might be occur. In order to correspond to above-mentioned request, you can save your history of the organization in intra-mart. The function to control the organization's history is "Time Period Control".

<Time period control of the organizations>

- Please refer to the column "Handling of the end of the expiration date (p.78)" about the effective time period.

2.8.1.2 "Department Time Period" and "Organizational Structure Time Period"

Names of companies, departments or sections change as time advances. Time period administration records this information as it is changed or updated, like "this information is in this time period" or "This information is in the next time period". In case of confirming information at the previous date or future date, you can create applications to be processed based on the information.
"Department" has individual a change history of each information. This individual change history is called generically as "Department Time Period". In fact, there is a concept as "Organizational Structure Time Period". This is a time period administration of hierarchical information of the departments.

<Two essences of time period control: difference between "organization" and "organizational structure:">

- Please refer to the column "Handling of the end of the expiration date (p.78)" about the effective time period.

2.8.1.3 Relationship between "Department Time Period" and "Organizational Structure Time Period"

"Department time period" has a close connection to "Organizational Structure Time Period". This means that time period of the department must not be inconsistent to the time of the organizational structure.

For example in case of creating the organizational structure 2 as the figure below, each department (organization A, B, C) has the same time as the organization constructor 1. If time period B is insufficient like the following figure, you can not add it to the organizational structure 2.

- Please refer to the column "Handling of the end of the expiration date (p.78)" about the effective time period

Column

Register organizations without using time period control

If you do not have to make the time period control, configure all the time period as the same date (you can configure any values). In this case, you can register them without inconsistency (in addition, it is OK to leave the end date blank.).

Only if you create (or use) an application requiring the time period control, you need to control the tem period strictly.

2.8.1.4 Organization Setting Pages

This part explains the way to register the organizational structure with using time period control. [Organization Setting] function under [Application Common Master Setting] has 2 main pages, which can be used creatively depending on purpose. However, the displayed contents are the same.

Company List

This is an initial page when selecting[Application Master Administration]-[Organizational Structure Setting]. At this page, the administrator can register or delete a company, as well as register, update or delete the Time Period of the company's organizational structure. At the beginning of the registration, you have to register the present data and end date (blank). After that, if there are any modifications, please input the end date and add a new organizational structure, which will begin the next day of the end date.

You can register the company from this page, but it is for registering the time period structure. A Company is also one of the organizations, so you have to register the attributes such as the company name in "organization list" page.

Initial Screen of [Organizational Structure] under [Application Common Master Setting]

You can register, update or delete companies and time period of organizational

Register, Copy and Delete Button

You can register or delete a company, and add, delete or copy the organizational structure.

List of organization al Structure time period

Company name and organizational structure time period will be displayed in a list.
The displayed company name is the one at that time.

Details of company and organizational structure time period

Configure the details such as registering a new company or adding or deleting the organizational structure.

Organization List

At this page, the administrator can register, update and delete the organizations and organizational structures of company selected from the company list.

After selecting the company's organizational structure in "Company List" page, click on the "Organization List".

Organizational Structure Page of Selected Company
You can edit the organizational structure such as adding or deleting a department.

Register/Delete
You can register or delete a department.

Organizational Structure Tree
Display the organizational structure hierarchically.
The department name is the one at the start date.

Details of organization
You can configure the attribute information of each department by the period or language.

2.8.1.5 Registering Company

This part explains the general procedures to register a new organizational structure.

<Flow of organization setting>

Registering a company

Register a company from a page of company list in [Application Common Master Setting]-[Organization Setting]. At this point, a company established on 15th, January, 2007 is shown as an example. At the registration, the first "organizational structure time period" is registered.

- You can not change the start date of organizational structure configured at the registration. In case of above-mentioned example, you can not change 15th, January, 2007.
- You can not additionally create a time period configutred at the registration. In case fof above-mentioned example, you can not create previous date by 15th, January, 2007.

1 Click on [Organization Setting] under [Application Common Master] to register a company.

The [Company/Organization] page will be displayed.

<Company Registration Page>

2 Click on the [New] button at the [Company/Organization] page, and select [Company] from the displayed menu.

If any companies or time periods are being selected on the left-side tree, both [Company] and [Time Period] menus will be displayed.

<Company/Organization Page>

3 Clicking on the calendar icon and key-in the initial Time Period information for the company, then click on the [Register] button with leaving the end date blank.

If you register, structure time period from the start date (2007/1/15) to the end date (blank,9999/12/31) will be displayed.

<Register the company time period>

- Except you decide the end date of the company, please configure the company time period as 31th, December, 9999. With this setting, you can confortably operate the system without integrity violation between organizational structure and department time period when changing organizational structure.
  Please refer to “Updating Organizational Structure - 1 : Creating New Organizational Structur” or “2.8.1.7 Updating Organizational Structure - 2 : Copying Organizational Structure Time Period” about the examples.

4 A company and the default Time Period information will be displayed on the tree view.

Since the company name has not been entered yet, it is displayed as “Untitled”. You can input the company’s name in the attribute setting of the organization page.

<Company is registered.>

■Registering the company’s attribute

Even if you register a company, the name of the company is shown as “Untitled” if you do no register the attribute information. A Company is also one of the organizations, so you have to register the attributes such as the company name in organization list page. Please refer to “2.8.1.9 Registering Attributes of the Department (p.123)”.

■Registering the department

After you complete registering the company and its attributes, next step is to add the functions and create the level of the organizational structure. Department registration is done in [Organization List] page.

1 **Select the time period information of the selected company and click on the [Organization List].**

[Organization List] of the selected company will be displayed.

<Select the time period information and move to [organization list].>

2 Select the upper department of the department to be selected from the tree of organizational structure in [Organization List] page and click on the [New].

Attribute setting page of the new department will be displayed.

<Register the department and create the organizational structure.>

3 Configure the attribute such as department and click on the [Register].

The time period of the department created here is same as the time period of the one of the organizational structure selected in the company list.

<Configure the attribute such as department name.>

If you click on the [register] button, the created department will be named in the left tree.

■ Registering the department's attributes

At the registration of the department, you can register the department' attribute. Please refer to “2.8.1.9 Registering Attribute of Department (p.123)”.

2.8.1.6 Updating Organizational Structure -1: Creating New

Organizational structure

If the organizational structure of real business is changed, you have to add the organizational structure period. This part explains the case of newly creating organizational structure. Please refer to “2.8.1.7 Updating Organizational Structure -2: Copying Organizational Structure Time Period” for the case of partly update of the organizational structure.

■Update of the present organizational structure time period.

Usually, the end date of the present organizational structure time period is configured as blank (31st, December, 9999). In this case, you can not register the new time period. You have to modify the present time period, one day before the date of most recent revision.

Update of the structure time period: If the organization is modified on 1st July, 2008,
Before : 2008/07/31 - blank(9999/12/31)
After : 2008/07/31 - 2008/07/31

1 Configure the end date of the organizational structure time period (31st, July, 2008) according to the date of modification of organization (1st, July, 2008).

Configure the end date as the previous date of date of most recent revision.

<Update the present organizational structure time period.>

2 Click on the[Update].

The time period information is updated in the company list.

< The time period information is updated in the company list.>

■ Registering a new organizational structure time period

Next is to create a new organizational structure time period (from 18th January, 2008).

1 Confirm that you select the company of which organizational structure time period is added, and click on the [Time period] in the [New] period.

<Add a new organizational structure time period.>

2 The new "time period" is displayed. The start date is the next day of the end date of the present time period (18th January, 2008). And the new end date is blank. Confirm the time period and click on the [Register] button.

<New time period is displayed.>

3 Newly created organizational structure time period (2008/01/18～2008/01/20) is displayed on the left side, a company list.

<New time period is displayed in the company list.>

■Register or move the department

Since a new organizational structure time period does not include any departments, you have to register the new organizational structure.

Either, the department of the previous time period is displayed in “organization which does not belong to the structure” . You can move the department and create the structure.

There are two ways to move the department. One is “ to move a department with drag and drop”. The other is “to select the master organization and move the departments” in the tree view of the organization list. Please refer to “Registering a Department (p.112)” in “2.8.1.5 Registering Company”.

≪Move the department with drag and drop≫

1 Drag the heading icon of the preferred organization in the tree view of [organization list].

You can not drag the other part than the icon of the organization.

<Move the organization with dragging>

2 Drag the organization and overlap the new organization.

They are moved as the slave organization.

<Organizations are moved>

≪Select the master organization and move the departments≫

1 **Click on the icon of the "master organization" in the [main] tab of the organization to be moved.**

If you select the master organization, dialog box will be displayed.

< Select the master organization and move the departments>

2 **Select the master organization in the displayed dialog box and click on the [OK] button.**

Dialog box is closed and the organizations are moved as the slave organization.

<Select the master organization>

■Register the department attribute

You can register the department attribute at the same time of registering the department. Please refer to "2.8.1.9 Registering Attribute of Department (p.123)" for the details.

2.8.1.7 Updating Organizational Structure -2: Copying

Organizational Structure Time PeriodCopying Organizational Structure

Time PeriodCopying Organizational Structure Time Period

If the newly modified organizational structure is similar to the present one, you might copy the present one and create the new one.

Update of the present organizational structure time period

Usually, the end date of the present organizational structure time period is configured as blank (31st, December, 9999). In this case, you can not register the new time period. You have to modify the present time period, one day before the date of most recent revision.

Update of the structure time period: If the organization is modified on 1st August, 2008,
Before : 2007/01/15－blank(9999/12/31)
After : 2008/01/16－2008/07/31

1 **Configure the end date of the organizational structure time period (31st, July, 2007) according to the date of most recent revision (1st, August, 2007).**

Configure the end date as the previous date of date of most recent revision.

<Update the present organizational structure>

2 Click on the [Update].

The time period information is updated in the company list.

< The time period information is updated in the company list.>

■ Copying the organizational structure time period

Next is to copy the present organizational structure time period and create the new one.

1 Confirm that you select the company of which organizational structure time period is added, and click on the [Copy].

The configuration window of “term” about new time period is displayed in the screen page.

< Copy the present organizational structure time period and create the new one.>

2 The configuration dialog box of the new time period is displayed. Confirm that the new start date is the next date of the end date of the previous time period (1st August, 2007) and click on the [OK] button.

Leave the end date blank.

<Configure a new organizational structure time period>

3 Newly created organizational structure time period is displayed on the left side, a company list.

The organizations are also copied.

< Newly created organizational structure time period is displayed in a company list.>

■Register or move the department

New organizational structure time period is created by coping. Since the previous department is copied, you have to change them to the latest one.

Please refer to “Registering or Moving the department” in “2.8.1.6 Updating Organizational Structure -1: Creating New Organizational structure” about the registering and moving the departments.

■Register the department attribute

You can update the department attribute information at the same time of registering the department. Please refer to “2.8.1.9 Registering Attribute of Department (p.123)” for the details.

2.8.1.8 Deleting Organizational Structure

If you delete a registered organizational structure time period, the organizational structure registered there is deleted. However, the departments belonging to the organizational structure will not be deleted.

1 **Select the organizational structure time period to be deleted and click on the [Delete] button.**

<Select the organizational structure time period to be deleted and click on the [Delete] button.>

2 **Selected time period is deleted.**

If there is a department belonging to only this organizational structure period, the department will not be deleted but moved to the folder, "isolated organization".

<Departments are not deleted but moved to the folder, "isolated organization".>

- If an organization which does not belong to any structure is moved to the organizational structure, the time period required to join in the structure is automatically complemeted and becomes avaiable in the other organizational structural time period.

2.8.1.9 Registering Property of Department

At this point, how to configure the attribute of the department (including companies) such as name or address is explained. Company is one of the organizational structures, so you can configure the property information with this operational procedure.

1 Select the department to update the property from the tree of [organization list] page and enter the details in the right side. The first is [main] tab. After the registration, move to the next tab.

<Enter the main tab>

Organization Code(Indispensable)	Display the company code when it was created.
Master Organization	This item cannot be selected at the company input page. In the case of organization, this item is for setting which organization it belongs to.
Sort key	Specify the sequence to be displayed in the company list
Notes	Enter notes/comments on companies.
Update Button	Click the [Update] button after completing all the tabs.

2 **Click on the Property tab to key-in information on Public Zone, Search Property, and Sales Channel, etc. Go to the next tab after the registration.**

< Input to the property tab >

Public Zone	Configure the public zone. Click on the [Time Period] button for each item to open the input window and key-in the Time Period.
Search Property	Define the search property in the same manner as the public zone.
Sales Channel	Input the sales channel.
[Update] Button	Click the [Update] button after completing each of the tabs.

- Please refer to the column below “Advanced Utilization of Application Common” about further details on Public Zone and Search Property.

3 **You can register the member and configure the position of the member and main belonging with using the member tab.**

Please refer to “2.8.1.10 Setting Department Belonging and Position (p.131)" for the details of the operation.

<Input the member tab.>

4 **You can register the property information such as address and telephone related to the selected department. Since this information is recorded as history, they are registered together with the term information.**

You can configure the term within the selected structure term (from 1st August 2007 in this case) at this point. You can divide the time period information multiply or integrate the allocated information.

<Input the time period information tab.>

5 **Key in the information to each Time Period Information tab. At this page, the Time Periods can be divided or integrated.**

<Update the time period information.>

[Divide] Button	Divide the selected time period into two .
[Delete] Button	Delete the selected time period. The deleted time period is filled with the anteroposterior periods.
Expand	Expand the time period display.
(Period List)	Display the profile of the selected time period below, when multiple numbers of time periods are registered.

Column

About Time Period Setting

Please pay attention to the following points when registering the time periods.
If multiple numbers of periods were to be registered, they cannot overlap each other.
For example, the following time periods cannot be registered together.

(Example 1)
Period(1) : 2000/01/01 ～ 2004/12/31
Period(2) : 2002/01/01 ～ 2008/12/31

(Example 2)
Period(1) : 2000/01/01 ～ 2004/12/31
Period(2) : 2004/12/31 ～ 2008/12/31

The following time periods can be registered successfully.
Period(1) : 2000/01/01 ～ 2004/12/31
Period(2) : 2005/01/01 ～ 2006/12/31

- Please refer to the column “Handling of the effective period (p.78)” about the effective period.

Column

Update a part of information of the department

This part explains the way to register the history of the organizational structure by adding the structure time period. When a part of the information is changed, you can save the history of the update information without adding a new organizational structure time period.

You have to make organizational structure time period of the company remain as it is, add the time period information of the department property information and record a history. You can change a part of the information such as name of the department or telephone number by registering new time period information with [Time Period Information] tab of the department property.

1 **You can divide the time period information of the department into two parts.**

2 **Change the previous end date of the time period as the next day of the new start date. The new start date is automatically changed t, also.**

3 **Select a new time period and change the propertys such as name.**

6 **Input the information of [Organization Name] tab. This information must be entered for each time period and language.**

<[Organization Name] tab of [Time Period Information]>

Organization Name(Indispensable)	Input Organization Name. The user code in the [Main] tab will be displayed by default. The organization name entered here will also be displayed on the tree view.
Organization Name (in Kana)	Enter the organization name in Kana.
Organization Name (in Kanji)	Enter the organization name in Kanji (Chinese Characters).

7 **Click on the [Telephone/FAX Number] tab to input the information. This information must be input for each time period.**

<[Telephone/FAX Number] tab of [Time Period Information]>

Telephone Number	Input the telephone number.
FAX Number	Input the FAX number.
Extension Number	Input the extension number.
Extension FAX Number	Input the extension FAX number.

8 Click on the [Address] tab and input the information. This information must be entered for each time period.

<[Address] tab of [Time Period Information]>

Country Code	Input the country code
Postal Code	Input the postal code
Address	Input an address. Since the system caters to multiple languages, select the different registered languages to key in the information.

9 Click on the [Internet] tab to key-in the information. This information must be entered for each time period.

<[internet] tab of [Time Period Information]>

Email Address 1, 2	Input the email address. Up to 2 email addresses can be registered.
URL	Key-in the website URL.

- Plug-in tab is for future extension. It is currently not in use.

2.8.1.10 Setting Department Belonging and Position

You have to register a member of the department as one of the property information. This is a function to make the member belong to the department. You can configure the position and main belonging of the member.

Register a member to his/her department

In order to register a member to his/her department, you have to register the member as the department property. You can configure the position and main belonging of the member as well as register him or her in this part.

1 Select the organizational structure time period of the company in the organizational setting page, and click on the [organization list].

Display the organization list in order to configure the staff as the member.

2 Click on the [Add] button in the [Member] tab in the department property information.

[Add Member] dialog box will be displayed.

<Add a member.>

3 Select the staff in the [Member List] dialog box, and click on the [Add].

You can select multiple staffs in a lump sum by using [Shift]or[Ctrl] key. After you select ,click on the [Close] button. The time period which can be configured in the adding member page is limited within the selected organizational structure time period.

<Select a member.>

4 Return to the property information page, and click on the[Update] button.

You can not configure the position or main belonging of the registered staff without updating once. You can delete the registered staff with [Delete] key.

- Once you add a new user to the organization, the user's belonging time period is configured as the time period corresponding to the selected organizational structure. In addition, if the belonging time period contains a time period when the user does not have main belonging, the time period is configured as the main belonging time period.

Position Setting

You can configure the position of the staff registered as a member. The position is required to be registered in [Application Common Master] – [Position Setting].

1 **After the registration of the above-mentioned staff, select the staff to change his/her position, and click on the [Time Period] button.**

[Time Period] dialog box will be displayed.

<Click on the [Time Period] button.>

2 **Select the registered position in the [Time Period List] dialog box, and click on the [Register] button.**

The position is registered in "Position Setting" in advance. You can configure the time period within the time period of the registered department. You can also configure the other position with changing the time period by clicking on the [Add] button.

<Position setting>

2.8.1.11 Deleting Department

You can delete an organization in the organization list. In case of deleting an organization, all the organization will be deleted and can not be used again. If you delete an organization which has an affiliate organization, the corresponding organization can be deleted, but the affiliate organization will be moved to “Organization which does not belong to the structure” folder. In this case, you can reuse the organization.

<Delete a department.>

2.8.1.12 Deleting Company

You can delete a company itself in the company list. You can delete all the information such as the department which belongs to the company or organizational structure.

<Delete a company.>

2.8.1.13 **Message List in Organization Setting**

If there is an inconsistency about the time period setting at the organization setting, messages are displayed. You might not register or update in this case. Followings are a table of the displayed messages, causes and measures.

Page	Event	Condition of the time period error	Message	Measures
Company list—Creating a new company	At pressing on [register] button	Start date is later than the end date.	Time series of the effective start date (yyyy/mm/dd) and the effective end date (yyyy/mm/dd) of the organizational structure time period is not correct.	Modify the start date and end date of the time period.
Company list—New—Term	At pressing on [register] button	The time periods are overlapping	Configured time periods, (yyyy/mm/dd - yyyy/mm/dd) and (yyyy/mm/dd - yyyy/mm/dd), are overlapping. Modify them not to overlap.	Modify the time period not to overlap on the other time period.
		Start date is later than the end date.	Time series of the effective start date (yyyy/mm/dd) and the effective end date (yyyy/mm/dd) of the organizational structure time period is not correct.	Modify the start date and end date of the time period.
		Added time period is not within the time period of the organizational structure.	The time period of the organization is not correct. Organization time period in the structure has to be in the organizational structure time period (yyyy/mm/dd - yyyy/mm/dd).	Set the time period within the time period set in the organization.
Company list—Update	At pressing on [Update] button	Start date is later than the end date.	Time series of the effective start date (yyyy/mm/dd) and the effective end date (yyyy/mm/dd) of the organizational structure time period is not correct.	Modify the start date and end date of the time period.
		The time period is not within the time period of the organizational structure.	The time period of the organization is not correct. Organization time period in the structure has to be in the organizational structure time period (yyyy/mm/dd - yyyy/mm/dd).	Set the time period within the time period set in the organization.
Company list—Copy a company—Input POP new time period	At pressing on [OK] button	Start date is later than the end date.	Time series of the effective start date (yyyy/mm/dd) and the effective end date (yyyy/mm/dd) of the organizational structure time period is not correct.	Modify the start date and end date of the time period.
		The copied and newly configured time period is not within the time period of the organizational structure.	The time period of the organization is not correct. Organization time period in the structure has to be in the organizational structure time period (yyyy/mm/dd - yyyy/mm/dd).	Set the time period within the time period set in the organization.
Organization list — Member tab—Time Period-List POPUP page (configure the user's belonging)	At pressing on [register] button	The user's time period is not within the time period of the profile.	The time period of the organization is not correct. Organization time period in the structure has to be in the user's time period(yyyy/mm/dd - yyyy/mm/dd).	Set the time period of the user's belonging within the time period set in the profile.
		Start date is later than the end date.	Time series of the effective start date (yyyy/mm/dd) and the effective end date (yyyy/mm/dd) of the organizational structure time period is not correct.	Modify the start date and end date of the time period.
		The time periods are overlapping.	Configured time periods, (yyyy/mm/dd - yyyy/mm/dd) and (yyyy/mm/dd - yyyy/mm/dd), are overlapping. Modify them not to overlap.	Modify the time period not to overlap on the other time period.

- Please refer to the Column, “Handling of the end date of effective time period (p.78)” about effective time period.

2.8.2 Position Setting

Positions of each company can be registered using the [Position Setting] page under the [Application Common Master Control]. Since the position information is also converted into history record, enter the information while registering the time period information.

It is possible to register only just position here, without linking it to any users. The association to the users can be done at the [Organization Setting] page when registering the members, by selecting the specific position registered from this [Position Setting] page.

<Registration page of the position>

1 **Click on the [Position Setting] page under the [Application Common Master Control] to register the position.**

[Position] page will be displayed.

2 **Enter the code in [Company Code] and click on the [Search] button. If you do not input any code in the [Company Code], all the companies are displayed.**

Registered company and each department are displayed in the left tree view.

<Registered company and department will be displayed.>

3 Select the company in the tree view and click on the [New] button.

Page to register a new position will be displayed.

<Register a new position>

4 Click on the [Add] button in the time period, and register the time period of the position.

<Add a time period>

[Add] Button	Add a new time period.
[Modify] Button	Change the selected time period information.
[Delete] Button	Delete the selected time period information.

- Please refer to the Column, “Handling of the end date of effective time period (p.78)” about effective time period.

5 Register the name of the position, and click on the [Register] button.

Position will be registered.

<Registering the position information>

Position Code (Indispensable)	Enter the position code.
Position Name (Indispensable)	Enter the position name. Since the system caters to multiple languages, select the different registered languages to key in the information.
Sort key	Specify the number of the sequence to display the position in the position list.
Notes	Enter a note.
[Register] Button	Register an entered position.

2.8.3 Public Group Setting

A public group is used when the user need to create a user group that is independent from any organizations (such as business departments). It can be used for authorized internal group in company projects, etc. The registration of public groups can be done using the [Public Group Setting] page under the [Application Common Master Control]. Public groups are also designed to handle history records and hierarchies just like organizations. The setting for the public groups is in the same manner as that for the organization.

<Public group registration page>

- Please refer to the Column, “Handling of the end date of effective time period (p.78)” about effective time period.

2.8.4 Application Common Master Import/Export

Information registered with the application common master, such as company/organization, position, public group, and user profile, can be imported using the [Batch Setting] page under the [Login Group Administration].

<Import page of the application common master>

Column

Advanced Usage of Application Common Master

(Public Zone and Search Area)

intra-mart controls users by grouping them into various groups, such as company/organization group, public group, and private group. You can achieve ,pre advanced grouping operation with using 2 keys, “Public Zone” and “Search Property”.

●Public Zone

Public zone is used for changing the limits of access for the company or organizations, depending on the characteristics of each application. For example, while an internal schedule control application list down the entire organization and the employees, the Public Zone function can be used to show just a specific group of organizations on community applications that involve other business associates.

Public zone can be registered using the [Category Setting] under the [Application Common Master Control].

<[Category Setting]Page>

●Search Property

Search Property is a Key specifically attached to organizations that defines the role of an organization. For example, the user can use search property to meet requirements such as: “display a certain company/organization in the Customer Search (corresponding to “Customer” in the diagram below)”, or “display an organization in the Partner Company List (corresponding to “Partner” in the diagram below)”.

Search property can be registered using the [Classification Setting] under the [Application Common Master Control].

<[Search Property Setting]Page>

Please refer to the separate volume of “Application Common Master Material” on how to create an application using public zone and search property.

2.9 Application Common Master unit-2 (Product Master)

Product master which can be used from the application to be created is prepared in intra-mart. Menu related to the product master is prepared in [User Setting] – [Product Master] folder.

2.9.1 Feature of Product Master

The features of product master are as follows.

2.9.1.1 Product Time Period

Product corresponds to product time period and can have information about product name, common name of the product, retail unit price, and purchase unit price as a history. This enables to process the information on time. Upper structure of the product and product master is corresponding to the multiple languages.

2.9.1.2 Product Attribute Information and Template

You can freely add attribute information other than basic information such as product name, common product name, sales unit price or purchase unit price. In order to add the attribute information, you have to register the attribute information into the template and configure which template will be adapted to the product master.

2.9.1.3 Product Category and Control

The products registered into the product master can be categorized and controlled according to the needs. In order to categorize the products, you have to register the product category in tree-shaped view and register the products in the acral category (At this point, the most significant product category is called as “product category class”).

2.9.1.4 Handling Information

Registered product is registered as “handling” information by itself or combined with other products. Product master is basic master information, but handling information is used in the real transaction. For this reason, you can configure different unit price or time period for each client. You can configure the right of role, company/organization and public group as the client.

2.9.2 Product Setting

At this point, product information is registered to the product master. Since product setting is corresponding to the time period, you can add information with “time period information” tab if necessary. In addition, you can use the created template as the attribute in this page.

1 Select [ITEM Setting] in [ITEM Setting]. In order to register a new product, click on the [New] button.

In the left side of the page, the registered product information can be searched and displayed. Products can be searched from product codes or classified categories and displayed.

2 Enter the basic information in the displayed [Main] tab.

Product Code(Indispensable)	Product code is automatically numbered and displayed. You can change this if necessary.
Product Model Number	Enter the product model number
Notes	Enter the note about the products.
Catalog	You can enter the catalog information of the product to register. You can do this process in editorial page after registering the products.

3 Click on the [Time Period Information] tab and enter the detailed information.

[Add] Button	By default, this is configured as the range from the processing day to the maximum effective date. In case of adding the time period, click on this button. If you add the time period, the end date of time period information is automatically configured. You can configure a new time period from the next day.
[Modify] Button	You can change the start date of the selected in the time period list.
[Delete] Button	You can delete the start date of the selected in the time period list.
(Tem Period List)	If multiple time periods are registered, only the start date is displayed. Profile of the selected term is displayed below.
Enlarge	Enlarge the display of the time period list.
Expire date	Usually, the start date of the time period is a date when you register, and end date is the maximum effective date. If you configure the time period, the previous day of the start day is the end date. Successive time period is configured. If you configure the end date, please use this button. If you delete the configured expire date, click on the [Clear] button.
Product Name(Indispensable)	Overwrite the product name which is displayed by default. Since this information is corresponding to the multiple languages, select the language in the combo box and enter the product name if necessary.
Product Name (Common)	Enter the common name related to this product. Since this information is also corresponding to the multiple languages, select the language in the combo box and enter the product name if necessary.
Sales Unit Price	Enter the sales unit price as the basic information. You can register the sales price of the target company in “handling setting” page.
Purchase Unit Price	Enter the purchase unit price as the basic information. You can register the purchase price of the target company in “handling setting” page.

- Please refer to the Column, “Handling of the end date of effective time period (p.78)” about effective time period.

4 Click on the [Attribute Information] tab and enter the attribute information.

In order to register the attribute information of the product, you have to create the product template in advance and configure a template adapted to this page. In addition, since the attribute value is corresponding to the multiple languages, you have to select the language in the combo box and enter each value.

[Template Select] Button	In order to register the attribute, you have to apply the template of which attribute is configured. If clicking this, [Template Select] dialog is displayed. You can cancel the application of the configured template by [Template Delete] button.

Attribute Name	Attribute name configured on the applied template is displayed.
Attribute Value	Enter the attribute value of this product. Input is according to the configured data type.
Data type	Data type configured on the applied template is displayed.
Description	Description configured on the applied template is displayed.
[Register] Button	If you click this button when you have finished inputting, the product information will be registered.

5 **Click on the [Register] button and register the product information.**

2.9.3 Item Template Setting

In order to register the attribute, you have to create the template of the product in advance.

1 Select [Item Setting] in [Item Setting]. In order to register a new product, click on the [New] button.

In the left side of the page, the registered product information can be searched and displayed. Products can be searched by keyword searching (match partial) with the template name, and can be displayed.

2 Enter the basic information in the displayed [Main] tab.

Template Code (Indispensable)	Code of the product template is displayed with automatically numbering. You can change this if necessary.
Template Name (Indispensable)	Enter the name of the product template.
Notes	Enter the notes of the product template.

3 Double-click the [Attribute List] and enter the attribute information of the product information.

[Add] Button	Click on this button when adding attribute lines.
[Delete] Button	You can delete the selected attribute lines. In order to select the attribute line, click on the head of the value.
[Top] Button	Move the selected attribute line to the top of the attribute list. In order to select the attribute line, click on the head of the value.
[Up] Button	Move the selected attribute line at the next upper class. In order to select the attribute line, click on the head of the value.
[Down] Button	Move the selected attribute line at the next class below. In order to select the attribute line, click on the head of the value.
[Bottom] Button	Move the selected attribute line at the bottom. In order to select the attribute line, click on the head of the value.
Attribute Name	Enter the attribute name.
Data Type	Select the data type of the attribute from “Character Type” or “Data Type”.
Notes	Enter the notes of the attribute.
[Register] Button	When you click on this button, the product template is registered.

4 Click on the [Register] button to register the product template.

2.9.4 Product Category Setting

In order to categorize the product information, “product category” is prepared. This part explains how to create the product category and register the product. Product category is bundled in “Product Category Class”, so you have to register the “Product Category Class” at the first step.

1 Select [Item Category Setting] in [Item Setting]. In order to register a new product category, you have to create a product category class. Click on the [New] button, and select the [Product Category Class].

In the left side of the page, the registered product category class will be displayed, and the registered product category will be displayed below it.

2 Enter the information of the product category class by the displayed [Main] tab.

When registering the product category class, you can not enter [Product List] tab.

Product category code (Indispensable)	Codes of the product category class are automatically number and displayed. You can change these if necessary.

Product Category Name (Indispensable)	Enter the name of the product category class.
Sort Key	Enter the order displayed in the product category with half-width number.
Notes	Enter the notes about the product category class.

3 After entering the product category class, click on the [Register] button.

Registered product category class is displayed in the list at the upper left of the page.

4 Select the product category class from the list of the product category list and click on the [New] button and select the [Product Category].

5 Enter the information of the product category class in the displayed [Main] tab.

Parent Product Category Name	Parent category of the product category to register is displayed. If it has multiple product categories, click on the [Select Parent Category] to select which category you create the product category under.
Product Category (Indispensable)	Codes of the product category are automatically numbered and displayed. You can change them if necessary.
Product Category Name (Indispensable)	Enter the product category name.
Sort Key	Enter the order displayed in the product category with half-width number.
Notes	Enter the notes about the product category class.

6 Click on the [Product List] and select the product to be registered to the created product category.

[Add] Button	When you select a product, click on this button. You can search the registered product from product code or category. If product is displayed, select it in the check box and click on the [Add] button.
[Delete] Button	You can delete the selected product from the product list.
Product Code	Product code registered in the product master is displayed.
Product Name	Product name registered in the product master is displayed.
Description	Description of the product in the product master is displayed.
[Registration] Button	Product category is registered by clicking this button.

7 **Click on the [Register] button and register the product category.**

2.9.5 Handling Setting

Registered product is registered as “handling” information by itself or combined with other products. Product master is basic master information, but handling information is used in the real transaction. For this reason, you can configure different unit price or time period for each client. You can configure the right of role, company/organization and public group as the client.

1 Select [Item Dealer Setting] in [Item Setting]. In order to register a new product, click on the [New] button.

In the left side of the page, the registered handling setting will be displayed.

2 Enter the basic information of the handling by the displayed [Main] tab.

[Add] Button	By default, this is configured as the range from the processing day to the maximum effective date. In case of adding the time period, click on this button. If you add the time period, the end date of time period information is automatically configured. You can configure a new time period from the next day.
[Modify] Button	You can change the start date of the selected in the time period list.
[Delete] Button	You can delete the start date of the selected in the time period list.

Enlarged Display	Enlarge the display of the time period list.
(Time Period List)	If multiple time periods are registered, only the start date is displayed. Profile of the selected term is displayed below.
Handling Code(Indispensable)	Handling code is automatically numbered and displayed. If necessary, you can modify.
Handling Name (Indispensable)	Enter the name of this handling.
Client (Indispensable)	Select and enter the client of the handling. You can search it from list or tree view in the organization search page.

Client Class	Select the type of the handling, “Sales” or “Purchase”.
Unit Price (Indispensable)	Enter the unit price of this handling. If you calculate and input the total amount of the multiple products registered in the “Product Handling” tab, click on the [Automatic Calculation] button.
Currency	Select and input the currency from the combo box.
Notes	Enter the notes about handling.

3 Click on the [Product Handling] tab and select the product.

Detailed Display

Detailed information of the selected product is displayed.

[Add] Button

Click this if you make an additional registration of the product.

You can select the product by searching the product in this page and clicking on the [Add] button.

[Delete] Button	Click on this if deleting the selected product from the product list.
Product Code	The product code is displayed.
Product Name	The product name is displayed.
Sales Unit Price	Enter the unit price of this handling.
Amount	Enter the amount of this handling.
Unit	Enter or select the unit of this handling.

4 Click on the [Authorization Setting] to configure the authorization of the handling.

You can configure the authorization of the role, organization and public group by each [Add] button.

Role	A user, who has a role, only configured here has the handling authorization.

Organization	An organization only configured here has the handling authorization.
Public Group	A public group only configured here has the handling authorization.
[Register] Button	Click this button to register the handling.

5 **Click on the [Register] button to register the handling.**

2.9.6 Item Master Import

You can import the information of the product master (product template, product, product category and product classification) in this page. You have to describe the file path to import and click on the [Import] button.

<Import page of product common master>

2.10 Portal Settings and Operations

The standard intra-mart comes with a function that automatically displays a pre-assigned page (called “portlet” in portal application) on the default login screen (intra-mart home page) so as to draw the users’ attention to specific information. This portal function is achieved by using intra-mart portal modules.

Rate of information throughput within the organization can be improved by setting portal sites for each department and individual portal sites.

Service level in EC site and market place can be greatly improved through setting portal site for each company (customer/partner).

<”Company/Organization” portal and “User” portal>

First create the information pages of each application on intra-mart that are to be displayed and register them as portlet. These become usable portlets, and they can be freely laid-out to form up the portal screen. In addition, some of the intra-mart applications, such as Workflow Module and WebMail, are already pre-installed with portlet screens.

ログイン
intra-martにログインすると、初期画面にポータル画面が表示される

ポートレット配置
登録したポートレットをポータル画面に配置する

ポートレット登録
各アプリケーションで作成したページを「ポートレット設定」画面でポートレットとして登録する

2.10.1 Portal Types and the Creation Menu

intra-mart is pre-installed with 4 types of portal screens as given in the table below. The main difference between these portals is their target users. While some of them are to be viewed by all the login group members, others may be for particular individuals. By configuring the access rights, it is also possible to display the portal screen just for a specific set of users. It is also possible to create multiple numbers of the portals other than the global portal.

Portal Type	Display Place	Creator	Basically Display Area	Access Right Setting
Global Portal	Page before login	Login Group Administrator	All the login group members	None
Group Portal	intra-mart homepage (as a tab)	Login Group Administrator	All the login group members	Company/ Organization Public group Role
Organizational Portal	intra-mart homepage (as a tab)	General User, Organizational Portal Administrator	Organization which the developer mainly belongs to (excluding the lower organizations)	Lower organization
User Portal	intra-mart homepage (as a tab)	General User	Developer	None

2.10.1.1 Portals on the Login screen

Global portal is a portal that is viewed by all the login group members and comes with no access right restrictions. Since this portal will be displayed on the default login screen, it comes with a login portlet.

<Global portal>

2.10.1.2 Portals displayed on intra-mart Home Page

Group portal, organization portal, and user portal will be displayed on the intra-mart home page. Each portal is displayed as a tab, and can be easily switched from one to another. In addition, the user can click on the [HOME] button on every intra-mart pages to go back to the home page.

<Portals can be switched by using tabs in the homepage of the intra-mart>

Portlet provided by default

Portlet Name	Application	Recommended Displayed Line Number	Notes
Link Page		Less than 3 lines	
Login Portlet		Less than 3 lines	Configured only by global portal
Asahi Shinbun RSS		Less than 3 lines	Import various RSS
New Task	Workflow	Less than 3 lines	
Important Announcement		Less than 3 lines	Display the information about password administration

Portlet attached with intra-mart application

Portlet Name	Application	Recommended Displayed Line Number	Notes
This Week's Schedule	Start Pack	Less than 2 lines	
Today's Schedule	Start Pack	Less than 3 lines	
List of New To-do	Start Pack	Less than 3 lines	
New Favorite Information	Start Pack	Less than 2 lines	
New Delivered Information	Start Pack	Less than 3 lines	
New Community Information	Start Pack	Less than 3 lines	
New Estimate List	Business Support	Less than 3 lines	
New Order Entry List	Business Support	Less than 3 lines	

New Business Daily Report List	Business Support/ Start Pack	Less than 3 lines	
Master's New Comment	Business Support/ Start Pack	Less than 3 lines	
Newly Arrived Mail	WebMail	Less than 3 lines	

2.10.2 Creating Portlet Pages

For Script Development Model and JavaEE Development Model, framework development model, external URL pages that are to be displayed as a portal screen is created as a portlet. intra-mart is pre-installed with sample portlet page.

- Unlike normal pages, a portal screen needs to be changed according to the rules of portal modules. For the creation of a portal screen, please refer to the API List's [JavaEE Development Model] – [Operation Platform Tools] – [Portal Modules] – [im-Portal] – [Development Guide], as well as [Script Development Model] – [Operation Platform Tools] – [Portal Modules] – [im-Portal] – [Development Guide].

2.10.3 Registering as a Portlet

First, register a page created for portlet usage as a portlet. The setting will be done on the [Portal] – [Portlet] page.

1 Display the Portlet Setting Page.

A list of registered portlet will be displayed. Click on the [Register New] to register a new portlet. To edit an existing portlet, click on the icon in front of the portlet name.

<List of registered portlet >

Column

Caching Function of Portlets

Since cache information created in the server is read by using cache function, the portlet can be displayed quickly. You can configure the cache for each portlet to be displayed in the portal.

2 Adding a portlet.

Enter the portlet information on the registration screen, and then click on the [Register] button.

<Registering a page as a portlet>

Application	Input the name of the application on which the portlet is based.
Name (Indispensable)	Input the name of the portlet. This name will be displayed on the portal's setting page.
Page Type (Indispensable)	Select the type of the portlet from the list below. PresetaionPage : Select this if the portlet is created by the Script Development Model. Servlet/JSP : Select if the page is created by JavaEE without using im-JavaEE Framework. im-JavaEE Service Framework : Select if the portlet is created by using im-JavaEE Framework. Internet : Select this if the portlet is a web site. Menu Lin: Select in case of the portlet to display the intra-mart menu. RSS : Select in case of RSS portlet
Page Path or URL	Enter the path or URL of the portlet. This is displayed if the following is selected as "Page Type". PresetaionPage, Servlet/JSP, Internet
Page Argument	Select if there is an argument in the registered page. This is displayed if the following is selected as "Page Type". PresetaionPage, Servlet/JSP, Internet, im-JavaEE Service Framework
Application ID	Enter the application ID. This is selected if "im-JavaEE Service Framework" is selected in "Page Type".
Service ID	Enter the application ID. This is selected if "im-JavaEE Service Framework" is selected in "Page Type".

Menu Link Set	Select the menu link set. This is displayed if “Menu Link” is selected as “Page Type”.
RSS URL	Enter the URL of RSS. This is displayed if “RSS” is selected as “Page Type”.
Proxy Host Name	Enter the proxy host name in case of the environment to connect internet via proxy server. This is displayed if “RSS” is selected as “Page Type”.
Proxy Port Number	Enter the proxy host number in case of the environment to connect internet via proxy server. This is displayed if “RSS” is selected as “Page Type”.
Purser	Select whether the link destination of RSS is RSS1.0 or RSS2.0. This is displayed if “RSS” is selected as “Page Type”.
Title Display	Please select whether title bar is “displayed” or “not displayed”.
Cache Setting	Select the cache time in case of caching the displayed information of the portlet in the server.
Portlet Description	Enter the description of the portlet.
Display Area (Length and Width)	Configure the displayed area of the portlet. You can specify the width and length by ratio (%) or pixel.

- To register a page created with Struts as Portlet (JavaEE Development Model)

Register in the same manner as JSP pages. Please refer to the following example.

Example)Type of Page [Servlet or JSP]

Path or URL /struts_test/menu_to_seller_list.do(add “/” mark at the head)

3 Go back to the Portlet Setting page, and click on the [Access Right Setting] icon.

Right after a portlet is registered, all the members of the login groups can use the portlet. If the portlet is meant only for specific users or organization, click on the Access Right Setting icon to configure the access rights.

<List of registered portlet>

4 Click on the [Search] icon on the Access Right Setting page.

<Configuring access right of portlet>

5 Configure the access right of the portlet, by selecting from the Companies/Organizations, Public Groups, or Roles.

Go back to the Access Right Setting page once the setting is complete.

<Access right setting page>

6 The access right that has been set is displayed on the Access Right Setting page.

Click on the Detail icon to set the detailed conditions.

<Access right setting page>

- "Available Portlet" list will be displayed on the Portlet Layout pages of the organization's internal portal and the user portals. Once the access right of the portlet is set, it will only be displayed on the authorized users' pages. Without setting any access right, the portlet will be displayed on all users' pages.

Column

Display Google gadget in the portal

You can display the gadget provided by Google in the intra-mart portal.

1 Select the preferred grudged in the “Google gadget for web page” page, and click on the “Add to your web page”.

http://www.google.com/ig/directory?synd=open

2 Customize in the detailed setting page of the selected gadget and click on the [Obtain the code] button.

3 HTML code is created at the bottom of the screen. Copy the code and create an arbitrary file with html extension.

Example of the created HTML code
<script src="http://gmodules.com/ig/ifr?url=http://www.google.com/ig/modules/datetime.xml&up_color=blue&synd=open&w=320&h=136&title=__MSG_title__&border=%23ffffff%7C3px%2C1px+solid+%23999999&output=js"></script>

<Notes>In case of using InternetExplaror, garbled characters may occur. If necessary, configure the character code as follows.
<script CHARSET="UTF-8" src="http://gmodules.com/ig ...></script>

4 According to the procedures of “2.10.3 Registering as a Portlet”, register the created page as a portlet of which page type is “Presentation Page”.

Gadget can be displayed in the portal screen page.

2.10.4 Global Portal Accessible to All Login Groups

Global portal is the portal that allows information to be displayed on the login screen. Always include the login-portlet at the login global portal to ensure the users are able to login. There can be only one global portal. To terminate the use of this portal, click the [Delete] button on the editing page.

<Global portal>

1 Click on the [Global Portal].

The selection page of portlet layout will be displayed. If a specific portal has already been configured, then the current portal layout page will appear.

2 Select a portal design and click on the [Next].

If “customize” layout is selected, please refer to the following column on “Customizing Portal Layout”.

<Portal layout selection page will be displayed if the global portal has not been configured.>

<The default page if the global portal has already been configured.>

3 Place the portlets within the displayed layout slot, and click on the [Finish] button.

Select a portlet from the [Available Portlet] at the top, and place it in the desired layout slot by clicking on the icon of the slot. Remember to include [Login Portlet]. Without this portlet, users will not be able to log in. Within the layout slot, the administrator can change the display sequence of the portlets using the and icons, or delete any portlet using the icon. In addition, the actual portal screen can be viewed while editing the layout of the portal by clicking on the preview icon.

<Register a page as a portlet.>

4 The global portal is completed. It will be displayed as the login screen of all the login group users.

Column

Customizing Portal Layout

Although the Portal Layout Selection page comes with default layout patterns, the user can customize the layout freely by selecting “Customize” at this page.

① Select “Customize” and click on the [Next] icon.

② Set the basic layout (up to 5x5) by dragging with the mouse.

③ Create the customized layout pattern by combining cells, adding/deleting columns and rows.

④ Click on the [Next] icon to go to the Portlet Layout page.

2.10.5 Group Portal for Sharing Information within Company/Organization

Basically the group portals are displayed on the pages of all login group users'. After creating the portal, the administrator can control the display area of information by configuring the access rights for Organization, Position, Public Group, and Role, etc. The group portal will be displayed on the intra-mart home page.

1 Click on the [Group Portal].

The list of registered portal will be displayed.

<Group portal list>

2 Click on the [Register New].

The Portlet Layout Selection page will be displayed.

3 Select a portal design and click on [Next].

If "customized" layout is selected, please refer to the column "Customized Layout for Portal" above.

<Portal layout selection page>

4 Place the portlet within the layout slots, and click on the [Next] button.

Select a portlet from the [Available Portlet] at the top, and place it in any layout slot by clicking on the icon. Within the layout slot, the user can change the display sequence of the portlet using the or icons, and delete any portlet using the icon. In addition, the user can also click on the preview icon to view the actual portal screen when edit the layout of the portal.

<Placing a portlet>

5 Key-in the name and description of the portal at the Basic Setting page, and click on the [Finish] button.

The screen page will return to the Portal List page.

6 Click on the Access Right icon.

<Portal list>

7 Click on the [Search] icon on the Access Right Setting page.

Access Right Setting page will be displayed.

<Access right setting page>

8 Select Access Right.

<Select access right>

9 Return to Access Right Setting page.

The configured information will be displayed on the page. The group portal is now completed.

<Access right setting page>

- This portal will be displayed on a tab at the home page of the users with the access right set for the group portal.

2.10.6 Creating the Link List (Link Page Portlet Setting)

The link list configured here will be displayed on the intra-mart's "Link List Portlet". This setting must be completed prior to the use of "Link List Portlet".

1 Click on the [Link List].

Registered categories will be displayed on the page.

2 Enter the Link List category and sort key at the bottom of the page, and click on the [Register] button.

<Register the link list category.>

3 From the left tree, click on the Link List to be registered, and click on [Register New Item].

<Click on the editing icon for category.>

4 Input the Link List information and click on the [Register] button.

<Link list registration>

Categiory (Indispensable)	Select the category to register.
Name (Indispensable)	This name will appear on the Link List.
URL (Indispensable)	Input the site URL to link.
Sort Number	Input the sort number that determines the display sequence.
Display Setting	Select the same window or additional window to open a link.
[Simplified SSO Setting] Button	[Simplified SSO Parameter Setting] page will be displayed. You can configure the parameter to automatically log in the site. If you do not configure the parameter, automatic login will not run.
Description	Input the link description.

Simplified SSO Parameter Setting

This part explains how to configure the parameter to automatically log in the site of the link destination Be sure to configure the account and password.

<Simplified SSO Parameter>

Add Attribute	Add attributes.
Delete Attribute	Delete the attribute checked in the check box.
Check Box	Check the check box of the attribute to be deleted.
Label	Enter the label. “Account” and “Password” are fixed label.
Name	Specify the information to be delivered to the site. Enter the value of the “name” specified in the input form of the site about account and password.
Vakue	Specify the value to be delivered to the site. If “user setting” is checked, you can not input the value.
User Setting	Check the attribute which user configures.
[Register] Button	Register the simplified SSO setting which is now opened. [Register] button is displayed only at the new registration.
[Update] Button	Update the simplified SSO setting which is now opened. [Update] button is displayed only at the new registration.
[Delete] Button	Delete the simplified SSO setting which is now opened. [Delete] button is displayed only at the new registration.

5 The registered link page is displayed in the portal page using the link page portlet.

Column

Icons Displayed in the Link Page

- Displayed with obtaining specific icons (Favicon.ico) of each site from the linked page.
- Might not be displayed properly depending on the icons or browser.
- Pictures might not be displayed completely if taking much time to obtain the icons.
- Change the value of “displayFavicon” attribute as false in order to hide Favicon.ico in the following setting file.
  WEB-INF/classes/PortalCommonConfig.properties

2.10.7 Creating Menu Link

Menu link is a portlet to display arbitrary intra-mart menu in the portal page (group portal). Group administrator configures this.

- Please configure the menu link only of the group portal.

1 Click on the [Menu Link] and [Register New].

Registered menu link is displayed in the screen page.

<Menu link list>

2 Enter the menu link name to select the menu to be displayed. Since menu list displays a part of menu, display preferred menu by clicking on the icons. After you select, click on the [Register] button.

<Select a menu.>

3 If selected menu list is displayed, configure the order to display by [Sort] and click on the[Register as a portlet].

<Click on the editorial icon of the category.>

4 Add the portlet.

Register the portlet information in the displayed page, and click on the [Register] button.

<Register the page as a portlet.>

Application	Enter the application name which is a base of the portlet. At this point, enter “menu link”.
Name (Indispensable)	Enter the name of the portlet. This name is displayed in the setting page of the portal.
Page Type (Indispensable)	“Menu Link” is displayed here. You can not change this.
Menu Link Set	You can not change this, either.
Title Display	Select “display” or “hide” the portlet title bar.
Cache Setting	Select the cache time in case of caching the portlet information in the

	server.
Description of the portlet	Enter the description of the portlet.
Displayed area (Length and Width)	Configure the displayed area of the portlet. You can specify the width and length by ratio (%) or pixel.

5 Go back to the Portlet Setting page, and click on the [Access Right Setting] icon.

Right after a portlet is registered, all the members of the login groups can use the portlet. If the portlet is meant only for specific users or organization, click on the Access Right Setting icon to configure the access rights.

<A list of the registered portlet>

6 Click on the [Search] icon on the Access Right Setting page.

<Configure access right of the portlet>

7 **Configure the access right of the portlet, by selecting from the Companies/Organizations, Public Groups, or Roles.**

Go back to the Access Right Setting page once the setting is complete.

<Access right setting page>

8 **The access right that has been set is displayed on the Access Right Setting page.**

Click on the Detail icon to set the detailed conditions.

<Access right setting page>

9 **Configure the menu link as a portal page.**

2.11 Batch Control Operations

Logics to be batch executed can be written into a batch program, and the execution time of the program can then be configured on the Batch Control page. All the settings for batch processes are carried out on the menu within the [Batch Scheduler] under the [System Setting] folder.

- Functions involving the mechanism of screen page and the Web (such as file download) also cannot be carried out.
- Schedule Service must be executed in order to use the Batch Control Module.
- Configuration of intra-mart's definition file (imart.xml) and other files is required in order to use the batch function.

2.11.1 Creating and Registering Batch Programs

Batch programs are created and registered in the following manner.

1 Create and Save a Batch Program

2 Register Batch Processing

3 Batch Control (Start up and Terminate Batch Function)

< Creation and registration workflow of batch programs >

1 Create the batch program using JavaScript.

Create a function container written with the batch program.

The Batch Control Module will automatically execute the init() function written in the function container at a designated hour.
The init() function is written in the same format as a normal function container.

```
function init(argV) {. . .}
```

The batch execution information is passed on as a variable in object format.

Alternatively, create the batch program using Java.

A class written with the batch program is created.

- Create with implementing jp.c.intra_mart.foundation.service.provider.batch.ProcedureComponent. Please refer to the API List on the interface specifications.
- Compile the created class and save it in the directory defined under the class path in Application Runtime execution environment.

2 Register the batch program

Register the batch program created. Click on the [Register New] icon on the [Batch Setting] page under the [Login Group Settings] to register the batch program.

< [Batch Process List] page>

<Register a new batch program page>

In-use/Not-In-Use	Switch between In-Use and Not-In-Use status for the batch program.
Batch ID (Indispensable)	Display the batch program ID. Usually, the ID is used as it is.
Batch Name (Indispensable)	Input the name of the batch program.
Program Execution Language (Indispensable)	Select the programming language of the batch program. Either Java or JavaScript may be selected.
Execution Program Path (Indispensable)	Key-in the path of the batch program created in the procedure1.

Execution Time	Set the execution date/time of the batch program.
[Execute] Button	Execute the registered batch program instantly. In case of the new creation, you can operate this button only after registering the batch program.
[Register] Button	Register the batch program.

3 Activate or terminate the Batch Program

Click on the [In-Use/Not-In-Use] button on either the Batch Program List page or each batch program's details page to set it to [In-Use].

- If clicking on the [Execute] button, you can execute the program instantly regardless of the "In-Use/Non-Use" setting.

2.12 Calendar Settings

Calendar settings contain functions to manage the day of the week, company-specific holidays and working days. At this page, it is also possible to set up multiple calendars by adding more calendar IDs, and create applications that use different calendars (such as one calendar for the head office and another for the factory). Here, the procedure on setting up a calendar is explained.

2.12.1 Adding Calendar Data

The calendar is registered with the general public holidays and basic calendar setting data. The following is the method to add unique calendar data for the group.

1 Click on the [Calendar Settings] menu under the [Login Group Control].

The [Calendar Update] page will be displayed.

<Calendar master maintenance page>

2 Click on [Register New].

The input page will be displayed on the right-side frame. If existing items are selected, the update/delete page will be displayed on the right-side frame.

<Calendar master maintenance page>

Calendar ID (Indispensable)	This calendar function can be registered with multiple calendar settings. The calendar ID allows the selection of the calendar to register the data.
Data ID (Indispensable)	Internal code of the calendar data. Usually it is used as it is.
Data Type (Indispensable)	Select a data type from [Name], [Holiday], [Non-Holiday], and [Public Holiday].
Data Name (Indispensable)	Input the data name.
Date	Enter the date if the data is specified by its date.
Week Number	Enter if the data is specified by a date repeated weekly.
Day of Specific Week	If this item is selected, it will be used in conjunction with the Weekday (next data entrée). Here, the administrator can specify the day of a particular week. Example: The second Wednesday
Day of the Week	Enter if the data is specified by the day of the week.
Starting Year/Ending Year	Enter the data's effective duration.
Plug-in Function	This is a function to determine some special conditions to validate the settings. The administrator can select from the list of default plug-in functions.
Display Name (Indispensable)	Since intra-mart corresponds to multiple languages, a display name for each registered language must be input.
Display Color (Indispensable)	Select the display color of the data on the calendar. The final image will be displayed if the administrator clicks on the [View Verification] button.

2.12.2 Adding New Calendar Setting

Besides the settings that come with the standard package, the administrator can register a new calendar setting in the following manner.

1 Click on [Register New].

The input page will be displayed on the right-side frame. Up to this step, the page should look the same as the operation to add new calendar data.

<Calendar master maintenance page>

2 At data entry, instead of selecting a “Calendar ID” item, key-in a new ID. Just like adding new data, enter the first data together and click the [Register] button.

A new calendar setting has been registered.

2.13 ViewCreator

ViewCreator is a tool that allows the database to be controlled from the intra-mart page. It can use login group database and system database.

There are mainly two kinds of the functions of ViewCreator; query maintenance and data reference maintenance.

Query Maintenance	This combines the table and view on the database and creates the table which is referred by the data reference maintenance. In addition, this can display the created query and preview of the table, and create a view.
Data Reference Maintenance	This configures the way to display the data created in the query maintenance (chart or table) and to refine data. In addition, this can also configure the reference authorization by each data reference.

In terms of created data reference, you can search data, refine the displayed items and change the listing order in the screen display. In addition, you can add data reference as a portlet, output it as a CSV/HTML file or a program file of script development model. Output program source can be freely customized and reused.

Thus, it is an important feature of ViewCreator to easily operate creation/display of the various tables and chart based on the database data on the Web browser.

<ViewCreator>

2.13.1 Query Maintenance

Query maintenance combines the table and view on the database and creates the table which is referred by the data reference maintenance. In addition, this can display the created query and preview of the table, and create a view. Procedures of the query maintenance are as follows.

<Query maintenance>

In the query maintenance, login group administrator can operate following procedures;

- Creating / editing a query
- Copying a query
- Deleting a query
- Displaying SQL
- Creating a view
- Displaying a preview

2.13.1.1 Creating Queries

Specify the database to connect and create a new query.

1 Click on the [Query Maintenance] from the [ViewCreator] menu.

[Query]list page is displayed.

<Query list>

2 Select database connection reference name from [DB Connection Reference].

<Select a database to connect.>

Column

Configure the database to connect in advance

When you open a query maintenance page, you can configure the database to connect in advance. It is recommended to make configuration if you connect to the same database as usual.

If the system administrator configures the following value, database to connect can be configured.

Key : dbSource

Value : Login group name or connection ID of system database

If you configure the value as the name of login group, you can configure the login group only which logs in the system at that time. In case of configuring this, please confer to the system administrator.

3 Click on the [Create New].

[Query Edit] page is displayed.

<Click on the [Create New].>

<[Query Edit] page>

Query Name	Enter a name of query to be created. Query is displayed with this name in the query list. This is an indispensable input item.
Description	Enter the description of queries to be created.
Search Keyword	Refine the name of table or view with match partial.
Exclude	If you check this, you can display the tables without tables including the characters in the text box.
	Update a table or view displayed in the list.
Delete	Delete the selected view. This is displayed only if selecting [view] tab.
[Table] Tab	Display a list of tables existing on the database.
[View] Tab	Display a list of views existing on the database.

[Add] Button	Add a query to the column.
[Delete] Button	Delete a selected column.
[Ascending] Button	Move the selected column to the next upper level.
[Descending] Button	Move the selected column to the next lower level.
A List of Extracting Conditions	Configure the conditions to extract data.
Colum List	Configure the column corresponding to the query.
[Register] Button	Register the configured query.
[New Creation of Data Reference] Button	Create a data reference from the created query. You can click on this button only after registering the created query.

4 Enter the query name.

Please enter the description if necessary.

<Enter the query name>

5 Open a table or view.

- Once a list of table and view is displayed, the data is cached by each DB connection reference. At the next access, they are displayed with using the cached data.
  When updating the database, please click on the , and display the table or view again.

Refine tables or Views

Displayed tables or view can be refined.

When you input some characters in the text box at the top of the list, table names or view names are refined with match partial.

If you check[Exclude], you can display the tables without tables including the characters in the text box.

<Refining>

[Table] Tab

If you open an item in the table list, double-click the [Table] tab. Select the item to open, and double click the item or drag & drop it to the right space.

<Open a table.>

■[View] tab

If you open an item from the view list, double-click on the [View] tab. Select the item to open, and double click the item or drag & drop it to the right space.

<Open a view.>

■Delete a view

You can delete view displayed in the list.

In case of deleting them, select the view to be deleted and click on the [Delete].

- If you click on the [Delete], a view in the database is deleted. If you delete a view by mistake, data in the database might be broken. In case of deleting, be sure to confirm whether the data can be deleted or not. Once you delete a view, a query and data reference which use the view are also deleted. Please be sure to confirm this point.
  In addition, you can not delete a multiple views at the same time.

<Delete a view.>

6 Operate a table.

You can operate a table such as combining the tables or configuring the way of the combination.

As for the table operation, please refer to “2. 13. 12 Table Operation” about the operation of the table.

<Operate a table.>

7 Add a column.

In case of adding a column, select the column to add from the table list and operate the following procedures.

- Select the table list and click on the [Add] button.
- Select the Colum in the table list and drag & drop it to the column list.
- Double-click on the column in the table list.

<Add a column.>

- In case of adding a column with [Add] button or double-clicking, the column will be added to the bottom of the list. In case of adding with drag & drop, the column will be added to where the column is dropped.

8 Configure the column of the table.

<Configure the table column.>

Table	The table name of the added column is displayed.
Column	Select a column (specify it from the field included in the selected table).
Model	Items similar to the field on the real database are automatically selected (Example: If field type is “VARCHAR”, “character string” is automatically selected as the column type). You can change the selected model if necessary. The models which you can select are as follows.
Character String	Select in case of the column to display a character string.
Numeric Value	Select in case of the column to display a numeric value.
Date	Select in case of the column to display a date.
Caption	Configure the caption of the column. The character string configured here is used as an item name when displaying data reference. By default, the physical name on the database is displayed, so please configure the understandable name.

- If you add multiple tables, continue the procedure from 5 to 8.

9 Configure the extraction condition by [Extraction Condition] tab.

<Configure the extraction condition.>

Table	Table name of the column of which conditions are configured is displayed.
Column	Select a column (specify it from the field included in the selected table).
Extraction Method	Select the extraction method from the following 7.
Match Full	Extract data perfectly consistent to the configured condition value.
Match Partial	Extract data including configured condition value.
Match Front	Extract data of which head is consistent to the configured condition value.
Above or equal	Extract data including or above the configured condition value.
Below or equal	Extract data including or below the configured condition value.
Less Than	Extract data which is less than the configured condition value.
Area Specification	Extract data consistent to the configured area as the condition value. The start value of the area specification includes the condition value and end value does not include the value. In addition, you can configure the condition as the outside of the specification area.
Condition Value	Enter the condition value to extract. Otherwise, you can select the “system value” in the combo box as the condition. You can select the system value from the following 7 kinds. They are automatically obtained and configured based on the information such as login user or system date when displaying the data reference display.
<%SYSTM_DATE (yyyy/MM/dd)%>	Character string to show the system date. In the case arc, you have to specify the format of the date character string. (For mat is edited by the direct input). y : Year, M : Month, d : Day h : AM/PM hour (1 - 12) H : Hour in a day (0 - 23) k : Hour in a day (1 - 24) m : Minute, s : Second, S : millisecond a : AM/PM, E : Day of the week
<%LOCALE%>	Locale of the login user (such as "ja" or "en") is configured.

<%ENCODING%>	Encoding of the login user is configured.
<%LOGIN_GROUP%>	Login group code of login group is configured.
<%USER_ID%>	User code of the login user is configured.
<%MAIN_DEPT_CD%>	Main affiliated organization of the login user at the system date is configured.
<%MAIN_COMP_CD%>	Main affiliated company of the login user at the system date is configured.

10 Click on the [Register] button.

Query is created.

<Register a query.>

2.13.1.2 Table Operation

You can make table operation of the general SQL function such as combining the tables or configuring the combination on the Web browse with using ViewCreator.

Table operation such as table combination or combination setting is explained in this chapter.

Combining tables

Combine one table with another table.

1 Select and drag the column in one table and drag it to the column of the other table.

<Combine the tables.>

Bonding line is described between the table and the other table, and they are combined.

<Combine the tables.>

- In case of combining the tables, the values are combined at per value.

■Configure how to combine the tables.

Change how to combine the tables.

2 Double-click on the binding line to change the combination or right-click to select [Biding Line Property].

[Biding Line Property] window is displayed.

<Select a combination.>

3 Configure how to combine.

<Configure how to combine.>

Left Table Name	Select the left table name.
Right Table Name	Select the right table name.
Left Direction Word of left column	Select the left direction word (field) of the left side.
Right Direction Word of left column	Select the left direction word (field) of the right side.
Include rows only of which the combination filed of the tables are same, each other.	Select in case of combining at per value.
Include all the record of the left table and record of the right table in the same combination field as	Select in case of combining the left table.

the left table.	
Include all the record of the right table and record of the left table in the same combination field as the right table.	Select in case of combining the right table.
[Confirm] Button	Configure how to combine in the selected ways and return to the [Query Edit] page.
[Cancel] Button	Not configure how to combine and return to the [Query Edit] page.
[Delete] Button	Delete the opened binding line.

4 Click on the [Confirm] button.

The combination way is configured, and you can return to the [Query Edit] page.

<Confirm how to combine tables.>

- If you make left-side combination, the binding line is described from the left table to the right table with the arrow (→). If you make left-side combination, the binding line is described from the right table to the left table with the arrow (←).

■Cancel the combination

You can cancel the combined table. The way is as follows.

・Right-click the binding line to delete and select [Delete].

・Click on the [Delete] if [Binding Line Property Window] of the binding line to delete.

・Click on the binding line to delete and push on the [Delete] key.

<Delete a binding line.>

■Changing the size of the displayed table.

Change the size of the displayed table.

5 Clink on the lower right of the table window to change the size, and drag it as an arbitrary size.

Size of the table window will be enlarged or shrunk.

<Change the display size of the table.>

■Putting off the displayed table

Putting off the displayed table.

6 Click on the[×] button to put off the display.

Table will be put off.

<Putting off the table.>

- If putting off the table, the column and binding line added from the table are also deleted at the same time.

2.13.1.3 Editing Queries

Select the database to connect and edit the registered queries.

1 Select the database name to connect from [DB Connection Reference].

Queries existing on the database are displayed in the list.

<Select a database to connect.>

2 Click on the query to edit.

[Edit Query] page is displayed.

<Select the query to edit.>

3 Edit the query.

Please refer to “2.13.1.1 Creating Queries” about the editorial procedures of the query.

2.13.1.4 Copying Queries

Copying a query.

1 Check the query to copy from the query list.

<Select a query to copy.>

- If you check the checkbox on the top, you can select all the items.

2 Click on the [Copy].

[Query Copy] page will be displayed.

<Copy a query.>

3 Enter the new name and description and click on the [Confirm] button.

Confirmation message will be displayed.

<Enter a new query name.>

- Please be sure to enter the query name.

4 Click on the [OK] button.

Query will be copied, and the screen will return to the [Query List] page.

2.13.1.5 Deleting Queries

Deleting queries.

- If there is data reference using a query, the data reference will be deleted at the same time of deleting the query. Please be sure to confirm this before you delete. In addition, the deleted query can not be restored. Please confirm this in advance and make operation

1 Check a query to delete from the query list.

<Select a query to delete.>

- If you check the checkbox on the top, you can select all the items.

2 Click on the [Delete] button.

Confirmation massage will be displayed.

<Delete a query.>

- If there is data reference using the query to delete, the warning message will be displayed.

3 Click on the [Yes] button.

A query will be deleted.

2.13.1.6 SQL Display

SQL sentence of the selected query is displayed.

1 Click on the query to display the SQL.

[Edit Query] page will be displayed.

<Select a query to display the SQL.>

2 Click on the [SQL Display].

[SQL view] page will be displayed. Confirm the SQL sentence.

<Display SQL.>

3 Confirm the SQL.

<Confirm SQL.>

2.13.1.7 Creating View

You can create View on the database based on the created query. You can also create a new query using the created View. The created View can be deleted, too (please refer to “Deleting View (p.195)” for details.

1 Click on a query to create the View.

[Edit Query] page will be displayed.

<Select a query to create a view.>

2 Click on the [Create View].

[Edit SQL] page will be displayed.

<Create a view>

3 Edit SQL.

Since the edited SQL sentence will be executed, please pay attention lest breaking the database.

<Edit SQL.>

View Name	Query name is displayed. Please change the name freely if necessary.
Alias Name	Alias of the filed is automatically numbered. Please change the name if necessary.

Column

Adding the conditional phrase

You can refine the data by adding the conditional phrase to the SQL sentence (Where phrase).
Usually, you can not refine the data by query, but you can create a query with refined data by using a view to which the conditional phrase is added.

4 Click on the [Execute] button.

Confirmation message will be displayed,

<Edit SQL.>

5 Click on the [OK] button.

View will be created, and the created view will be displayed in the view list.

2.13.1.8 **Preview**

Preview selected query in the screen page.

1 Click on the query to create a View.

[Edit Query] page is displayed.

<Select the query to display the preview.>

2 Click on the [Preview].

[Preview] page will be displayed and the query contents will be displayed.

<Preview the query.>

3 **Confirm the preview.**

<Confirm the preview.>

2.13.1.9 Authority of Creating Queries/Data Reference for General Users

In order to allow not only login group administrator but also general users to create a query or data reference, you have to attaché the authorization as following procedures.

1 **Configure the authorization of the folder and menu (ViewCreator, ViewCreator/Query Maintenance, and ViewCreator/Data Reference List) in the menu maintenance page.**

Following items are added to the menu of the general users.

ViewCreator/Query Maintenance
ViewCreator/Data Referece List

<Example of configuration in the menu maintenance page>

- Although you attach an authority to the menu of “ViewCreator/Data Reference List”, you can not use functions such as data creation/update/deletion or portlet creation. In order to enable the general users to use these functions, you have to configure the procedures in chapter 2 or later. In case of attaching reference authorization to the general users, this is not required.

2 Create an access controller for ViewCreator and attach the authority to refer the data.

Click on the [Login Group Administration] – [Access Control] from the menu.

<Maintenance page of the access controller master>

3 Enter the access controller ID and access controller name.

･Access Controller ID	:	im_vc_manager
･Access Controller Name	:	Arbitrary (EX：ViewCreatorManager)

4 Configure the authorization of the created access controller.

< Maintenance page of the access controller master － Authorization setting>

- Please refer to “2.5.7 Access Controller” about the details of access controller function.

2.13.1.10 Import/Export

Configuration data of the query or data reference created by ViewCreator is saved in the table of login group database. You can import and export the configured data with using “IM Insight Generator”, which is our product.

- IM insight generator is included in the following path of install CD of iWP/APP ver6.1.
  iwp_afw/tools/insert_generator
  Please refer to the enclosed manual about the details.

Export

1 **Copy the following file to the home directory of the insight generator.**

```
iwp_afw/migration/vc_insertgenerator_build.xml
```

* If login group database is PostgreSQL or Microsoft SQL Server series, please use vc_insertgenerator_sql_post_build.xml.

2 **Rename the file.**

```
vc_insertgenerator_build.xml → build.xml
```

3 **Execute the insight generator by using the renamed build.xml. You have to specify the login group database of the group to export.**

Export data (*.sql file) is created.

Import

1 **Execute the export data (*.sql file) by using the tools attached with the each database.**

- Please use the same product and version as for database for export and import.
- “DB connection ID” is necessary to be same at the import and export.
  For example, if selecting DB connection ID as “sample” and create the query and data reference, “sample” must be configured as DB connection ID in the import environment.

2.13.2 Data Reference Maintenance

Data reference maintenance configures the display type (list, summary, cross and chart), the display mode (sort order and lineup order), data refining and reference authorization. (Please refer to “Data Reference”).

The created “data reference” can be displayed and browsed, and output to the CSV and HTML file. In addition, this can be registered as a portlet and exported as a program of the script development model. You can freely customize the data reference. Data reference maintenance is implemented as following procedures.

<Data Reference Maintenance>

In data reference maintenance, the login group administrator can operate the following items.

- Create a new data reference
- Edit data reference
- Delete data reference
- Add a portlet
- Output a program file
- Display a data reference
- CSV output
- HTML output
- Configure the authority
- Display SQL
- Preview display

2.13.2.1 Creating Data Reference

Specify the database to connect and create a new data reference.

1 Click on [Data Reference Maintenance] under the [ViewCreator] menu.

[Data Reference List]page will be displayed.

<Data reference list>

2 Select the DB connection reference name from [DB connection reference].

<Select the database to connect.>

Column

Configure the database to connect in advance

When you open a data reference maintenance page, you can configure the database to connect in advance. Usually, it is recommended to configure this when using the same database.
When the system administrator configures the following values in the control menu setting, you can configure the database to connect.

Key　　：dbSource
Value　：Login Group Name or connection ID of system database

In case of configuring the value as login group name, you can configure only the login group which is active at that time.
In addition, if you add data reference CD to the page argument as follows, you can directly move to the page which displays the corresponding data reference.

Key　：dataCd
Value：Data Reference CD

If you really configure this, please confer with the system administrator.

3 Click on the [Create New].

[New Data Reference] page will be displayed.

<Click on the [Create New].>

4 Enter the basic setting items.

<[New Data Reference] page>

Data Reference CD	Enter the data reference CD. By default, automatically numbered data reference CD is displayed. This is an indispensable item.
Data Reference Name	Enter the data reference name. This is am indispensable item.
Query Selection	Select a query. This is also indispensable.
Display Type	Select the type of data display. You can select following items.
List Tabulation	Create the reference data in the table of list form. You can also “group” the column and display it hierarchically.
Summary Tabulation	Create a table by summing up the reference data by each specified information.
Cross Tabulation	Create a data table with vertical axis of the one or two reference data and horizontal axis of the another reference data.
Chart Aggregation	Create a chart of the reference data. There are four kinds of the charts; bar chart, line chart, pie chart and radar chart.
Description	Enter the description of the data to create.
Header	Enter the header of the data to create.
Footer	Enter the footer of the data to create.
[Register] Button	Register the configured data reference.

5 Enter the setup condition for each display type.

The type of the display is as following summary method.

List Tabulation : Create the reference data in the table of list form.

Summary Tabulation : Create a table by summing up the reference data by each specified information.

Cross Tabulation : Create a data table with vertical axis of the one or two reference data and horizontal axis of the another reference data.

Chart Aggregation : Create a chart of the reference data.

■List tabulation

Create the reference data in the table of list form.

■Display column configuration

In the displayed column configuration, you configure how to display in the list form.

<Display column configuration>

[Top] Button	Move the checked column to the top level.
[Up] Button	Move the checked column to the next upper level.
[Down] Button	Move the checked column to the lower level.
[Bottom] Button	Move the checked column to the bottom level.
Check Box	Check the column to move.
Column	Column registered in the selected query is displayed.
Type	Select the way to count the date in the column. You can select summary functions such as “grouping” and “Total”. The result of the summary function will be displayed by each group. The items which can be selected by the type are as follows.
Grouping	The items of the grouped column are grouped, and you can expand or omit the value.
Other than Grouping	The result of the selected tabulation method is displayed in the footer of the table. In case of selecting “grouping” in the other column, the subtotal is displayed by each group unit.
Display	Check this if displaying the column.
Form	Configure the column type. The setting item is different from the column type.
Character Type	You can not configure this.

Number Type	Check this in case of 3 digit separation.
Date Type	Select how to display the date
Sorting Order	Select the default column order toward the column. Even in case of the hidden column(column without check in the display check box), “sorting order” setting is valid. You can select following items by sort order. ・Ascending sequence ・Descending sequence
Threshold Value	If being beyond the threshold value, the data will be displayed in red. This can be configured if the column type is number mode.
Array	Select the location to display the column data. By default, the characters are displayed in right justification, and the numbers are left justification. You can select the following items. ・Right justification ・Center alignment ・Left justification

- The column at the top is displayed in the left of the table in the data reference display page.

■Extraction Condition

As the extraction condition, you have to configure the condition in order to displayed data. The column used for the condition setting is added to the footer list if you select it from the “Select Column” combo box and click on the “Add” button. You have to configure the detailed condition of the added column by “Extraction Condition” .

<Extraction condition>

Select Column	Select the column to configure the extraction condition.
[Add] Button	Add the selected column to the extraction condition list.
[Top] Button	Move the checked column to the top level.
[Up] Button	Move the checked column to the next upper level.
[Down] Button	Move the checked column to the lower level.
[Bottom] Button	Move the checked column to the bottom level.
[Delete] Button	Delete the checked column.
Check Box	Check the column to move.
Column	Column registered in the selected query is displayed.

Extraction Method	Select the extraction method from the followings.
Match Partial	Extract data including configured condition value.
Match Front	Extract data of which head is consistent to the configured condition value.
Match Full	Extract data perfectly consistent to the configured condition value.
Area Specification	Extract data consistent to the configured area as the condition value. The start value of the area specification includes the condition value and end value does not include the value. In addition, you can configure the condition as the outside of the specification area.
Condition Value	Enter the condition value to extract. Otherwise, you can select the “system value” in the combo box as the condition. You can select the system value from the following 7 kinds. They are automatically obtained and configured based on the information such as login user or system date when displaying the data reference display.
<%SYSTM_DATE (yyyy/MM/dd)%>	Character string to show the system date. In the case arc, you have to specify the format of the date character string. (For mat is edited by the direct input). y : Year, M : Month, d : Day h : AM/PM hour (1 - 12) H : Hour in a day (0 - 23) k : Hour in a day (1 - 24) m : Minute, s : Second, S : millisecond a : AM/PM, E : Day of the week
<%LOCALE%>	Locale of the login user (such as "ja" or "en") is configured.
<%ENCODING%>	Encoding of the login user is configured.
<%LOGIN_GROUP%>	Login group code of login group is configured.
<%USER_ID%>	User code of the login user is configured.
<%MAIN_DEPT_CD%>	Main affiliated organization of the login user at the system date is configured.
<%MAIN_COMP_CD%>	Main affiliated company of the login user at the system date is configured.

■Search Setting

In search setting, you can configure search items, searching method and default values of keywords or search area which can be operated by the users.

<Search setting>

Display patter of the search page	Configure where the search page is displayed once clicking on the [Search] in the [Data Reference (List)] page.
Select Column	Select the column to configure the extraction condition.
[Add] Button	Add the selected column to the extraction condition list.
[Top] Button	Move the checked column to the top level.
[Up] Button	Move the checked column to the next upper level.
[Down] Button	Move the checked column to the lower level.
[Bottom] Button	Move the checked column to the bottom level.
[Delete] Button	Delete the checked column.
Check Box	Check the column to move.
Column	Column registered in the selected query is displayed.
Extraction Method	Select the extraction method from the followings.
Keyword Searching	Search the column with the keyword.
Area Searching	Search the column with the specific area.
Default Values	Configure the default value displayed in the search items.
Keyword Searching	Enter the character strings. You can select the search option from “Match Partial’, “Match Front” and “Match Full”.
Area Searching	Enter the search area. You can select the search option from “Area Specification”, “Above or equal”. “Lower or equal” and “Less”.

- In “extraction condition”, the login group administrator configures the condition to extract and display the data configured in advance. In “search Setting”, you have to configure the items in order to enter the extraction condition when users refer the data.

Summary Tabulation

Summary tabulation creates a table by summarizing the reference data into each specific information.

■Display Column Setting

Display Column Setting configures how to create a table.

<Display column setting>

Select Column	Select the column to configure the extraction condition.
[Add] Button	Add the selected column to the extraction condition list.
[Top] Button	Move the checked column to the top level.
[Up] Button	Move the checked column to the next upper level.
[Down] Button	Move the checked column to the lower level.
[Bottom] Button	Move the checked column to the bottom level.
[Delete] Button	Delete the checked column.
Check Box	Check the column to move.
Column	Column registered in the selected query is displayed.
Type	Select how to display the data in the column. In case of “Type” of summary, this is indispensable unlike list.
Form	Configure the column type. The setting item is different from the column type.
Character Type	You can not configure this.
Number Type	Check this in case of 3 digit separation.
Date Type	Select how to display the date
Sorting Order	Select the default column order toward the column. Even in case of the hidden column(column without check in the display check box), “sorting order” setting is valid. You can select following items by sort order. ・Ascending sequence ・Descending sequence
Extraction Condition	Enter the condition in order to refine the grouped pr summarized result. If you check [Exclude], this refines the data without the input condition.
Condition Value	Enter the condition value to extract. Otherwise, you can select the “system

	value" in the combo box as the condition. You can select the system value from the following 7 kinds. They are automatically obtained and configured based on the information such as login user or system date when displaying the data reference display.
<%SYSTM_DATE (yyyy/MM/dd)%>	Character string to show the system date. In the case arc, you have to specify the format of the date character string. (For mat is edited by the direct input). y : Year, M : Month, d : Day h : AM/PM hour (1 - 12) H : Hour in a day (0 - 23) k : Hour in a day (1 - 24) m : Minute, s : Second, S : millisecond a : AM/PM, E : Day of the week
<%LOCALE%>	Locale of the login user (such as "ja" or "en") is configured.
<%ENCODING%>	Encoding of the login user is configured.
<%LOGIN_GROUP%>	Login group code of login group is configured.
<%USER_ID%>	User code of the login user is configured.
<%MAIN_DEPT_CD%>	Main affiliated organization of the login user at the system date is configured.
<%MAIN_COMP_CD%>	Main affiliated company of the login user at the system date is configured.
Array	Select the location to display the column data. By default, the characters are displayed in right justification, and the numbers are left justification. You can select the following items. ・Right justification ・Center alignment ・Left justification

- The column at the top is displayed in the left of the table in the data reference display page.

■Search Setting

In search setting, you configure the search page of data reference.

<Sear Setting>

Display Pattern of Search Page	Configure where the search page will be displayed when clicking on the [Search] in the [Data Reference (list) page.
Select Column	Select the column as the search target. You can add only the column which is selected as "Grouping" in "Display Column Setting".

[Add] Button	Add the selected column to the extraction condition list.
[Top] Button	Move the checked column to the top level.
[Up] Button	Move the checked column to the next upper level.
[Down] Button	Move the checked column to the lower level.
[Bottom] Button	Move the checked column to the bottom level.
[Delete] Button	Delete the checked column.
Check Box	Check the column to move or delete.
Column	Column registered in the selected query is displayed.
Extraction Condition	Select the extraction condition at the searching. You can select the following.
Keyword Searching	Search the column with keyword.
Area Searching	Search the column in the specified area.
Default Values	Configure the default value displayed in the search items.
Keyword Searching	Enter the character strings. You can select the search option from “Match Partial’, “Match Front” and “Match Full”.
Area Searching	Enter the search area. You can select the search option from “Area Specification”, “Above or equal”. “Lower or equal” and “Less”.

Cross Tabulation

Create a table with an vertical axis of the one reference data item and an horizontal axis of another reference data item.

■Display Setting

In display setting, you can configure how to display the data.

<Display Setting>

Column Headline	Select a column as a column headline
Line Headline	Select a column as a line headline
Value	Select a column to display the value.
3 Digit Separation	Check this if separating the value in 3 digits.
Tabulation Type	Select the tabulation type. The item you can select depends on the type of the column selected in “Value”.
Number Type	Total, Average, Maximum, Minimum, Count, Standard Deviation and Variance

Other than Number Type	Minimum, Maximum and Count
Display/Hide	Check this if displaying the total. The item you can select depends on the type of the column selected in “Value”.
Number Type	Total, Average, Minimum and Maximum
Other than Number Type	Total

Chart Aggregation

Display the data in chart.

■Chart Setting

In chart setting, you can configure how to display the chart.

<Chart Setting>

Chart Type	Select the type of the displayed chart. You can select bar chart, line chart, pie chart, radar chart.
Chart Size (Length)	Enter the length of the chart in pixel unit.
Chart Size (Width)	Enter the width of the chart in pixel unit.
Maximum Scale	Enter the maximum of the scale.
Minimum Scale	Enter the minimum of the scale.
Number per unit scale	Enter the number per unit scale

■Chart Data Setting

In chart data setting, you can configure how to display the chart.

The setting item is different by the selected chart type.

<Bar Chart>

Caption Example	Select a column to display a caption column.
Display	Check the column to display.
Column	Display a name of the column. The displayed column must be a number type.
Chart Color	Enter the color of the displayed chart with 6 digits hex number. EX: Enter “FF0000” in case of red In case of clicking on [Color] button, the color sample will be displayed. You

can configure the color by selecting it from the sample.

<Line Chart>

Caption Example	Select a column to be displayed in caption column.
Display	Check the column to be displayed.
Column	Display a name of the column. The displayed column must be a number type column.
Chart Color	Enter the color of the displayed chart with 6 digits hex number. EX: Enter “FF0000” in case of red In case of clicking on [Color] button, the color sample will be displayed. You can configure the color by selecting it from the sample.
Line Width	Enter the width of the displayed line in pixel unit.
Line shape	Select the shape of the displayed line. You can select the following. ・Continuous line ・Undulating line

<Pie Chart>

Caption example	Select a column to be displayed in caption column.
Value column	Display a name of the column. The displayed column must be a number type column.

<Radar Chart>

Caption Example	Select a column to be displayed in caption column.
Display	Check the column to be displayed.
Column	Display a name of the column. The displayed column must be a number type column.
Chart Color	Enter the color of the displayed chart with 6 digits hex number.

EX: Enter “FF0000” in case of red

In case of clicking on [Color] button, the color sample will be displayed. You can configure the color by selecting it from the sample.

6 Click on the [Register] button.

The configured data will be registered.

<Register the data reference.>

2.13.2.2 Editing Data Reference

Specify the database to connect and edit the registered data reference.

1 Select the database name to connect in [DB Connection reference].

Queries existing in the database are listed.

<Select a database to connect.>

2 Click on the setting button on the line of the data to edit

[Data Reference Edit] Page will be displayed.

<Select the data reference to edit.>

3 Edit the data reference.

Please refer to “2.13.2.1 Creating Data Reference” about the procedures to edit data reference.

- You can edit only setting items of the display type configured as “Data Reference Name”. You cannot edit other items.

2.13.2.3 Deleting Data Reference

Delete the data reference.

- You cannot restore the deleted data. Please be sure to confirm this point in advance and make the process.

1 Check on the checkbox of the line of the data reference to be deleted from data reference list.

<Select data reference to be deleted.>

2 Click on the [Delete].

Confirmation message will be displayed.

<Delete the data reference.>

3 Click on the [Yes] button.

Data reference will be deleted.

2.13.2.4 Adding to Portlet

Add the selected data reference to the portlet.

- Data references which you can add to the portlet are “Cross Tabulation” and “Chart Aggregation”. You cannot add “List Tabulation” or “Summary Tabulation” to the portlet.

1 Check on the checkbox of the line of the data reference to be added to the portlet from data reference list.

<Select the data reference to be added to the portlet.>

2 Click on the [Add to Portlet].

Confirmation message will be displayed.

<Add to the portlet.>

3 Click on the [OK] button.

The selected data reference will be added to the portlet.

- You can confirm the added portlet in the left-side menu [Portal/Portlet]. Please refer to “2.10 Portal Settings and Operation”.

2.13.2.5 Source Output

Source is output as “Program file of script development model” (HTML file and JS file) by this process. You can use this with freely customizing.

If you do not specify the setting, the source will be output to the ”%intra-mart install directory%/storage”.

If you move the output file under the pages directory and register it to the menu, the output program file will operate even though deleting the data reference or query, source of the program output

Output the selected data reference as the program file of script development model.

1 **Check on the check box of the data reference line which is output as a program file of script development model from the data reference list.**

<Select data reference to output the source>

2 **Click on the [Source Output].**

[Script Prompt] page will be displayed.

<Output a source.>

3 Enter the output file name and click on the [OK] button.

Program file of the script development model is output to the ”%intra-mart install directory%/storage”.

<Enter the name of the output file>

- After you enter “/”, create a directory and output the program file of script development model. For example, if you output a file as “vc/sample”, the following file will be output.

  /storage/vc/sample.htm
  /storage/vc/sample.js

2.13.2.6 Data Reference Display Type

Data reference display has the following types.

List display

Data is displayed in a list. You can display the data with searching and refining.

<List display>

Summary Display

Data is displayed in summary.　You can display the data with searching and refining.

<Summary display>

Cross Display

Data is displayed in a cross table.

- Cross tabulation might tale a time depending on the configuration of the data reference or data amount.

<Cross display>

Chart Display

In chart display, data is displayed in a chart.　There are 4 kinds of the charts.

■Bar Chart

<Bar chart>

■Line Chart

<Line chart>

■Pie Chart

<Pie chart>

■Radar Chart

<Radar chart>

2.13.2.7 Data Reference Display

Search data in the selected data reference and display the result.

- Data types which can be searched are “List Tabulation” and “Summary Tabulation”.
  Data reference of “Cross Tabulation” and “Chart Aggregation” cannot be searched.

1 Click on the data reference name to search from the data reference list.

<Select the data reference to be displayed.>

- Please refer to “Data Reference Display Type” about data reference display to be displayed.

■In case of executing searching,

Execute searching if data reference type is “List Tabulation” and “Summary Tabulation” and you refine the data.

2 Click on the [Search].

[Data Reference – Search] page will be displayed.

<Click on the [Search].>

- If search page is configured to be displayed in the same screen page, the search condition will be displayed in the top of the search result of [Data Reference] page.

3 Configure the display line.

<Configure the display line.>

[Add>>] Button	Add an item to be displayed in the search result column. If you select the item from the left-side list and click on the[Add>>] button, the selected item will move to the right-side list.
[<<Delete] Button	Delete n item to be displayed in the search result column. If you select the item from the right-side list and click on the[>>Delete] button, the selected item will move to the left-side list.
[Up] Button	Move the displayed line of the selected item up to the next level. If you select the item from the right-side list and click on the[Up] button, the selected item will move up to the next level.
[Down] Button	Move the displayed line of the selected item down to the next level. If you select the item from the right-side list and click on the[Down] button, the selected item will move down to the next level.

- A column configured as “Grouped” in terms of display column setting can be deleted (hided) by the summary tabulation, but not by the list tabulation. Please refer to the “2.13.2.1 Creating Data Reference” about the details of display column setting.

4 Configure the search condition.

<Configure the search conditions.>

- The displayed search items are configured in the “search setting”. Please refer to “2.13.2.1. Creating Data Reference” about search setting.

5 Click on the [Display] button.

The screen will return to the [Data Reference(List)] page and show the search result.

<Execute searching.>

2.13.2.8 CSV Output

Output the displayed data into CSV file.

1 Click on the data reference name in the data reference list.

[Data Reference (List)] page will be displayed.

- If executing searching, the only displayed results will be output into CSV file. Please refer to “In Case of Executing Searching” in “2.13.2.7 Data Reference Display” about searching procedures.

2 Click on the [CSV Output].

Confirmation message will be displayed.

<Output into CSV files.>

- The displayed data is output to CSV file.

3 Click on the [Yes] button.

Confirmation message including header information is displayed in the output file.

4 In case of including the header information, click on the [Yes] button. If not, click on the [No] button.

Confirmation message about whether to save the file will be displayed.

5 Click on the [Save] button.

Confirmation message about whether to save the file will be displayed.

6 Specify where to save the file and click on the [Save] button.

File will be output to the CSV file.

2.13.2.9 HTML Output

Output the search result into HTML file.

1 Click on the data reference name in the data reference list.

[Data Reference (List)] page will be displayed.

- If executing searching, the only displayed results will be output into HTML file. Please refer to “In Case of Executing Searching” in “2.13.2.7 Data Reference Display” about searching procedures.

2 Click on the [HTML Output].

Confirmation message will be displayed.

<Output into HTML file>

- The displayed data is output to HTML.

3 Click on the [Yes] button.

Confirmation message about whether to save the file will be displayed.

4 Click on the [Save] button.

Confirmation message about whether to save the file will be displayed.

5 Specify where to save the file and click on the [Save] button.

File will be output to the HTML file.

2.13.2.10 Authorization Setting

Configure access right to data reference.

- When creating data reference, you can not configure the authorization. In case of configuring the authorization, please make these procedures when you update the data reference.

1 Select the database name in the [DB Connection Reference].

Queries existing in the database will be displayed in a list.

<Select a database to connect.>

2 Click on the setting button on the data edit line.

[Data Reference Edit] page will be displayed.

<Select the data reference to configure the authorization.>

3 Click on the [Authorization Setting].

[Authorization Setting] page will be displayed.

<Click on the [Authorization Setting].>

4 Click on the [Add] button of each item to configure the authorization.

Search page of each item will be displayed.

<Click on the [Add] button.>

- If canceling the configured authorization, check on the check box of the items to be deleted and click on the [Delete] button of the items.

Role

Select or enter the role as the access right. When clicking on the [Add] button, the following window will be displayed, in which you can select the registered role. In this window, code of each role will be displayed.

Organization

Select or enter the organization as the access right. When clicking on the [Add] button, the following window will be displayed, in which you can select the organization. The organization can be displayed in tree view or list view. In this window, code of the company or organization will be displayed.

Position

Select or enter the position as the access right. When clicking on the [Add] button, the following window will be displayed, in which you can select the position. In this window, code of the position will be displayed.

Public Group

Select or enter the public group as the access right. When clicking on the [Add] button, the following window will be displayed, in which you can select the public group. The public group n can be displayed in tree view or list view. In this window, code of the public group will be displayed.

5 Click on the[Update] button.

Confirmation message will be displayed.

<Configure the authorization.>

6 Click on the[OK] button.

Confirmation message will be displayed.

7 Click on the [OK] button.

The authorization will be registered.

2.13.2.11 SQL Display

Display the SQL of the selected data reference.

- Data reference types to display the SQL are “List Tabulation” and “Summary Tabulation“.
  Data reference of “Cross Tabulation” and “Chart Aggregation” cannot display SQL.

1 Click on the setting button of the data reference to display the SQL in the data reference list.

Display the [Data Reference Edit] page.

<Select data reference to display the SQL.>

2 Click on the[Display SQL].

[SQL Review] page will be displayed.

<Display the SQL.>

3 Confirm the SQL.

<Confirm the SQL.>

2.13.2.12 Preview

Preview the selected data reference.

1 Click on the setting button of data reference to be previewed in the data reference list.

[Data Reference Edit] page will be displayed.

<Select the data reference to be previewed.>

2 Click on the [Preview].

[Preview] page will be displayed.

<Click on the [Preview].>

3 Confirm the preview.

If the data reference is “Cross Tabulation” or “Chart Aggregation”, please confirm the preview at this point.

If the data reference is “List Tabulation” or “Summary Tabulation”, please confirm the preview after you enter the searching condition and refine the data.

<Confirm the preview.>

■In case of executing searching

You have to execute searching if the data reference type is “List Tabulation” or “Summary Tabulation” and you need to refine the data.

1 Configure the display items.

<Configure the display items>

[Add>>] Button	Add an item to be displayed in the search result column. If you select the item from the left-side list and click on the[Add>>] button, the selected item will move to the right-side list.
[<<Delete] Button	Delete n item to be displayed in the search result column. If you select the item from the right-side list and click on the[>>Delete] button, the selected item will move to the left-side list.
[Up] Button	Move the displayed line of the selected item up to the next level. If you select the item from the right-side list and click on the[Up] button, the selected item will move up to the next level.
[Down] Button	Move the displayed line of the selected item down to the next level. If you select the item from the right-side list and click on the[Down] button, the selected item will move down to the next level.

- A column configured as “Grouped” in terms of display column setting can be deleted (hided) by the summary tabulation, but not by the list tabulation. Please refer to the “2.13.2.1 Creating Data Reference” about the details of display column setting.

2 Enter the search conditions.

<Enter the search condition.>

- The displayed search items are configured in the “search setting”. Please refer to “2.13.2.1. Creating Data Reference” about search setting.

3 Click on the [Display] button.

The search result will be previewed in the screen page.

<Preview the search result.>

2.13.3 Various Settings

ViewCreator has various configurable items in tune with the operational environment.
In order to make the setting valid after you edit the setting files, you have to restart Application Runtime.

[Setting File]
<%intra-mart Install Directory%>/conf/parameter.xml

2.13.3.1 Performance Tuning in CSV Output

(*This setting will become valid after adopting patch 1)

If the number of the output records is too many when outputting CSV files in “List Tabulation” or “Summary Tabulation”, it is possible that CPU resource will run down depending on the spec of the server machine (in which Application Runtime runs) or the condition of the other process.
As the result of this, the request from the other users might enter the wait state for a long time until terminating the CSV output processing.

In order to avoid such a situation, configure the two additional parameters as follows. You can execute the other process by opening the CPU resource with adjourning the CSV output process at a regular interval.
If making the downtime longer or making the interval of the downtime shorter, more CPU resource will be opened, but the execution time for CSV output process will be longer. Please configure an adequate value according to the environment.

Parameter Name	Setting Value	Description
vc.output.sleep.record.count	Record Number	Adjourn the download process. Configure the interval (record number). In other words, the process will be adjourned every time when records of the configured numbers are read in the download processing. By default, it is not adjourned.
vc.output.sleep.time	Downtime	Configure the downtime. Unit is milli-second.

Configuration Example)

```
<param>
    <param-name>vc.output.sleep.record.count</param-name>
    <param-value>1000</param-value>
</param>
<param>
    <param-name>vc.output.sleep.time</param-name>
    <param-value>500</param-value>
</param>
```

Download processing is adjourned for 0.5 second every time when reading 1000 records.

2.14 Table Maintenance

In TableMaintenance, you can register, update and delete the existing table in the database. You can easily operate master maintenance function with simple setting operation, which is often required when creating an application with using database. Login group administrator can configure the access right toward the tables for maintenance in order to control the table which the general users can refer to. TableMaintenance deals with login group database and system database.

There are two kinds of TableMaintenance operation as follows.

Table Controlling	Add the table on the database as the maintenance target. In addition, you can limit some users who can handle the table by setting access right. This is done by “Login Group Administrator”.
Data Editing	Users given an access right by the administrator can add, update or delete the data.

< TableMaintenance Concept>

2.14.1 Controlling Tables

Enable the table on the database to be added, updated and deleted with TableMaintenance.

2.14.1.1 Adding Tables

Add the existing table on the table as maintenance target (adding a table).

1 Click on the [Table List] from the [TableMaintenance].

[Table List (for administrator)] page will be displayed.

<[Table List (for administrator)] page>

2 Click on the [Add Table] in the [Table List (for administrator)] page.

<Click on the [Add Table].>

[Table Select] page will be displayed in an additional window.

<[Table Select] page>

3 Select the access point of the database in [DB Connect Reference].

A list of the database table will be displayed.

4 Click on the [Physical Name of the Table].

Setting page of the selected table will be displayed.

<[Table Setting] page>

Return to the Table Select Page	Return to the [Table Select] page.

Table Display Name Setting	Return to the setting related to the table name.
DB Connection Reference Name	DB connection reference name which the selected table belongs to is displayed.
Table Physical Name	Name on the database of the selected table is displayed.
Table Display Name	Name a table on the TableMaintenance function (configure understandable Japanese name). By default, a table name on the database will be displayed.
Column Display Name Setting	Configure the name of the table on the TableMaintenance function or the column order. Configured column order is reflected in the display order of the columns in “Table Reference Page” and the display order of the items in “Table Edit Page”.
[Top] Button	If checking the check box a the head of the column and clicking this button, you can make the checked column located at the top level.
[Up] Button	If checking the check box a the head of the column and clicking this button, you can make the checked column located at the next upper level.
[Down] Button	If checking the check box a the head of the column and clicking this button, you can make the checked column located at the next lower level.
[Bottom] Button	If checking the check box a the head of the column and clicking this button, you can make the checked column located at the bottom level.
(Check Box)	This is used for selecting a column when changing the display order. You can select multiple columns.
Column Physical Name	Physical name of the query is displayed.
Column Display Name	Name a column (field) on the TableMaintenance function (configure understandable Japanese name). By default, a field name on the database will be displayed.
Authorization Setting	Configure the access right to the tables. Users who have access rights can refer the table and register, update and delete the data. If the access right is not configured all users can access. In order to configure the access right, select “Role”, “Organization”, “Position” and “Public Group”, click on the [Add] icon, and enter the information. Followings are the description of each tab.
Role	Select or enter the role as the access right configured in this table. When clicking on the [Add] button, the following window will be displayed, in which you can select the registered role. In this window, code of each role will be displayed.

Organization

Select or enter the organization as the access right configured in this table. When clicking on the [Add] button, the following window will be displayed, in which you can select the organization. The organization can be displayed in tree view or list view. In this window, code of the company or organization will be displayed.

Position

Select or enter the position as the access right configured in this table. When clicking on the [Add] button, the following window will be displayed, in which you can select the position. In this window, code of the position will be displayed.

Public Group

Select or enter the public group as the access right configured in this table. When clicking on the [Add] button, the following window will be displayed, in which you can select the public group. The public group n can be displayed in tree view or list view. In this window, code of the public group will be

displayed.

Add Icon	A search page such as role, organization, position and public group to configure the authorization is displayed in an additional window.
Delete the Selected Item	Delete the checked item.
/ Display Code	Switch on and off the displayed item code.

5 After you enter the table setting, click on the [Save] button at the bottom of the page.

[Save] Button	Save the setting information of the tables.

After saving, edit page of [Table Setting] page will be displayed.

<Editorial page of [Table Setting]>

6 In order to add the other table, click on the [Return to the Table Select Page]. In order to complete the table setting, click on the [Close].

2.14.1.2 Authority of Editing Tables for General Users

In order to enable the general users to edit the table, you have to configure the access right of the users with the following procedures.

1 Configure the authorization of the folder and menu (TableMaintenance, TableMaintenance/Table List) in menu maintenance page.

The following items are added to the menu of the general users.

TableMaintenance
TableMaintenance/Table List

<Example of the setting in menu maintenance page>

2.14.1.3 Updating Table Settings

Table setting registered in the table list of TableMaintenance can be changed in the following procedures.

1 Click on the [Table List] in [TableMaintenance] menu.

[Table List (for administrator)] page will be displayed.

<[Table List (for administrator)] page>

2 Click on the icon in the setting field in[Table List (for administrator)] page.

<Click on the setting icon.>

[Table Setting] will be displayed in an additional window.

<Edit page of [Table Setting] page>

3 Click on the [Save] button after changing the setting.

The setting will be saved.

2.14.1.4 Deleting Table from Maintenance List

In order to delete the added table from the maintenance targets, please operate as follows.

1 Click on the [Table List] from [TableMaintenance] menu.

[Table List (for administrator)] page will be displayed.

<[Table (for administrator)] Page >

2 Click on the icon in the setting field in[Table List (for administrator)] page.

<Click on the setting icon.>

[Table Setting] will be displayed in an additional window.

<Edit page of [Table Setting] page>

3 **Click on the [Delete] button in the displayed [Table Setting].**

The selected table will be deleted from the list.

2.14.2 Editing Data

The administrator or general users can add, update or delete data of the table, which the administrator registered to the table list and provided the access right with.

2.14.2.1 Adding Data to Tables

1 Click on the [Table List] from [TableMaintenance] menu.

[Table List (for administrator)] page will be displayed.

<[Table List (for administrator)] page >

2 Click on the table display name in [Table List (for administrator)] page.

<Click on the table display name.>

[Table Reference] will be displayed.

<[Table Reference] page>

3 Click on the [Register New] in the [Table Reference] page.

[Table Edit] page will be displayed.

<[Table Edit] page>

4 **After filling each column, click on the [Register] button.**

"Registered" will be displayed in the top of the screen page.

<[Table Edit] page>

2.14.2.2 **Editing Data in Tables**

1 **Click on the [Table List] from [TableMaintenance] menu.**

[Table List (for administrator)] page will be displayed.

<[Table List (for administrator)] page>

2 Click on the table display name in [Table List (for administrator)] page.

<Click on the table display name>

[Table Reference] page will be displayed.

<[Table Reference] page>

3 Click on the icon of the record edit in the [Table Reference] page.

[Table Edit] page will be displayed.

<[Table Edit] page>

- The items which shoes “PK” in the page are fields for “main key”. You can not edit these.

4 After editing the contents of each column, click on the [Update] button.

“Updated” will be displayed in the top of the screen page.

<[Table Edit] page>

Column

Editable Field Type

In table maintenance function, data is dealt as character string type, number value type and date type. The corresponding relationship of the database field type is shown as follows.
You can not edit the binary data.

	Character String Type	Number Type	Date Type
Oracle	CHAR, VARCHAR2	NUMBER	DATE, TIMESTAMP
SQLServer	char, varchar	bigint, int, smallint, tinyint, numeric, decimal	datetime
DB2	CHAR, VARCHAR	SMALLINT, INTEGER, BIGINT, DECIMAL, FLOAT, REAL, DOUBLE	DATE, TIMESTAMP
PostgreSQL	char, varchar	numeric	date, timestamp

* In case of dealing with timestamp type, configure the following setting as true in conf/imart.xml.
intra-mart/platform/service/application/database/data/timestamp-is-date

Change the various settings

You can configure the following settings in conf/parameter.xml.

tm.list.records_per_page
Configure the line number of the table list of the table select page and the record list of the table reference page, displayed in one page.

tm.column.maxlength
Determine the display format of the character-string-type column in table edit page based on the configured number value at this point.
If the size of the column is smaller than the configured value, it is displayed in a text field. If the size is larger, it is displayed in a text area.

tm.date.format
Specify the display format of the date-type column in the table reference table.
*However, the input format in the table edit page is fixed as “yyyy/MM/dd HH:mm:ss”.

2.14.2.3 Deleting Data in Tables

1 Click on the [Table List] from [TableMaintenance] menu.

[Table List (for administrator)] page will be displayed.

<[Table List (for administrator)] page>

2 Click on the table display name in [Table List (for administrator)] page.

< Click on the table display name>

[Table Reference] page will be displayed.

<[Table Reference] page>

3 Click on the icon of the record edit in the [Table Reference] page.

[Table Edit] page will be displayed.

<[Table Edit] page>

4 After confirming the contents, click on the [Delete] button.

Data will be deleted.

2.15 Event Navigator

Event navigator is a menu to create a page in the wizard mode to lead an screen page approach such as application which branches intricately.

The following example shows a sample to lead an adequate application based on the company house regulation. You can obtain the most suitable application document only by answering the displayed questions.

<Outline of event navigator>

2.15.1 Creating Event Navigator

2.15.1.1 Registering Event Flow

The first step to create an event navigator is to register the setting information such as title or access right. These information are called as event flow.

- You can configure access right about the title, answer and link, but if you do not configure access right about any items, they are displayed to all the users.

1 Click on the [Event Navigator List] under the [Event Navigator Control].

[Create Event Navigator] page will be displayed.

<[Creating Event Navigator] page>

2 Click on the [Register New] in order to create a new event navigator.

[Register Event Flow] page will be displayed.

<Select [Register New] and create an event navigator>

Title	Enter a title of the event navigator to be created.
Locale	This is corresponding to multiple languages. In case of multi-lingual operation, you have to switch this locale and describe the contents (title and comment) by each language.
Comment	Enter the description about this event navigator.

3 Select [Role], [Organization], [Position] and [Public Group] to configure the access right.

Configure the access right which can be used by the event navigator to be created.

<Configure the access right>

[Role] Tab	Select or enter the role as the access right configured as this event navigator. You have to enter the start date and end date for the role setting. When clicking on the [Add] button, the following window will be displayed, in which you can select the registered role. In this window, code of each role will be displayed.

[Organization] Tab

Select or enter the organization as the access right configured as this event navigator. When clicking on the [Add] button, the following window will be displayed, in which you can select the organization. The organization can be displayed in tree view or list view. In this window, code of the company or organization will be displayed.

[Position] Tab

Select or enter the position as the access right configured as this event navigator. When clicking on the [Add] button, the following window will be displayed, in which you can select the position. In this window, code of the position will be displayed.

[Public Group] Tab

Select or enter the public group as the access right configured as this event navigator. When clicking on the [Add] button, the following window will be displayed, in which you can select the public group. The public group n can be displayed in tree view or list view. In this window, code of the public group will be displayed.

[Add]

Add an access right related to the selected tab

[Delete Selected Item]

Delete the selected access right.

[Display Code]

Display a code column in the displayed access right list.

4 Click on the [Register] after registering the access right.

After the event flow is registered, the screen page will return to the [Create Event Navigator] page again.

<Register the event navigator>

[Register] Button	Register the input event navigator.

2.15.1.2 Editing Event Navigator

Create an event navigator about the created event flow.

1 Click on the title of the created event navigator in [Create Event Navigator] page.

<[Create Event Navigator] page>

Register New	Create a new event navigator.
Import/Export	Import or export the created event navigator. Please refer to “2.15.2 Import and Export” about the details.

Change Display Sequence	[Display Sequence Setting] page will be displayed, in which you can edit the display sequence of the event navigator.
Title (Search)	Search the registered event navigator with match partial retrieval about the title name.
Delete	Delete this event navigator.
Edit	[Event Flow Edit] page of this event navigator will be displayed, in which you can edit the title or access right.
Copy	Copy this event navigator.
Title	Edit page of the event navigator will be displayed, in which you can edit.
Display	You can not open the event navigator even though you created. After you complete editing, please click on this button to display “Released”.

2 Edit a question as <Untitled>. Select [Edit] in the menu displayed by clicking.

<Edit the first question>

3 Enter the contents of the question, and click on the [Register] button.

<Edit the contents of the question>

Locale	This is corresponding to multiple languages. In case of multi-lingual operation, you have to switch this locale and describe the contents (title and comment) by each language.
Question Content	Register the content of the question.
Comment	Enter the description about this question.
[Register] Button	Register this question.

4 Register the answer of the edited question. Select [Add Answer] in the menu displayed by clicking the question's title.

<Add an answer of the first question>

- There is a [Save] button in the edit page of the event navigator. You can save the contents by clicking this button although it is uncompleted.
- If the flow is under processing (uncompleted), you can not open the information to the general users.

5 In order to edit the answers, you have to enter the answer as well as specify the processing after the answer. Click on the [Register] button after inputting all the information.

<Edit an answer>

- You can configure the access right about the answer.

Locale	This is corresponding to multiple languages. In case of multi-lingual operation, you have to switch this locale and describe the contents (title and comment) by each language.
Question Content	Display a content of the question.
Answer	Enter an answer as a choice toward the question.
Comment	Enter the description about this question.
Next Flow	Select the Next Flow after answering the question from “question” and “ result”.
Answer	Move to the next question after answering.
Result	Move to the result page after answering.
[Register] Button	Register this question.

2.15.1.3 **Next Flow is [Question]**

If you select [Question] as the next flow, the next question will be deployed. Continue the process as mentioned above.

<Next flow was created>

2.15.1.4 **Next Flow is [Result]**

If you select [Result] as the next flow, the next question will be deployed under the answer as following figure.

<Next flow was created>

1 **In case of result, you have to select [Edit] at first. Enter the [Result Title] in the displayed page and click on the [Register] button.**

<In case of selecting edit>

Locale	This is corresponding to multiple languages. In case of multi-lingual operation, you have to switch this locale and describe the contents (title and comment) by each language.
Previous Question	The content of the previous question is displayed.
Answer	The selected answer is displayed.
Result Title	Enter the title of the item displayed as the result.
Comment	Enter the description about the question.
[Register] Button	Register this question.

2 **Next, select [Link Edit]. Register the page information of the next flow at this point. You can register the multiple next flows and switch them depending on the access right.**

<Select the link edit>

Result Title	Result title registered in “Edit” is displayed.
Add	Link edit page will be displayed, in which you can create a new link.
Change Display Sequence	Change the display order of the link destination.
Delete	Delete the link.
Edit	Edit the link information.
Authorisation	Configure the authorization of this link.

3 **If clicking on the [Add], [Link Edit] page will be displayed. At this point, register the page information of the next flow. You can register the multiple next flows and switch them depending on the access right.**

<Select link edit>

Locale	This is corresponding to multiple languages. In case of multi-lingual operation, you have to switch this locale and describe the contents (title and comment) by each language.
Result Title	Result title registered is displayed.

Link Title	Enter the title displayed in the event navigation.
Comment	Enter the description about the link.
URL	Enter the URL of the destination.
Parameter (Key/Value)	Register the parameter given to the link destination.
[Register Parameter] Button	If clicking on this button, the above-mentioned parameters can be registered. You can register the multiple parameters.
[Register] Button	Register the link.

2.15.1.5 Moving and Copying Answer Items

You can move an answer item by dragging.

<Move an answer item by dragging>

You can select to move or copy by dropping the answer item on the question.

<Select to move or copy>

2.15.2 Import and Export

You can export an event flow into XML file and import adversely.

Specify each XML file path and click on the [Import] or [Export] button.

<Import and export page>

intra-mart WebPlatform/
AppFramework

Chapter 3 General Users

3.1 intra-mart – Login and Logout

Since intra-mart is a Web-based development tool, the activation and termination methods are different from those of a normal computer program. With a Web-based application, the user can use a web browser to “login” and use the system, and “logout” to end the usage session.

3.1.1 Login as General Users

General users login into the intra-mart system in the following manner.

1 **Start up a browser and key-in the intra-mart URL as shown below.**

The intra-mart login screen will be displayed in the screen page.

intra-mart WebPlatform(standalone):http://machineaddress:8080/imart/(login group ID).portal
intra-mart WebPlatform(distributed system):URL matched to the registered information of web server connect
intra-mart AppFramework:URL matched to the content of intra-mart registered with the web application server

- If intra-mart WebPlatform is operated in stand-alone mode, the port number of URL (port number for the web server) can be specified at the time of installation.
- It is recommended to bookmark the URL for future reference.
- The users can also “Auto Authentification without using Login Screen” (refer to P.132 Column).

2 **Enter user code and password on the login screen, and click on the [Login] button.**

Initial State

In case of configuring global portal
(The layout depends on the configuration)

<intra-mart login screen>

<intra-mart initial default page – Group portal and organization portal are set on this page>

- The main page of the initial default page (within the right frame) is a portal screen. By creating new portlets and register them at the portal function, various information can be displayed by default. There is also a “User Portal” that allows each user to create a portal for his/her own use. Please refer to “3.4 Using Portal” for further details.

3.1.2 Logout from intra-mart

Going back to the login screen will cause the user to logout from intra-mart and terminate the session. Click on the [LOGOUT] button at the top of the menu on the left side of the screen to go back to the login screen.

- If the user closes the browser or leaves the intra-mart pages without clicking on the [LOGOUT] button, the intra-mart server will consider the user status as “log-in” until the session has timed out. Please do not forget to click on the [LOGOUT] button

3.1.3 Change Password

The default password issued by the Login Group Administrator can be changed at the user page using the [Change Password] function under [User Setting].

<Changing password>

- Please refer to the “8. Using i-mode” in this chapter on how to change mobile password.

Column

Auto Authentification without using the Login Screen

The user code and password can be included in the login URL of intra-mart as shown below.

http://intramart/imart/(logingroupID).portal?im_user=xxxx&im_password=yyyy

xxxx：user code　　yyyy：password

This way, the user can auto authenticate without going through the login screen.

Column

Control of Track Record of Password

You can control track record of password by setting　This function is set up by administrator.　If this function is set up, the screen of changing password would be automatically displayed when logging in according to the conditions configured by administrator.

Also, for general users, there is a function which provides a service for users to receive notice of　changing password in advance.　You can make setting about how many days before you would like to receive the notice, with [User Setting]-[Attribute Setting] This function is displayed only when control of track record of password is being operated.

Column

Shortcut Access Function

There is a function called ‘Shortcut’ function which provides a service which displays an arbitrary screen on the main screen when starting up Access, It can not be composed by general users, but shortcut including arbitrary URL among the programs can be generated.　When a user who have received it, clicks on this shortcut, the

screen will be displayed on the intra-mart screen.

The function of Shortcut which displays arbitrary screens, includes various options. For example, going through login screen, abbreviating showing login screen, validating certain time period and so on. Please refer to 'Programming Guide' for further details.

3.1.4 Double Login Prevention Function

There is a function which prevents double login(default: invalid) in intra-mart. You can make shift in validity or invalidity.

If the function of double login prevention is in valid, second and after sessions will become invalid, and will become impossible to login. Thus, it is necessary to invalidate valid sessions in order to login.

By setting double login prevention function, general users can also invalidate unnecessary sessions on their own.

If double login is detected, the screen below is displayed.

<A screen page which is configured as invalidating unnecessary sessions on your own>

<A screen page which is configured as only to notice double login >

In case of setting as only to notice double login, you can not continue your operation as it is. You can try followings to continue your operation.

- Continue your operation with valid sessions.
- Logout from valid sessions, then click on [Retry] button as shown in the above screen.
- Wait for valid sessions to time out, then click on [Retry] button as shown in the above screen.
- Request login group administrator to invalid valid sessions, then click on [Retry] button as shown in the above screen.

3.2 Menu Structure and Basic Screen of intra-mart

intra-mart's menu display format is made up of "Folder" as a major division and "Page". A specific page will be displayed when it is selected. The availability of any folders and pages to the login user will depend on the access rights assigned to the user.

<Relationship between folders and pages>

3.2.1 Displaying Menu

intra-mart's menu is displayed in a tree structure at the left frame of the screen. If a "Folder" as major division is clicked, all the "Pages" under the folder will be displayed on the tree. Here if a "Page" is selected, the content of the page will be displayed.

<Example of menu display page>

3.2.2 intra-mart's Home Page

Home page is the initial default page first displayed when a user login into intra-mart. If the user had navigated to other screens through selection of the menu items, clicking on the [HOME] button in the upper left corner of the screen will bring the user back to the Home page.

The user can switch over to the intra-mart's portal screen from the home page, by using the tab located at the upper-left of the right frame screen.

[HOME]Button	It is for returning to the Home page. The Home page is the default page that is displayed when the user login into intra-mart. You can also switch to a portal screen (if there are any) from the Home page.
[LOGOUT]Button	Terminate intra-mart session and return to the Login screen.
[MENU ON/OFF]Button	Turn ON/OFF the menu on the left-hand side. Once the menu is OFF, the working screen becomes more spacious and easier to work on. This function is available only if the user is using the Internet Explorer browser.
[Portal Switch] Tab	To switch over to existing portal screens. Please refer to '3 .4 Using Portal' for the details on portal screens.

3.2.3 Locale Setting

Since intra-mart is compatible to multi-languages, the users can select the preferred language of choice. For example, while using the same intra-mart application, in overseas representative offices, it is possible to display pages in the local language of the country. Although by default most of applications support only Japanese, the applications on intra-mart also require this function. The language setting can be done at the [Locale Setting] page under [User Settings].

<Locale setting for selection of language>

3.2.4 Main Page Pattern Setting

Main Page Pattern is a function that allows the user to switch to other non-standard page designs (if any). The switching can be done using the [Main Page Pattern Setting] under [User Settings]. By default, there are 2 designs of main page patterns such as V6.0 as new design and V5.x.

<Main page design can be changed at the main page pattern page>

3.2.5 Color Pattern Setting

Color Pattern is a function that allows the user to change only the intra-mart's default screen colors. By default, intra-mart is equipped with 5 color shades of blue, gray, green, orange, and red. Initially, it is set up as "Use System Default". This is the common color pattern for the login group set by the Login Group Administrator. However, the color pattern selected by a user on this setting page is used as priority over the default.

<Color patterns to change design of page>

3.2.6 Setting Menu Folder Display

When selecting menu folder, you can set up whether or not to display all the menu lists included in the folder and their brief summaries. By default, it can be operated by opening and closing menu tree.

<Screen page which is set as menu folder display function>

Menu folder display is set up in the screen page of [Attribute Setting] under [User Information]

<Screen page which is set as menu folder display function>

3.3 How to Use My Menu

Users can create an original menu for the most-commonly used page, by registering the page using “My Menu”. If the most-commonly accessed pages are made into a list using this function, it is possible to have very quick access to these pages with just one click on the tree-display of the list without searching through the standard page menus, making it much more efficient to use the application.

My Menu allows each user to choose from pages that he/she is authorized to use and create his/her own settings.

You can configure where to display in [Attribute Setting] under [User Setting].

< My menu and reload icons>

- My Menu cannot be used to change the setting of other users, nor can the administrator change the My Menu setting of any specific user.
- “Menu link”, a portlet to display a common menu in the portal page is also prepared.

3.3.1 Setting up My Menu

Each individual user can use the [User Settings] – [My Menu Setting] page to set up My Menu.

1 Select [User Settings] – [My Menu], and click on [Add My Menu].

A list of pages the login user is authorized to use will be displayed.

2 Check on the pages to register to My Menu, then click on the [Add] icon.

3 At the page listing out the selection for My Menu, configure the display name and display sequence of the menu, then click on the [Update] button.

Check the unnecessary pages and click on the [Delete] icon to remove the pages.

(Check Box)	Users can remove a page from My Menu by checking this box and click on the [Delete] button.
Icon	You can add prepared icons to my menu.
Alias	This is the menu name displayed under My Menu. The display name can be changed freely.
Page	This is the menu name of the displayed page.
Sort	The user can control the menu's display sequence by entering a Sort number.

4 If adding an icon to my menu, click on the icon space in each menu.

<Displayed my menu and reload icons>

5 Click on the preferred icon in the image icon select page.

Click on the [Default Setting] if restoring the icon.

< Displayed my menu and reload icons>

6 Reload button will be displayed on the menu after setting is completed. Click on the Reload button to display the updated My Menu.

< Displayed my menu and reload icons>

3.4 How to Use Portal

The standard intra-mart comes with a function that automatically displays a pre-assigned page (called “portlet” in portal application) on the default login screen (intra-mart home page) so as to draw the users’ attention to specific information. This portal function is achieved by using intra-mart portal modules.

Rate of information throughput within the organization can be improved by setting portal sites for each department and individual portal sites.

Service level in EC site and market place can be greatly improved through setting portal site for each company (customer/partner).

<”Company/Organization” portal and “User” portal>

At First, create the information pages of each application on intra-mart that are to be displayed and register them as portlet. These become usable portlets, and they can be freely laid-out to form up the portal screen. In addition, some of the intra-mart applications, such as Workflow Module and WebMail, are already pre-installed with portlet screens.

ログイン
intra-martにログインすると、初期画面にポータル画面が表示される

ポートレット配置
登録したポートレットをポータル画面に配置する

ポートレット登録
各アプリケーションで作成したページを「ポートレット設定」画面でポートレットとして登録する

3.4.1 Portal Types and the Creation Menu

intra-mart is pre-installed with 4 types of portal screens as given in the table below. The main difference between these portals is their target users. While some of them are to be viewed by all the login group members, others may be for particular individuals. By configuring the access rights, it is also possible to display the portal screen just for a specific set of users. It is also possible to create multiple numbers of portals as long as it is not the global portal.

Portal Type	Display Place	Creator	Basically Display Area	Access Right Setting
Global Portal	Page before login	Login Group Administrator	All the login group members	None
Group Portal	intra-mart homepage (as a tab)	Login Group Administrator	All the login group members	Company/ Organization Public group Role
Organizational Portal	intra-mart homepage (as a tab)	General User, Organizational Portal Administrator	Organization which the developer mainly belongs to (excluding the lower organizations)	Lower organization
User Portal	intra-mart homepage (as a tab)	General User	Developer	None

3.4.1.1 Portals on Login Page

Global portal is a portal that is viewed by all the login group members and comes with no access right restrictions. Since this portal will be displayed on the default login screen, it comes with a login portlet.

<Global portal>

3.4.1.2 Portals displayed on intra-mart Home page

Group portal, organization portal, and user portal will be displayed on the intra-mart home page. Each portal is displayed as a tab, and can be easily switched from one to another. In addition, the user can click on the [HOME] button on every intra-mart screens to go back to the home page.

<intra-mart's home page. Switching among the 3 portals is possible using tabs>

Portlet provided by default

Portlet Name	Application	Recommended Displayed Line Number	Notes
Link Page		Less than 3 lines	
Login Portlet		Less than 3 lines	Configured only by global portal
Asahi Shinbun RSS		Less than 3 lines	
New Task	Workflow	Less than 3 lines	
Important Announcement		Less than 3 lines	Display the information about password administration

Portlet attached with intra-mart application

Portlet Name	Application	Recommended	Notes
This Week's Schedule	Start Pack	Less than 2	
Today's Schedule	Start Pack	Less than 3	
List of New To-do	Start Pack	Less than 3	
New Favorite	Start Pack	Less than 2	
New Delivered	Start Pack	Less than 3	
New Community	Start Pack	Less than 3	
New Estimate List	Business Support	Less than 3	
New Order Entry List	Business Support	Less than 3	
New Business Daily	Business Support/ Start	Less than 3	

Master's New Comment	Business Support/ Start	Less than 3	
Newly Arrived Mail	WebMail	Less than 3	

3.4.2 Creating a User Portal

User portal is a portal for the user him/herself. This portal will be displayed as a tab on the intra-mart's login screen (Home page). The user can create multiple numbers of original portals using the Portlets setup by the Login Group Administrator.

1 Click on the [User Portal].

A list of registered User portals will be displayed.

<List of the users' portals>

2 Click on the [Register New].

The page for selection of Portlet layout will be displayed.

3 Select a Portal design and click [Next].

If "customize" layout is selected, please refer to the following column on "Customizing Portal Layout".

<Portal layout selection page>

4 Place the portlets within the displayed layout slot, and click on the [Next] button.

Select a portlet from the [Available Portlet] at the top, and place it in the desired layout slot by clicking on the icon of the slot. Within the layout slot, the user can change the display sequence of the portlets using the and icons, or delete any portlet using the icon. In addition, the actual portal screen can be viewed while editing the layout of the portal by clicking on the preview icon.

<Arranging the portlets>

5 Key-in the name and description of the portal in the Basic Setting page, and click on the [Finish] button.

The screen page goes back to the Portal List

<Name the configured page.>

6 The screen page goes back to the Portal List. At this point, the new User portal has been created.

Click on the [HOME] button to display the User portal tab.

<Portal list>

- Go to [Display Portal] Page under [Portal] to change the display sequence of the tabs.

Column

Customizing Portal Layout

Although the Portal Layout Selection page comes with default layout patterns, the user can customize the layout freely by selecting “Customize” at this page.

① Select “Customize” and click on the [Next] icon.

② Set the basic layout (up to 5x5) by dragging with the mouse.

③ Create the customized layout pattern by combining cells, adding/deleting columns and rows.

④ Click on the [Next] icon to go to the Portlet Layout page.

3.4.3 Organization Internal Portal

An organization internal portal can be displayed only in the screen page of the users belonging to the same organization as its creator (primary affiliation). It is also possible to assign access right to the sub-divisions under the organization. Organization internal portal is displayed on the intra-mart's Home page.

- The organization Internal portal menu will be displayed in the screen page of users authorized by the Login Group Administrator. This menu is not necessarily available to everyone.

1 Click on [Organization Internal Portal].

A list of registered portals will be displayed.

<List of group portals>

2 Click on [Register New].

The page for selection of Portlet Layout will be displayed.

3 Select a portal design and click on [Next].

If "customize" layout is selected, please refer to the previous column on "Customizing Portal Layout".

<Portal layout selection page>

4 Place the portlets within the displayed layout slot, and click on the [Next] button.

Select a portlet from the [Available Portlet] at the top, and place it in the desired layout slot by clicking on the icon of the slot. Within the layout slot, the user can change the display sequence of the portlets using the and icons, or delete any portlet using the icon. In addition, the actual portal screen can be viewed while editing the layout of the portal by clicking on the preview icon.

5 Key-in the name and description of the portal in the Basic Setting page, and click on the [Finish] button.

The page goes back to the Portal List.

6 Click on the Access Right icon.

7 The page for setting the Access Rights will be displayed. The access right to the organization the creator belongs to has been pre-set. Click on the [Detail] button.

Although access right can be added using the [Search] button, access rights to organizations the creator does not belong to cannot be set from the internal portal.

8 Configure the access rights using conditions like the subordinated organizations and positions.

9 **Return to the Access Right Setting page.**

The configured information will be displayed. Group portal is now completed.

3.4.4 Changing the Display Sequence of Portals

Group portal, internal portal, and user portal are displayed on the intra-mart Home page as tabs. The display sequence tabs can be changed at [Display Portal]. This setting is only valid on the page of the user who sets it.

1 **Click on [Display Portal]. The title of the portals, which are displayed as tabs, will be displayed. Change their display sequence accordingly and click on the [Confirm] button.**

Select a name of a portal and change its display sequence using the and icons.

<Display a portal setting page.>

3.4.5 Simplified SSO

For this function, a Portlet List (set by the Group Administrator as “Use SSO”) will be displayed. Once the account and password are set, the user will be able to log in on the Portal screen without entering the account and password.

<Home page>

< List of the basic SSO Settings>

If clicking on the [Edit] icon, [Simplified SSO Detailed Setting] page will be displayed. Enter the account and password to log in the site designated by the link. Click on the [Register] button after input.

<Simplified SSO Detailed setting page>

- If account and password are not cinfigured, account information registered in intra-mart will be used.

3.5 How to Use Private Groups

intra-mart WebPlatform has a function to create and administrate the private group. Private group can be freely created and administrated by a user. You can also administrate the users by grouping them. Irrespective to the framework of the organization or public group which is configured by the administrator, each user can make group from each stand point. As a positive point to utilize private groups, you can search out a user easily in the user search.

- You can improve the usability of the application by utilizing this function in the specific application that you developed.
- A part of the functions of the separately sold applications (intra-net start patch) correspond to the private group.
- When you run the applications, please use this private group together.
- The specification of the private group is written in the documentation of the application common master.

3.5.1 Registering and Editing of Private Groups

Private groups can be configured by individual user using the [User Settings] – [Private Group Setting] page. You can add and delete a user at this point.

1 Select [User Settings] – [Private Group] page, and click on [Register New].

A list of private groups created by the log-in user will be displayed.

2 Configure the details of the private group, and click on the [Register] icon.

Once registered, the list of private groups will be displayed.

Group Code (Indispensable)	Input the group code.
Name	Input the name of the private group.
Kana	Input the group name in Kana. This is used by the Search function.
Alphabet	Input the group name in English. This is used by the Search function.
Notes	Enter notes/comments.
Sort Key	Control the display sequence of multiple private groups using numbers.

3 Click on the [Edit] button in the affiliated user field on the private group list to register users.

Click on the [Edit] button in the Update/Delete field to edit or delete a group.

4 Click on the [Register New] on the list of affiliated user of the private group.

User Search page will pop up in an additional window.

5 Search for the user and click on the [Confirm] button.

Once registered, the list of the private groups will be displayed.

6 Once a new private group is registered, the list of its affiliated users will be displayed. Here, the affiliated user's display order can be change and addition/deletion of the users can be carried out.

The setting of the Private group is now completed.

Register New	For registering a new user.
(Check Box)	If the [Delete Affiliation] button is clicked with the box is checked, the user is deleted from the group.
Sort Number	Control the display sequence by entering a number. The new setting can be reflected using [Update Sort Number] button.
[Delete Affiliation] Button	Delete the checked user from the group.
[Update Sort Number] Button	Update the display sequence according to the number entered in the Sort field.

3.6 Search Operations

In intra-mart, search page is prepared for users, company, organization, various groups and role. If you add or select these kinds of items, the search window will be displayed in an additional window.

<User search>

- Search Base Date:

Search base date is displayed in the search page associating with recording the master. This search condition can not be changed by the users, but it might be configured as a search condition by transferring the information of the search base date when calling a search page depending on the application.

- Search by keyword:

If you click on the [Search] without a search keyword in the user search page, all the users will be displayed.

3.6.1 User Search

In this part, you can search users from company-organization, company-organization (only main affiliation), public group, and private group as “Search by Group” as well as “Search by Keyword” and “Search by Alphabet Order”. In case of “Search by Keyword” and “Search by Alphabet Order”, the users are searched based on the selected group.

3.6.1.1 Search by Group

This is a tool to search a user by refining the users from company-organization, company-organization (only main affiliation), public group, and private group.

1 Select a group in [Search by Group] combo box and click on the [Display] icon.

Organizations or groups are displayed in a tree view.

<User search page>

2 Select you preferred organizations or groups.

If you check on “Display all the belonging users”, all the users who belong to the organizations or groups under the selected ones.

<Organizations or groups are displayed in a tree view.>

3 Select a user and click on the [Confirm] button.

<Affiliated users are displayed.>

3.6.1.2 Search by Keyword

In [Search by Keyword], you can search a user by specifying a keyword (user code, name) about the groups selected in [Search by Group] (company-organization, company-organization (only main affiliation), public group, and private group).

1 Enter a keyword and click on the [Search] icon.

Keyword can be searched about user code, name and kana-name. The searching process is match partial. If you execute searching without any keywords, all the users will be displayed.

<User search>

2 Select a user and click on the [Confirm] button.

<Search by keyword>

3.6.1.3 Search by Alphabetical Order

As well as search by keyword, you can display a user by classifying in alphabet order about the groups selected in [Search by Group] (company-organization, company-organization (only main affiliation), public group, and private group).

1 Click on “Alphabet Order”.

At this point, the search target is a group selected in the group’s combo box. If it is “A”, all the users whose initial is A will be displayed.

<User Search>

2 **Select a user and click on the [Confirm] button.**

<Search by Alphabet Order>

3.6.2 Company, Organization and Public Group Search

There are two kinds of search method about company or organization searching,. One is to search from “tree Display” and the other is “search by keyword” to search with company or organization name. Public groups are also searched in these procedures.

3.6.2.1 Search by Tree Display

Display a tree view of the company/organization, and select an organization.

1 **Click on the tree display icon in [Company/Organization Search].**

Company/organizations are displayed at the bottom of the screen page.

<Company/Organization search page>

2 **Follow the tree, select the company or organization, and click on the [Confirm] button.**

<Display a company or organization in a tree view.>

3.6.2.2 Search by Keyword

You can execute searching with company-organization code or name in [Search by Keyword].

1 **Enter a keyword and click on the [Search] icon.**

Keyword can be searched about user code, name and kana-name. The searching process is match partial.

<Company/Organization search page>

2 **Select the preferred company or organization and click on the [Confirm] button.**

<Search by keyword>

3.6.3 Private Group Search

Private group is searched with [Search by Keyword]. Since private group does not have a concept of a group, you can not execute searching by tree display.

1 **Enter the keyword and click on the [Search] icon.**

Keyword can be searched about user code, name and kana-name. The searching process is match partial.

<Private group search page>

2 Select the preferred company or organization and click on the [Confirm] button.

<Search by keyword>

3.6.4 Role Search

There are two methods of role search; one is search by category, and another is to search by a role name as “Search by Keyword”. In addition, you can combine these two methods.

3.6.4.1 Search by Category

If roles are classified into the category, you can search it by category. In addition, you can search them by combining the role name as well as categories.

1 Select a category in the combo box in [Role Search], and click on the [Search] icon.

<Role search page>

2 **Select a role and click on the [Confirm] button.**

All the roles belonging to the category are displayed.

<Roles belonging to the category are displayed.>

3.6.4.2 Search by Keyword

In case of [Search by Keyword], you can executing searching by a role name. In addition, you can use a category together.

1 **Enter a keyword and click on the [Search] icon.**

Keyword can be searched by a role name. The searching process is match partial. In addition, you can use a category together. If you execute searching without any keywords, all the categories will be searched.

<Role search page>

2 Select a role and click on the [Confirm] button.

<Search by category and role name>

3.7 Workflow Settings and Operations

intra-mart has a document-type workflow function by default. Document workflow is to accept, deny or remand the application according to the root (called as process) in which the acknowledger was configured in advance. The part to make a process such as application or acceptance is called as task. If you add IM-workflow designer (sold separately) prepared as an extension module of intra-mart to this, you can use complicated acceptance process such as branch or connection. In addition, if you use business process workflow (included in advanced version), you can transfer your operations (operation page) to the next person in charge according to the configured process as well as acceptance or denial, and improve the business efficiency.

- Please refer to “Workflow Guide” (separate volume) about the details of IM-workflow function and its operation.

3.8 ViewCreator

ViewCreator is a tool to enable you to refer various tables and charts created by using data of database (Login group administrator creates the data).

You can also search the date, refine the display items and change the order sequence. In addition, you can output the data as CSV/HTML file.

<ViewCreator>

Column

Creation of query/data reference by general users

By default, only group administrator can create query/data reference. However, general users can also create query or data reference if the group administrator configures necessary authorization.

Please refer to “2.13.1.9 Authority of Creating Queries/Data Reference for General Users” about the details of the authorization setting.

3.8.1 Data Reference List

You can make following tasks with selecting the specified database in data reference maintenance. In data reference, you can refer the data as long as login group administrator configures. In addition, the referred data can be output to the CSV or HTML files.

<Data reference maintenance>

In data reference maintenance, users can operate following procedures.

- Data Reference Display
- CSV Output
- HTML Output

3.8.1.1 Data Reference Display Type

There are following types about data reference display

List Display

Data is displayed in a list.　You can also display the data with searching and refining it.

<List display>

Summary Display

Data is displayed in a summary.　You can also display the data with searching and refining it.

<Summary display>

Cross Display

Data is displayed in a cross table.

- Cross tabulation might tale a time to display depending on the data reference setting or data amount.

<Cross display>

Chart Display

Data is displayed in a chart.　There are four kinds of the charts.

■Bar Chart

<Bar chart>

■Line Chart

<Line chart>

■Pie Chart

<Pie chart>

■Radar Chart

<Radar chart>

3.8.1.2 Data Reference Display

Search the selected data reference and display the data.

- Data references which you can search are “List Tabulation” and “Summary Tabulation”.
  Data reference of “Cross Tabulation” and “Chart Aggregation” cannot be searched.

1 Click on the [Data Reference Maintenance] from the[ViewCreator] menu.

[Data Reference List] page will be displayed.

<Data reference list>

2 Click on the data reference name to be referred from the data reference list.

<Select data reference to be displayed>

- Please refer to “Type of Data Reference Display” about the data reference page to be displayed.

■In case of executing searching

Execute searching if data reference type is “List Tabulation” and “Summary Tabulation” and you refine the data.

1 Click on the [Search].

[Data Reference – Search] page will be displayed.

<Click on the [Search].>

- If search page is configured to be displayed in the same screen page, the search condition will be displayed in the top of the search result of [Data Reference] page.

2 Configure the display line.

<Configure the display line.>

[Add>>] Button	Add an item to be displayed in the search result column. If you select the item from the left-side list and click on the[Add>>] button, the selected item will move to the right-side list.
[<<Delete] Button	Delete n item to be displayed in the search result column. If you select the item from the right-side list and click on the[>>Delete] button, the selected item will move to the left-side list.
[Up] Button	Move the displayed line of the selected item up to the next level. If you select the item from the right-side list and click on the[Up] button, the selected item will move up to the next level.
[Down] Button	Move the displayed line of the selected item down to the next level. If you select the item from the right-side list and click on the[Down] button, the selected item will move down to the next level.

- A column configured as “Grouped” in terms of display column setting can be deleted (hided) by the summary tabulation, but not by the list tabulation. Please refer to the “2.13.2.1 Creating Data Reference” about the details of display column setting.

3 Configure the search condition.

<Configure the search conditions. >

- The displayed search items are configured by login group administrator.

4 Click on the [Display] button.

The screen will return to the [Data Reference(List)] page and show the search result.

<Execute searching.>

3.8.1.3 CSV Output

Output the displayed data into CSV file.

1 Click on the data reference name in the data reference list.

[Data Reference (List)] page will be displayed.

- If executing searching, the only displayed results will be output into CSV file. Please refer to “In Case of Executing Searching” in “3.8.1.2 Data Reference Display” about searching procedures.

2 Click on the [CSV Output].

Confirmation message will be displayed.

<Output into CSV files.>

- The displayed data is output to CSV file.

3 Click on the [Yes] button.

Confirmation message including header information is displayed in the output file.

4 In case of including the header information, click on the [Yes] button. If not, click on the [No] button.

Confirmation message about whether to save the file will be displayed.

5 Click on the [Save] button.

Confirmation message about whether to save the file will be displayed.

6 Specify where to save the file and click on the [Save] button.

File will be output to the CSV file.

3.8.1.4 HTML Output

Output the search result into HTML file.

1 Click on the data reference name in the data reference list.

[Data Reference (List)] page will be displayed.

- If executing searching, the only displayed results will be output into HTML file. Please refer to “In Case of Executing Searching” in “3.8.1.2 Data Reference Display” about searching procedures.

2 Click on the [HTML Output].

Confirmation message will be displayed.

<Output into HTML files.>

- The displayed data is output to HTML file.

3 Click on the [Yes] button.

Confirmation message about whether to save the file will be displayed.

4 Click on the [Save] button.

Confirmation message about whether to save the file will be displayed.

5 Specify where to save the file and click on the [Save] button.

File will be output to the HTML file.

3.9 TableMaintenance

In TableMaintenance, you can register, update and delete the existing table in the database. You can easily operate master maintenance function with simple setting operation, which is often required when creating an application with using database.

General users can register, update and delete the date of table which is maintained by the login group administrator.

Data Editing	Users given an access right by the administrator can add, update or delete the data.

< TableMaintenance concept>

- **Handling of TableMaintenance by General Users**
  Group administrator has to configure necessary authorization in order to enable general users to operate each menu of the TableMaintenance,

3.9.1 Adding Data to Tables

1 Click on the [Table List] from the [TableMaintenance].

[Table List (for administrator)] page will be displayed.

<[Table List (for general users)] page>

2 Click on the [Add Table] in the [Table List (for general users)] page.

<Click on the [Add Table].>

[Table Reference] page will be displayed.

<[Table Reference] page>

3 Click on the [Register New] icon in the [Table Reference] page.

[Table Edit] page will be displayed.

<[Table Edit] page>

4 **After entering in each column, click on the [Register] button.**

"Registered" will be displayed at the top of the screen page.

<[Table Edit] page>

3.9.2 Editing Data in Tables

1 **[Table List (for general users)] page will be displayed.**

<[Table List (for general users)] page>

2 **Click on the table display name in the [Table List (for general users)] page.**

<Click on the table display name>

[Table Reference] page will be displayed.

<[Table Reference] page>

3 Click on the icon of the record edit in the [Table Reference] page.

[Table Edit] page will be displayed.

<[Table Edit] page>

4 After editing the contents of each column, click on the [Update] button.

“Updated” will be displayed in the top of the screen page.

< Table Edit] page>

3.9.3 Deleting Data in Tables

1 Click on the [Table List] from [TableMaintenance] menu.

[Table List (for general users)] page will be displayed.

<[Table List (for general users)] page>

2 Click on the table display name in [Table List (for general users)] page.

< Click on the table display name>

[Table Reference] page will be displayed.

<[Table Reference] page>

3 Click on the icon of the record edit in the [Table Reference] page.

[Table Edit] page will be displayed.

<[Table Edit] page>

4 After confirming the contents, click on the [Delete] button.

Data will be deleted.

3.10 How to Use Event Navigator

Event navigator prepared by the administrator is displayed in [Navigator Title List] of the users who have access right of the event navigator itself. Users can move to a page to be processed only by clicking the title of the event navigator and answering the displayed questions.

<Outline of event navigator>

3.10.1 Executing Event Navigator

Event navigator prepared by the administrator and access by the login users is displayed in [Navigator Title List] displayed in the [Question Page] menu of [Event Navigator].

1 Click on the [Question Page] of [Event Navigator].

[Navigator Title List] page will be displayed.

<[Navigator Title List] page>

2 Click on preferred title in the displayed event navigator list.

Question page of the navigator will be displayed.

<Example of [Question Page]>

3 Select the answer from the prepared answers.

<Example of [Question Page]>

4 The questions will be displayed one after another according to the navigator. You have to select the answer from the prepared answers as well.

History of the answer and question is displayed in the bottom of the screen page.

<Example of [Question Page]>

5 If the result page is displayed, the link of the result page such as application documents will be displayed in the [link List] space.

<Result page of the navigation is displayed.>

6 If you click the [Save] button of the navigation result page, the screen page will move to [Save Navigation Result] page to save the history.

Confirm the title and click on the [Register] button.

<Example of [Question Page]>

7 If you save the navigation result, the screen page will move to [Navigate Control Page (Favorites)] page.

History of the answer and question is displayed in the bottom of the screen page.

Please refer to “3.10.2 Favorites List” about the following [Navigate Control Page (Favorites)] page.

< [Navigate Control Page (Favorites)] page>

3.10.2 Favorites List

Pages saved in the result page are registered in [Favorites List].

<[Favorites List] page>

[History] Icon	Move to the [History List] page.
Title [Search] Button	Click on the [Search] icon after entering the character strings to be searched in the title space. Registered favorites will be searched in match partial.
[Delete] Icon	You can delete the favorite in the corresponding line.
[Edit] Icon	You can edit the title and comment of the favorite in the corresponding line.
Title	Result page of the navigation will be displayed. You can move to each page from the link list of this page.

3.10.3 History List

Result of the [Question Page] is saved as a history in [Record List]. You can change the number of history record to be saved in this page by [Setting Page].

<[History List] page>

[Favorite] Icon (Tool Bar)	Move to [Favorite Page].

[Setting] Icon	Move to [Setting Page].
[Delete] Icon	Delete the history of the corresponding line.
[Favorite] Icon (included in History)	Register the history of the corresponding line into the favorites.
Title	Result page of the navigation will be displayed. You can move to each page from the link list of this page.

3.10.4 Controlling Number of History Display

Result of the [Question Page] is saved as a history in [Record List]. You can arbitrarily configure the number of history record to be saved in this page.

<[Setting Page]>

[History] Icon	Move to [History List].
History Display Number	Enter the number of the history record to be displayed in [History List].
[Register] Icon	Register the entered history display number.

3.11 How to Use Mobile Terminal

You can create an application corresponding to the access from the mobile terminals with intra-mart. In order to log on from a page for the mobile terminals, access from the following URL (in case of default setting).

```
http://intramart/imart/(Login Group ID).mobile
```

You have to use login user ID and “mobile password” initially configured by the login group administrator in order to log on from the mobile terminals. This password obtained by the administrator can be changed after the user log on the intra-mart from the browser or mobile terminals.

3.11.1 Changing Mobile Password (Login through Web Browser)

Initial mobile password given by the login group administrator can be changed freely from the user page. You can configure it from [Mobile Password Change] in [User Setting].

<Page of changing mobile password>

3.11.2 Changing Mobile Password (Login through Mobile Terminal)

Initial mobile password given by the login group administrator can be changed freely from the mobile terminals.

1 Enter the user ID and mobile password, and select [login].

2 **After logging in, select [User Setting] menu.**

3 **Select [Mobile Password Setting].**

4 **Enter [Present Password], [New Password] and [New Password (confirmation)] and select [OK].**

5 **If password is successfully updated, “Password is updated” will be displayed.**

3.11.3 Setting "Easy Login"

“Easy Login” is a function to log in with sending “mobile phone information” specific for each mobile phone. You can cancel only the configuration from the browser page.

1 **Enter the user ID and password, and select [login].**

2 **After logging in, select [User Setting] menu.**

3 **Select [Easy Login Setting].**

4 **Select [Setting] button in [Easy Login Setting] button.**

5 **Select “Yes” button in the delivery confirmation page of the mobile phone information (in case of NTT DoCoMo).**

You can easily log in by sending specific mobile phone information.

3.11.3.1 Login through "Easy Login"

The login process of “Easy Login” is as follows.

1 **Select “Easy Login [login]” button without entering any information in [Login] page.**

2 **Select “Yes” button in the delivery confirmation page of the mobile phone information (in case of NTT DoCoMo).**

You can log in intra-mart by these operations.

3.11.3.2 Cancelling Settings through Web Browser

You can cancel the easy login setting in the browser screen page.

- Mobile function of intra-mart Ver6.1 can be used with the mobile phones satisfying the following conditions.
  1 Must be a mobile phone of the following carrier.
  NTT DoCoMo, SoftBank, au
  2 Mobile terminal called as “The third generation mobile phone’ or “The 3.5th generation mobile phone”
  3 Mobile terminal supporting XHTML

Column

Mobile Phone Information Specific to Mobile Phone

Mobile phone information specific to mobile phone used in easy login is called differently by each mobile phone carrier.

NTT DoCoMo It is called as “individual recognition information”. This includes the serial number and individual recognition number of FOMA card. As above-mentioned procedures, the confirmation page is always displayed before sending.

SoftBank It is called as Terminal serial number. In order to send this number, you have to admit sending in the mobile phone setting.

au It is called as subscriber ID. In order to send this number, you have to admit sending in the mobile phone setting

3.11.4 Out-of-Office Setting

Mail sent from intra-mart is usually delivered to the mail address registered in the user control master maintenance. If you configure “Out-of-Office” in “Out-of-Office Setting” in “User Setting”, the mail will sent to the mail address of the mobile terminal as well as the usual mail address.

<Out-of-Office setting>

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Chapter 4 Appendix

4.1 Character Input Limit in Maintenance Screen

This chapter explains about character input limit in each maintenance screen of intra-mart.

4.1.1 Types of Character Input Limit Pattern

The followings show the patterns of character input limit of each maintenance screen of intra-mart. In the subsequent explanations of 'applicable field', it is shown as 'x pattern of character input limit' after input items.

4.1.1.1 Field for ID, code, Password and so on (Limit Pattern 1)

It is limited only for English one byte characters and some other one byte characters.

Conditions

One byte characters (0-9)

One byte English characters(a-z A-Z)

Character '_'(0x5f)

One byte hyphen (-)

One byte at sign (@)

One byte period (.)

One byte plus sign (+)

One byte exclamation (!)

- Full size English characters and full size under scores are automatically converted into one byte characters.

4.1.1.2 Field for URL, Mail address(Limit pattern 2)

All visible characters (except for space *1) can be input.

Conditions

Except for Control codes (0x00-0x1f, 0x7f)

Except for space (0x20)

Full size characters are also imputable such as Japanese

- *1:Since Japanese domain exist, we do not check one byte English characters.

4.1.1.3 Field for Color Code Setting (Limit Pattern 3)

One byte numbers and English characters (from A to F) can be input.

Conditions

One byte numbers (0-9)

One byte English (a-fA-F)

4.1.1.4 Field for Data Input(Sort Key etc.) (Limit Pattern 4)

Only numbers can be input.

Conditions

One byte numbers (0-9)

Except for full size characters such as Japanese

4.1.1.5 Names and Remarks(Limit pattern 5)

All characters which can be input with key board can be input into this system, too.

Conditions

Except for control codes (0x00-0x1f, 0x7f)

Spaces (0x20) can be input, too.

Full size characters such as Japanese are available.

4.1.1.6 Field for Product Code and so on(Limit Pattern 6)

Only one byte English characters, hyphen, underscores are available.

Conditions

One byte numbers (0-9)

One byte English characters (a-zA-Z)

Character '_'(0x5f)

One byte hyphens (-)

4.1.1.7 Supplement

Control codes

‘Control codes’ expresses meaning of characters below.

Characters range from 0x00 to 0x1f

Character 0x7f(Delete)

- These are characters which generate beep sounds when not displayed in the screen page and output in the console.

4.1.2 Pattern in each Field

4.1.2.1 Batch Setting

Batch ID	→	Limit Pattern1

4.1.2.2 Calendar Setting

Calendar ID	→	Limit Pattern 1
Data ID	→	Limit Pattern 1
Data Name	→	Limit Pattern 1
Color of Display	→	Limit Pattern 3

4.1.2.3 Category Setting

Group Codes	→	Limit Pattern 1
Sort Key	→	Limit Pattern 4

4.1.2.4 Login Group Setting

Login group ID	→	Limit Pattern 1
User ID	→	Limit Pattern 1
Password	→	Limit Pattern 1
Password(Confirmation)	→	Limit Pattern 1
Page Pattern ID	→	Limit Pattern 1
Page URL	→	Limit Pattern 2
Page Image URL	→	Limit Pattern 1
Mail Address	→	Limit Pattern 2

4.1.2.5 Position Setting

Position Code	→	Limit Pattern 1
Sort Key	→	Limit Pattern 4

4.1.2.6 Company Setting

Company Code	→	Limit Pattern 1
Organization Code	→	Limit Pattern 1
Mail Address 1	→	Limit Pattern 2
Mail Address 2	→	Limit Pattern 2
URL	→	Limit Pattern 2
Sort Key	→	Limit Pattern 4

4.1.2.7 Public Group Setting

Group Setting Code	→	Limit Pattern 1
Group Code	→	Limit Pattern 1
Sort Key	→	Limit Pattern 4

4.1.2.8 Role Setting

Role ID	→	Limit Pattern 1
Role Name	→	Limit Pattern 1
Category	→	Limit Pattern 1

4.1.2.9 System Administrator Setting

User ID	→	Limit Pattern 1
Password	→	Limit Pattern 1
Password(Confirmation)	→	Limit Pattern 1
Mail Address	→	Limit Pattern 2

4.1.2.10 Account Setting

User code	→	Limit Pattern 1
Password	→	Limit Pattern 1
Confirmation Password	→	Limit Pattern 1
Mobile Password	→	Limit Pattern 1
Confirmation Mobile Password	→	Limit Pattern 1
Mail Address 1	→	Limit Pattern 2
Mail Address 2	→	Limit Pattern 2
Cell phone Mail Address	→	Limit Pattern 2
URL	→	Limit Pattern 2
Sort Key	→	Limit Pattern 4

4.1.2.11 Control Menu Setting

URL	→	Limit Pattern 2

4.1.2.12 Menu Setting

Menu ID	→	Limit Pattern 1

4.1.2.13 Product Setting

Product Code	→	Limit Pattern 6
Product Model Number	→	Limit Pattern 6
Selling unit cost	→	Limit Pattern 4
Purchase unit cost	→	Limit Pattern 4

4.1.2.14 **Product Template Setting**

Template Code	→	Limit Pattern 1

4.1.2.15 **Product Category Setting**

Product Category code	→	Limit Pattern 1
Sort Key	→	Limit Pattern 4

4.1.2.16 **Product Handling Setting**

Handling Code	→	Limit Pattern 1
Unit Cost	→	Limit Pattern 4
Quantity	→	Limit Pattern 4
Purchase Unit Cost	→	Limit Pattern 4

4.1.2.17 **ViewCreator – Data Reference Maintenance**

Data Reference CD	→	Limit Pattern 1

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