

Revision information

Revision date	Revision contents
2014-01-01	Initial version

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Welcome to IM-FormaDesigner for Accel Platform

Purpose of this guide

The information and procedure required to create various applications in IM-FormaDesigner for Accel Platform (here onwards referred as IM-FormaDesigner) are described in this guide.

- If IM-FormaDesigner is used, even if the user does not have domain knowledge about HTML and Javascript, he can create Web application for simple data management and contents (**Contents definition**) that can be used in application/approval screen of IM-Workflow by using Web browser.
- Since IM-FormaDesigner creates application from Web browser, it is not required to install software etc. on the personal computer of user who creates the application.
- Read and use this guide properly before creating and while creating application.

Intended readers of this guide

This document is intended for the in-charge who creates the application using IM-FormaDesigner.

Refer the related documents for more details on various products to be used.

Further, please note that prerequisite knowledge may be required for some functions depending on the type of application to be created.

User	Description
Application user	This user uses the created application.
Application creator	This user creates and edits the application
application creation manager	This user performs IM-FormaDesigner setting and query creation.

Structure of this guide

The structure of this guide is as follows.

Search the desired function and refer it.

Overview of IM-FormaDesigner

Functions and characteristics of IM-FormaDesigner are described. Use to get an overview of IM-FormaDesigner.

Creator Guide

Creation of Web application in IM-FormaDesigner

The procedure to create Web application in IM-FormaDesigner is described.

Creation of application that can be used from IM-Workflow of IM-FormaDesigner

The procedure to create an application that can be used from IM-Workflow in IM-FormaDesigner is described. The contents of Help to be displayed from form designer screen of IM-FormaDesigner are also described here.

Application management of IM-FormaDesigner

Describes the settings for administrator related to IM-FormaDesigner.

Glossary for intra-mart

Various terms that appear in intra-mart documents are explained here.

Related to IM-FormaDesigner for Accel Platform

Detail table

This table is for application of IM-FormaDesigner to be created in database for storing the data entered in screen item "Detail table" placed in main form. Header table can be acquired by collecting the data entered in main form by joining similar key items (Data registration ID: imfr_sd_insert_id).

Header table

This table is for application of IM-FormaDesigner to be created in database for storing the input data of screen item placed in main form. The input data to be managed in header table is the value entered or selected for the screen items that meet the following conditions.

(1) Type of screen item is other than "Detail table"

(2) Value of "Add to DB" item of property of screen item is valid (Checkbox is ON)

Main form

This is a form to create table. Header table, Detail table of application are created based on the settings of main form.

Query

It saves the command to search data from the database as a statement.

In IM-FormaDesigner, various data can be displayed in the created application using queries.

Related to IM-Workflow

Contents definition

This function configures the screen part of IM-Workflow.

It is possible to set the screen to be displayed during application and approval, program to be operated in each workflow processing and the conditions for branching during flow processing (Rule definition).

Flow definition

This function combines contents definition and route definition of IM-Workflow and performs workflow processing.

Set in case of referring both contents definition and route definition (Append setting etc.).

Job property

Set such that the value entered on application/approval screen in IM-Workflow can be used in branching condition of flow and process notification mail body.

Route definition

This function configures the processing flow (Flow) of IM-Workflow.

Application, approval and branching/synchronous settings and process target user of each process can be set.

Related to intra-mart Accel Platform

Locale

"Locale" in intra-mart Accel Platform indicate the settings of the language to be displayed. In intra-mart Accel Platform, Japanese, English and Chinese language is supported as the standard locale setting.

Login group DB

Name is changed to Tenant DB by intra-mart Accel Platform.

Shared DB

Shared DB (Shared database) is used in case of using multiple databases in one login group or in case of using single database in multiple login groups. It was called as "System DB" in version 7.2.

System DB

Name is changed to shared DB by intra-mart Accel Platform. System DB in IM-FormaDesigner is a database to manage the information related to tenant management information and tenant environment setup within the system and for system management of intra-mart Accel Platform.

Tenant DB

Tenant DB (Tenant database) is the default database of login group. Only 1 is set for each login group. This database was called as "Login group DB" in version 7.2.

Overview of IM-FormaDesigner

Settings that can be performed in IM-FormaDesigner

The characteristics of IM-FormaDesigner are described below.

Settings that can be performed in IM-FormaDesigner

Web application which operates on intra-mart Accel Platform can be easily created in IM-FormaDesigner.

The characteristics of IM-FormaDesigner are as follows.

- Even if one does not have knowledge of HTML, JavaScript, XML etc., application screen can be created in IM-FormaDesigner by intuitive operation.
- Input mandatory check and number of characters check etc., in Web application can be used only for item setting.
- If IM-Workflow linkage setting is done, the application screen created in IM-FormaDesigner can be used as screen for application and approval.

Application which can be created in IM-FormaDesigner

The following application can be created in IM-FormaDesigner.

Web application

The following can be specified in the Web application to be created in IM-FormaDesigner.

- Web application to check the data created in a system other than intra-mart Accel Platform in a list.
-> **Create Web application in IM-FormaDesigner**
- Web application that can independently create, register and update table on intra-mart Accel Platform and display the data in a list -> **Create an application which can be used from IM-Workflow in IM-FormaDesigner**



Note

It is a prerequisite to have knowledge to handle the database for the application development that refers other database.

Screen for application/approval of IM-Workflow(Content)

In IM-FormaDesigner, the created Web application can be used as application screen or approval screen if linkage is done with IM-Workflow. If application is executed using the Web application created in IM-FormaDesigner, application form can be copied by "Reuse application form" and used as a new application (Condition).



Note

The condition for reusing the application form is limited to the condition in which application form is created in IM-FormaDesigner. The application created by using only IM-Workflow functions cannot be reused.

Menu configuration of IM-FormaDesigner

IM-FormaDesigner menu and function of each menu is described here.

Application list

It is used while managing (Create, Update, Delete) the Web application created in IM-FormaDesigner.

Linkage setting etc. to use the created Web application in IM-Workflow is also performed from this Menu.

Datasource definition (Tenant DB query/shared DB query)

This function creates, updates or deletes the query which acquires data from **Tenant DB** and **Shared DB** in IM-FormaDesigner.

It is required to create the query to develop the application through which data of any database can be referred in IM-FormaDesigner.

Import/Export

It is used to migrate the definition created in IM-FormaDesigner to a different environment. "Application migration", "Data source definition migration" is the migration target data.

[Application migration]

- Import: Imports the information of the Web application of IM-FormaDesigner created in another environment.
- Export: Exports the information to migrate the Web application created in IM-FormaDesigner to a different intra-mart Accel Platform environment, to the file.

[Datasource definition migration]

- Import: Imports the information of datasource definition of IM-FormaDesigner created in another environment.
- Export: Exports the information to migrate the Web application created in IM-FormaDesigner to another intra-mart Accel Platform environment, to the file.

Reuse application form (IM-Workflow)

It is possible to copy the condition applied in IM-FormaDesigner application (Content) for which linkage is set with IM-Workflow and reuse as new condition. Application process can be performed efficiently in case of processing multiple applications with similar input contents.



Warning

 This function is IM-FormaDesigner independent function and it is not IM-Workflow function.

Numbering rule definition

This function creates, updates or deletes any index system (Numbering rule definition) in IM-FormaDesigner .
A unique number can be acquired/displayed by placing the screen item "Numbering" on the IM-FormaDesigner form.

Create Web application in IM-FormaDesigner

Create a simple Web application

Create an application in IM-FormaDesigner

The outline of the procedure to create a Web application in IM-FormaDesigner and to perform the settings of IM-Workflow is described below.
Perform the operations according to the procedure of the corresponding page after checking the necessary procedures on this page.

Basic procedure to create an application in IM-FormaDesigner

It is the basic procedure to create an application in IM-FormaDesigner .

Step 1 : Register basic information of application

- ▣ Set the language to be used (**Locale**) and purpose of usage (Web application, IM-Workflow contents) etc., for the application to be created.

Step 2 : Create form

- ▣ Create a screen component called "Form" created in IM-FormaDesigner and set it to the screen to be used in the application.

Step 3 : Create table

- ▣ Create a table to store the data registered from the created application in the database.
 - ▣ Since the table can be created automatically by the click operation, database knowledge related to SQL etc., is not required.

Step 4 : List display, set authorization

- ▣ Perform the settings (list display settings) to view the data registered from the application in a list and the settings (authorization settings) to restrict the users who can use the application.

Step 5 : Register in menu

- ▣ Register in the menu to execute the created application.

Set basic information of IM-FormaDesigner application

The method to register the basic information of application created in IM-FormaDesigner is described below.

Contents

- ▣ [Basic information of IM-FormaDesigner application](#)
- ▣ [Function and description of each part of application registration screen](#)
- ▣ [Create new application of IM-FormaDesigner](#)
- ▣ [Update IM-FormaDesigner application](#)
- ▣ [Delete IM-FormaDesigner application](#)

Basic information of IM-FormaDesigner application

Retain the application name, history management (version) information for fixed period and target display language settings as the basic information of application in IM-FormaDesigner.
Control of available period or switching of display language is performed for the Web application of IM-FormaDesigner based on the contents set in basic information.

Function and description of each part of application registration screen

The contents of registration screen of application are as follows.

Add application

(1) Application id *

(2) Application type * Standard

(3) Valid start date *

(4) Valid end date

(5) Target locale(s) English Add target locales

Set at least one locale.

(6) Application name *

(7) Remarks

Add

1. Application ID

Enter the name for identification within the IM-FormaDesigner system using single byte alphanumeric characters and underscore ("_").

2. Application type

Select whether the application created in IM-FormaDesigner is to be used as Web application or to be used by linking with IM-Workflow.

- Standard : Use IM-FormaDesigner application as an independent Web application.
- IM-Workflow : IM-FormaDesigner application by linking with IM-Workflow.

3. Valid start date

Set history start date of the first version to be stored in the application created in IM-FormaDesigner.
The created application can be used from this set date onwards.

4. Valid end date

Set history end date of the first version to be stored in the application created in IM-FormaDesigner.
The created application can be used till this set date.

*If input is omitted, system end date (default is 2999/12/31) of intra-mart Accel Platform is set.

5. Target locale(s)

Select **Locale** to be used in application created in IM-FormaDesigner.
When the application is to be used, the user should log into intra-mart Accel Platform in the set locale.

6. Application name

Enter the name of the application to be created in IM-FormaDesigner.
The entered name can be used as display in menu or as initial value of job name at the time of linking with IM-Workflow.

7. Remarks

Enter the description of application.
Display the entered descriptive text in 'Remarks' of the application list.

Create new application of IM-FormaDesigner**Step 1 : Display application registration screen**

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- Click "Add" button at the top of "Application list".

Step 2 : Enter application information

Since registration screen of application information is displayed, enter the required information and register the version of application.
The information registered here can be changed with some exceptions.

Update IM-FormaDesigner application**Application history management**

Multiple "Application history" can be registered in one application of IM-FormaDesigner.

When "Application history" is used, switching to a screen to be used for fixed period is possible, hence after the end of the set period, it is possible to automatically switch and use the subsequent screen (form) for set period.

**Note**

If the valid time in multiple "Application history" overlaps, larger number of application history number becomes valid.

Step 1 : Display application history registration screen

To switch an application form created in IM-FormaDesigner in fixed period, the information (application history) of the period to apply for a new form should be added first.

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- ▣ Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- ▣ Click "Edit" of the application in which application history is to be added in the "Application list".
- ▣ Click "Form list" tab from "Application information".
- ▣ When "Add" in "Application history list" is clicked, transition takes place to additional screen of application history information.

Step 2 : Register application history information

- ▣ Enter application start date for new application (form) in "Valid date (Start)". (If Valid date (End) is not entered, 2999/12/31 is set as the default.)
- ▣ New application history information is registered when "Add" is clicked.

Step 3 : Edit form layout

- ▣ Click "Form list" tab in "Application history information".
- ▣ Since form information registered in application history information previously is displayed, click "Edit form" of the form which is to be edited.
- ▣ Edit the layout of form according to the procedure of "Create application form".
- ▣ Form editing is complete when information such as transition information is changed.

Delete IM-FormaDesigner application

Describes about the deletion of application created in IM-FormaDesigner when it is not linked with IM-Workflow.

Refer **Remove (Delete) IM-Workflow linkage information** for the deletion procedure when linked with IM-Workflow .

Step 1 : Display application information screen

- ▣ The following procedure is described from the screen after login to intra-mart Accel Platform.
- ▣ Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- ▣ Click "Edit" of the application in which application history is to be added in "Application list".

Step 2 : Delete application

- ▣ Click "Delete" in "Application information".
- ▣ Message showing "Are you sure you want to delete application information?" is displayed.
 - ▣ In case header table / Detail table of the application is to be deleted, if "Delete the table which stores application data." check is set to ON and "OK" is clicked, then the application is deleted.
 - ▣ In case registered data is to be used from the application even after deleting the application, if "Delete the table which stores application data." check is set to OFF and "OK" is clicked, then only the application is deleted.
 - ▣ If application management company is set when the application is deleted, the information of application management company setting is also deleted simultaneously.

Create application form

The method to create a screen component called as form which configures an application is described below.

Contents

- ▣ **Application form**
- ▣ **Function and description of each part of form list screen**
- ▣ **Function and description of each part of form registration screen**
- ▣ **Function and name of each part of form designer screen**
- ▣ **Create / edit application form**
- ▣ **Delete application form**
- ▣ **Use multiple forms in application**

Application form

The component which is the "Screen" of application created in IM-FormaDesigner is called as "Form".

In 'Application', application with multiple screen transitions can be created by creating a form other than the main form created initially.

Main form

Main form is the initial setting of screen (form) used by each process (register / refer / update) in the application created in IM-FormaDesigner. The fields in main form are the table fields to manage the data entered in application form or application created in IM-FormaDesigner.

Function and description of each part of form list screen

The contents of form list screen are as follows.

The screenshot shows the 'Form list' screen of the IM-FormaDesigner application. At the top, there is a header bar with tabs: 'Application history information', 'Form list' (which is selected), 'Form transition list', and 'User program list'. Below the header, there is a toolbar with a 'Add' button and a count '(1)'. The main area contains a table with the following data:

(2)	(3)	(4)	(5)	(6)
Edit	Edit form	Preview	Form name	Form remarks
			Main Form	The screen to input the information of the equipment to register or update.
			Form2	The screen to confirm the inputs.
			Form3	The screen to refer the inputs.

1. Add

Display the form registration screen.

2. Edit

Display the edit screen of registered form.

3. Edit form

Transit to edit screen layout (form designer screen) of registered form.

4. Preview

Display preview screen of registered form.

5. Form name

Display the registered form name.

6. Form remarks

Display the remarks of registered form.

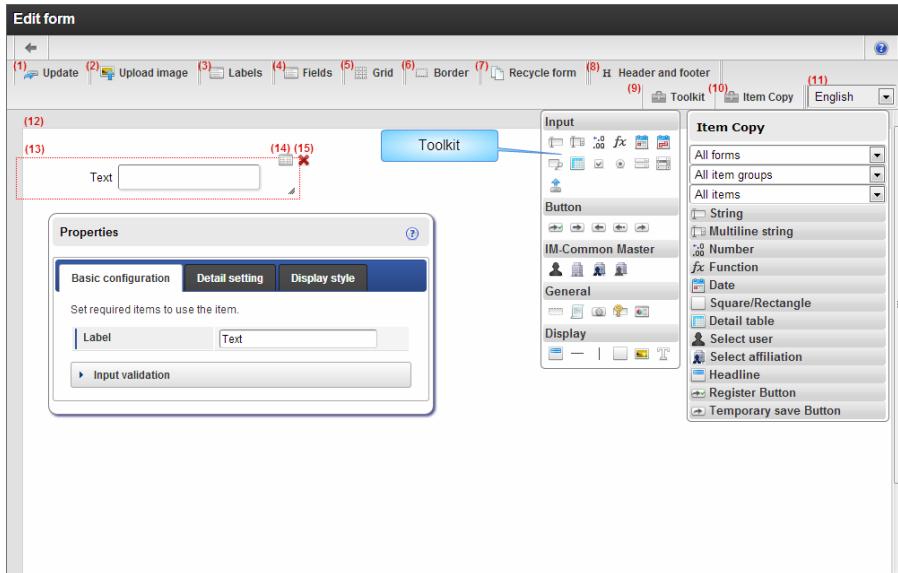
Function and description of each part of form registration screen

The contents of form registration screen are as follows.

The screenshot shows the 'Add form' screen of the IM-FormaDesigner application. The screen has a title 'Add form' and contains three language sections: English, Japanese, and Chinese. Each section has two input fields: 'Form name *' and 'Form remarks'. The English section is currently active. At the bottom right of the form is a large 'Add' button.

Function and name of each part of form designer screen

The contents of form designer screen are as follows.



1. Update

Save the setting contents of form designer screen in form data.

2. Upload image

Display the screen to upload the image file which can be set in image selection of screen item "Image".

3. Labels

Display label item list of the items set in the form.

The items set as label of items are displayed in a list.

4. Fields

Display the input field list of the items set in the form.

Only the items having input fields are displayed in the list. Items such as display items, which do not have input fields are not displayed.

5. Grid

Display grid in form preview area.

6. Border

Always display the border of the set items.

The border color is red for the selected items and the other items are displayed in black color.

7. Recycle form

Load the registered form.

Form settings can be loaded from other application or history of same application.

Since form setting contents are "Read", when form information is saved after loading, it is overwritten in the form under edit of the application which is currently being edited.

The contents of the registered form selected in reuse list are not changed.

When search conditions such as application ID etc. are entered and 'Search' button is clicked, list of forms matching the criteria is displayed.

When radio button of the form to be used from the list is checked and "OK" button is clicked, it is reflected to the form designer screen to load the form.

When 'Preview' icon is clicked, preview screen of corresponding form is displayed in a popup.

Note that when the form is loaded, unsaved edit contents of the form under display are deleted.

8. Header and footer

Display the screen to set header and footer in the form.

9. Toolkit

Display the toolkit which saves the items which are classified according to the categories.

Each item is arranged in the form by drag & drop.

Toolkit is hidden by double clicking on it or by clicking the toolkit icon.

Open and close by clicking the classification of items.

Moreover, item name is displayed by placing the cursor on each item.

10. Item Copy

Display the list of form fields used in application to allow the items share a value between different forms within the same application.

The items for which "Add to DB" is enabled (check is ON) in the input / select items having Field ID are considered to be displayed in the list.

11. Locale

When multiple locales are set in an application, preview of the locale selected by select box is displayed.

12. Form preview area

It is the preview of the form being created.

Position and appearance etc. of the set items is displayed in the same way as when the form is used in practice.

13. Arranged items

These are the items set in the form.

14. Properties (icon)

Display the property setting screen of set items.

Property screen can be also displayed by double clicking the set item.

15. Delete (icon)

Delete the set item.

Create / edit application form

The method to create form in form designer screen is described below, however, also refer "IM-FormaDesigner for Accel PlatformDesigner Help" for the detailed description of function of each screen.

Step 1 : Display form designer

<<When "Register" in application information is clicked>>

- Form designer is displayed after "Add" button is clicked.

<<When form is to be created in registered application from menu>>

1. In "Application list", click "Edit" icon of application that creates the form.
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" of "Application history information".
 - When the form to be edited is displayed in the list, click the "Edit form" icon.
 - When the form to be edited is not displayed in the list, click "Add".
 - Create form by entering form name in "Form name" and description in "Remarks".
5. Display form designer screen.

Step 2 : Set item in form preview area

1. Click "Toolkit" from the form designer screen toolbar and display the popup of screen items which can be set in the form.
2. Arrange the items to the form preview area by drag & drop.
3. The required items are set.
 - Make sure to set screen item "Button (Register)" for registration of data as web application or execution of application (approval) process from the form by linking with IM-Workflow .

<<When multiple items are to be selected and set>>

- Multiple items can be selected and set collectively for some setting items in form designer.

The contents which can be set are as follows.

- Move the position of multiple selected items by dragging
- Align (left alignment, right alignment, top alignment) multiple items
- Copy and paste multiple items collectively
- Delete multiple items collectively
- When OS of personal computer of application maker is Windows
 - Multiple target items can be selected by pressing the "ctrl" key (border is blue dotted line).
 - When the state in which multiple items are selected is to be released, click any location on form designer.
- When OS of personal computer of application maker is Macintosh
 - When "Multiple selection" is clicked in the context menu displayed by right clicking on canvas of form designer, it changes to multiple selection mode.
 - At the time of multiple selection mode, multiple items can be selected when the items to be set collectively are clicked. (border is blue dotted line)
 - When the state in which multiple items are selected is to be released, similar to the multiple selection mode setting, right click and display the context menu and click "Release multiple selection".

<<In case of arranging the items by aligning>>

- Select multiple target items.
- When multiple items are selected, right click and display the context menu.
- Click "Left alignment", "Right alignment" or "Top alignment" of the context menu as per the standards of aligning.
- Items are arranged in the selected order.



Note

Arrangement of items can be aligned as per following by the selected menu.

- Left alignment

From the selected items, the horizontal position (Value of position "X" of property item) of the item is aligned to the extreme left (small) item.

- Right alignment

From the selected items, the horizontal position (Value of position "X" of property item + item size width) of the item is aligned to the extreme right (large) item.

- Top alignment

From the selected items, the vertical position (Value of position "Y" of property item) of the item is aligned to the topmost (small) item.

<<When items are set by copy and paste>>

- Copy the item by clicking "Copy" in the context menu displayed by right clicking the item to be copied.
- In form designer, right click at the location where the copied item is to be pasted, display the context menu and click "Paste" to paste the item.

**Note**

When OS of personal computer of application maker is Windows, item can be copied using short cut keys "Ctrl"+ "C" and pasted using "Ctrl"+ "V".

Step 3 : Change item size, set input check

Since a default value is set in the attribute (type and size of characters which can be entered) of each item set in step 2, it is changed according to the requirement.

Refer "IM-FormaDesigner for Accel PlatformDesigner help" for the details of items which can be changed.

- Display / hide screen item property
 - When property of screen item is to be displayed, click the property (icon displayed on top right after selecting the screen item or double click the screen item.
 - When property of screen item is to be closed, click on any location outside the property or double click on property.

<<When display size of item is to be changed>>

- Change the display width of label (name) of field
 1. Click the corresponding item and click "Property" icon.
 2. Click "Display style" of the displayed property window.
 3. Enter the width to be set in "Label width" in pixel units.
- Change the width of input column of field
 1. Click the corresponding item and click "Property" icon.
 2. Click "Display style" of the displayed property window.
 3. Enter the width to be set in "Field width" in pixel units.

<<When check is to be set for characters entered in item>>

1. Click the corresponding item and click "Property" icon.
2. Click "Input field" of the displayed property window.
3. Click "Input validation" in the middle of the window and display setting column of check field.
 - Set the corresponding checkbox to "ON" when input is to be made mandatory or when only single byte alphanumeric characters are allowed to be entered.
 - When upper limit / lower limit of number of characters that can be entered is to be set, set as per the following.
 - Set input characters to more than O characters -> Enter characters equivalent to O in "Minimum letters". Consider number of characters equivalent to O as an appropriate value.
 - Set input characters to less than O characters -> Enter characters equivalent to O in "Maximum letters". Consider number of characters equivalent to O as an appropriate value.

Step 4 : Perform display settings for other locales * When multiple locales are set in application basic information

1. Change "Locale" of toolbar of form designer screen to the locale for which label of item is not set.
2. Check property of screen item of form preview area and set fields for locales which are not set.

Step 5 : Confirm setting contents of form

Confirm the setting contents of the entire form after completing each setting operation of form designer.

- Check whether item name and display name can be set correctly.
 1. Click "Labels" from the toolbar of form designer.
 2. The item name on the left and the contents of the label set on the right are displayed. When the contents of label are to be changed, it can be edited by clicking the label column.
- Check the item name and field name of database (Field ID, Field ID name (Japanese))
 1. Click "Fields" from the toolbar of form designer screen.
 2. The item name on the left and the contents of each field set on the right are displayed. When the contents are to be changed, it can be edited by clicking the column of the field which is to be changed.
 - The items that can be changed are tab index and field identifier (Japanese).

Step 6 : Save the contents of form designer

After editing the form, click "Update" from the toolbar of form designer screen and save the form data.

Delete application form**Warning**

Ensure that the form which can be deleted is other than the main form.

Step 1 : Display form designer

1. Click "Edit" icon of the application creating form in "Application list".
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" tab of "Application history information".
5. Click "Edit" icon of form which is to be deleted.

Step 2 : Delete form

1. "Form information" is displayed.
2. Click "Delete".
3. If the message "Are you sure you want to delete?" is displayed, set the "Delete the file which stores form data." check to ON and click OK.
4. Form data is deleted.

**Note**

Note that if deletion is executed when "Delete the file which stores form data." check is OFF, the actual file of form data on intra-mart Accel Platform server is stored as garbage data without being deleted. (The remaining data cannot be reused.)

Use multiple forms in application

Only "Main form" is registered immediately after the registration of application and it is connected to the registration screen, update screen and reference screen.

In IM-FormaDesigner, using forms other than main form in respective screens and setting form transition is possible by [Add form] and [Form transition] setting.

According to the usage, form transition is divided into registration screen transition, update screen transition, reference screen transition.

Registration screen, update screen and reference screen performing screen transition configured in multiple forms can be created by setting the added form to each form transition.

- Registration screen transition It is the form transition used as registration of data and application screen of workflow.
- Update screen transition It is the form transition used as update of data and reapplication screen of workflow.
- Reference screen transition It is a form transition used as reference of data and approval, confirmation and reference screen of workflow.

**Note**

Note that when multiple forms that are different are used in one application, if the screen item set in the main form and the screen item for which Field ID is not corresponding are set in the form other than main form and "Add to DB" is enabled, the value of the item set in the form other than main form cannot be managed in the database.

The procedure to add the form and register in screen transition is as follows.

Step 1 : Display form designer

1. Click "Edit" icon of the application creating form in "Application list".
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" tab of "Application history information".
5. Click "Add".
6. Display form designer screen.

Step 2 : Create form by reusing (copying) main form

1. Click "Recycle form" from the form designer screen toolbar on the form designer screen to create a copy of the added form from the main form.
2. Since the list of registered forms is displayed, set the radio button of form to be used in main form or displayed form.
3. Layout of the selected form is copied.
4. Make necessary changes, click "Update" from the toolbar of form designer screen after editing the form and save the form data.

**Note**

In form transition, the following conditions should be satisfied to receive parameters from the previous form.

- (1)[Field ID] should be same as that of previous form.
- (2)The data type should be same as that of the previous form. (Example : String item and Hidden field for which data type is set to String.)

Step 3 : Register form transition information

1. Click "Form transition list" tab on the "Form list" screen.
2. Click "Edit details" of the setting column to be transited in the added form.
3. Click "Add" link in "Edit form transition details" and display the "Search form" screen.
4. Set the radio button of the added form to ON.
5. Set the order of the form by drag and drop in "Edit form transition details" and click "Update".

**Note**

Table settings should also be performed if the main form is changed.

Set table

The method to create a table to manage the data entered in IM-FormaDesigner is described below.

Contents

- ⦿ **Table setting**
- ⦿ **Function and description of each part of table creation screen**
- ⦿ **Create / update table to manage input data**
- ⦿ **Delete the table to manage input data**
- ⦿ **Recreate table to manage input data**

Table setting

The table to save the data entered in Web application created in IM-FormaDesigner and the application screen for IM-Workflow is created automatically based on the screen items set in "Main form".

Function and description of each part of table creation screen

The contents of table creation screen are as follows.

Create table

(1) Application id: sample_app_equipment
Application name: Sample Equipment management

Header Details(Detail table) (2)

Table name (3): imfr_ut_equipment_management

Item name	Column name	Data type	Data size (5)	Data size(decimal)
Insert id	imfr_sd_insert_id	String	20	
Application id	imfr_sd_application_id	String	100	
Application history number	imfr_sd_application_no	Numeric value	10	0
Version	imfr_sd_version_no	Numeric value	10	0
Registration date	imfr_sd_create_date	Timestamp		
Registrant user code	imfr_sd_create_user_cd	String	100	
Updated date	imfr_sd_record_date	Timestamp		
Update user code	imfr_sd_record_user_cd	String	100	
Temporarily save flag	imfr_sd_preserve_flag	String	1	
Color	imfr_ud_color	String		
Equipment name	imfr_ud_equipment_name	String		
Maker	imfr_ud_maker	String		
Purchase unit	imfr_ud_purchase_unit	String		
Minimum quantity	imfr_ud_minimum_quantity	Numeric value		
Size	imfr_ud_size	String		
Price	imfr_ud_price	Numeric value		
Company	imfr_ud_company	String		
Additional description	imfr_ud_additional_description	String		
Locale	imfr_ud_locale	String		

1. Add

Create a table to manage the application data.

2. Header / Details

Depending on the screen item set in the main form, set header table / details in table unit from the tab.
Create table one by one in Detail table unit.

3. Table name

Set physical name of table to be set in header table and Detail table within 30 characters.

The maximum number of characters of physical name of the table can be changed by configuration file of IM-FormaDesigner.

4. Table definition information

Column name / data type are set automatically based on the setting of the fields for IM-FormaDesigner management and input fields of main form.

5. Data size

Set the required number of digits when the data type of input items set in main form matches with either "Character type" or "Numerical type".

Create / update table to manage input data

Step 1 : Display table setting screen

- ⦿ Click "Table setting" tab of application basic information screen.

- Table setting screen is displayed.

Steps 2-1 : Set column (field) of table

Execute only the 2-1 procedure if "Detail table" of screen items is not used in the main form.

When new application is created and table setting is not performed

- Confirm that "There is no table setting information." is displayed and click "Add".
- The table information wherein the field of screen item for which "Add to DB" check of property field set in main form is ON and the items for internal management of IM-FormaDesigner are set as column of table, is displayed.
- Enter data size of column having "Data type" as "String", "Number" in the screen item column for which the "Add to DB" check of property field is "ON" in the main form.
 - Enter "Data size" for string.
 - Enter 2 fields, "Data size" and "Data size (decimal)" for the numerical value.
- Confirm that no setting is omitted in the setting contents of table and click "Add" on the top of the screen.
- Click "OK" on the registration confirmation message.
- Header table** is created.

**Warning**

Set the value of data size similar to "Maximum letters", "(Number of digits) of maximum input value" of the screen item corresponding to column (field) of table or a greater value.
The unit of data size can be "Byte" according to the type of database used in intra-mart Accel Platform. Enter the number of bytes by referring the number of characters to be entered and character code of database.

When table setting is performed after application creation (Update)

Table setting should be performed if screen items set in main form are added / deleted after the previous table setting.

- Confirm that information of created table is displayed in "Table setting" and click "Update".
- If it is required to add the column corresponding to the screen item added in the table, enter "Data size" and "Data size (decimal)" as per the requirement as it is automatically added and displayed.
- Confirm that no setting is omitted in the setting contents of table and click "Update" on the top of screen.
- Click "OK" on the update confirmation message.
- Table is updated.

Step 2 : Set column (field) of table

When "Detail table" of screen item is used in main form, execute 2-2 procedure after 2-1 procedure.

When "Detail table" of screen item is used within the main form, it is required to create 1 Detail table in the database for 1 Detail table.

- Regarding **Header table**, set "Data size", "Data size (decimal)" according to **Create / update the table to manage input data**.
- In case of the main form in which Detail table is set, click "Detail table" tab as "Header table" "**Detail table**" is displayed by tab.
- The table information wherein the field for which "Add to DB" check of column property field of "Column" set in Detail table is ON and the fields for internal management of IM-FormaDesigner are set as column (field) of table, is displayed.
- Enter data size of the column having "Data type" as "String" "Number" for the column for which "Add to DB" check for column property field is "ON".
- Modify the name of header table and Detail table such that it is within 30 characters and click "Add" on the top of the screen.
- Click "OK" on the registration confirmation message.
- "Header table", "Detail table" are created.

Delete the table to manage input data

Step 1 : Display table setting screen

- ▣ Click "Table setting" tab of application basic information screen.
- ▣ Table setting screen is displayed.

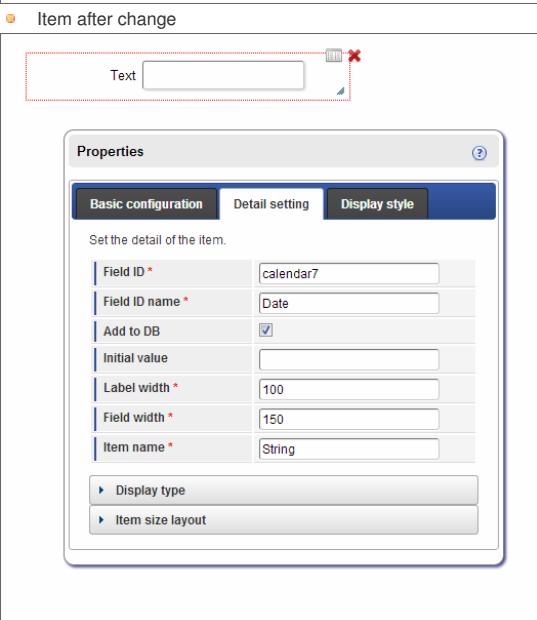
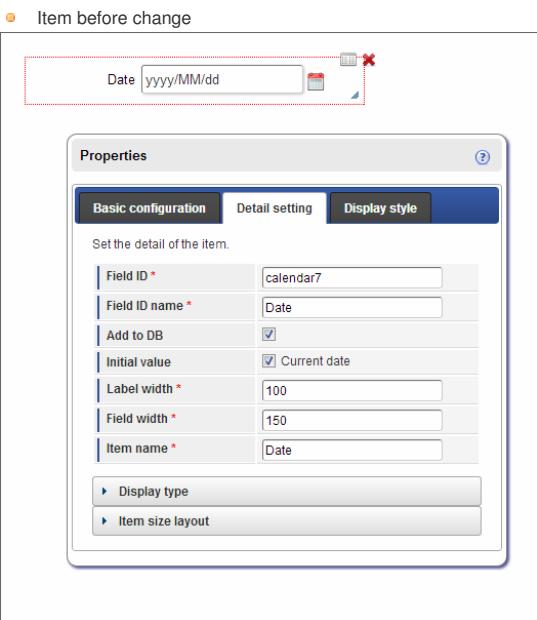
Step 2 : Delete table information

- ▣ Click "Delete" on the bar at the top.
- ▣ The confirmation message "Are you sure you want to delete the table information?" is displayed. If header table / Detail table on the database are also to be deleted, set the check of "Delete the table which stores application data." to ON and click "OK". If the table on the database is not to be deleted, click "OK" without setting the check to "ON".
- ▣ Table is deleted.

Recreate table to manage input data**When it is required to recreate the table**

When main form is changed and it is applicable to the following case, it is required to recreate (delete -> create) the table.

- ▣ Change the data type of item set in table field (Setting screen item of different attribute with same item ID)

**Step 1 : Display table setting screen**

- ▣ Click "Table setting" tab of application basic information screen.
- ▣ Since table setting screen is displayed, click "Refer".
- ▣ Check the setting contents of table.

Step 2 : Save table data

- ▣ When table is recreated, the data registered till that time is deleted, hence when table is to be transited after recreation, create copy of another table by database management tool and save the data.

Step 3 : Delete table information

- Click "Delete" on the bar at the top.
- The confirmation message "Are you sure you want to delete the table information?" is displayed. To delete the header table / Detail table on the database, set the "Delete the table which stores application data." check to ON and click "OK".

Step 4 : Create table

- Change form item.
- Confirm that "Table setting information does not exist" is displayed and click "Add".
- Enter the data size of column having "Data type" as "String" "Number" in the column of screen item for which "Add to DB" check for property field is "ON" in the main form.
- Confirm that the field of table corresponding to screen item for which data type is changed in screen item on main form, is changed.
- Confirm that setting is not omitted in setting contents of table.
- When "Add" on the top of screen is clicked, **Header table**, (**Detail table** if Detail table exists) is created.
- Use the database management tool when the data of the table before deletion is to be inserted into new table.

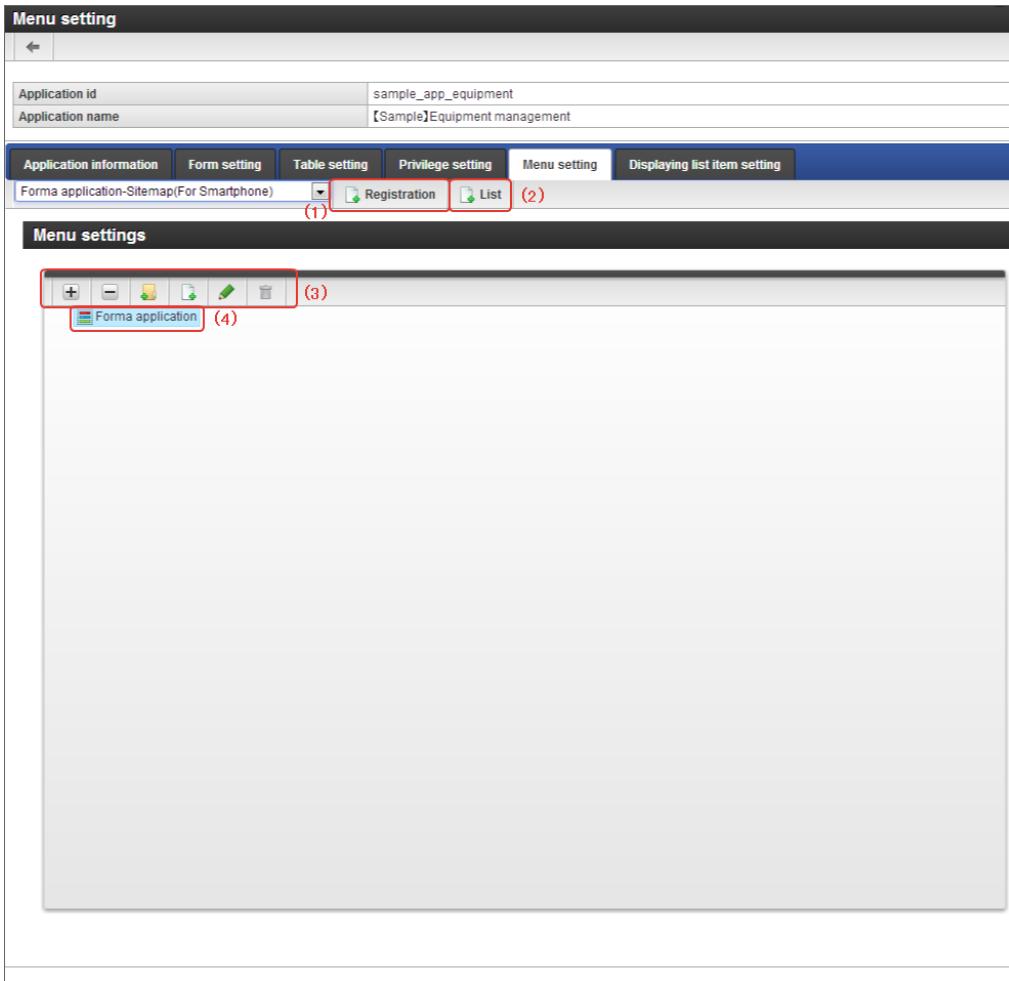
Set menu

The method of registration to the menu of list display screen and registration screen of the application is described below.
Note that it is necessary to logout and login again if the registered menu is to be used from sitemap or global navigation.

Contents

- Function and description of each part of Settings screen of menu configuration**
- Register the registration screen of application in menu**
- Difference in menu item edit screen according to the role set to user**

Function and description of each part of Settings screen of menu configuration



Refer "intra-mart Accel Platform Tenant administrator guide" for more details on menu setting screen.

- New page (Registration screen)
Registers the registration screen of application as a menu.
- New page (List screen)
Registers the list display screen of application as a menu.
- Menu toolbar
Displays the button to operate menu group and menu item of menu tree.



1. Open tree
Displays by expanding the menu group and menu folder under the menu group category.
2. Close tree
Displays by collapsing the menu group and menu folder under the menu category.
3. New folder
Transits to the new registration screen of menu folder.
4. New item
Transits to the new registration screen of menu item.
5. Edit
Transits to the update screen of selected menu group, menu folder and menu item
6. Delete
Deletes the selected menu group, menu folder and menu item.
4. Menu group
Selects the menu group to be set on the menu setting screen.

Register the registration screen of application in menu

Step 1 : Display the settings screen of menu configuration

*The following procedure is explained from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- Click "Edit" icon of the application to be set from "Application list".
- Click the "Menu setting" tab of application information.

Step 2 : Set registration screen in menu

- Click "New page (registration screen)".
- Select "New page (registration screen) under <Menu group> and click "Edit" icon.
- Enter name displayed in menu in "Menu item name" and click "Update".
- Registration screen of application could be registered in menu group.

Difference in menu item edit screen according to the role set to user

The display may change partially depending on the contents of the role set to the user for which menu setting screen is displayed.

Note that if the edit screen of menu item of registered application is opened when "Approval setting administrator" role is assigned to the user, "Authorization setting" button is displayed, however, an error occurs if it is clicked.

This event does not occur when "Approval setting administrator" role is not assigned to the user.

- When "Approval setting administrator" role is assigned to user

Menu item ID *	equipment_registration						
Menu item name *	<table border="1"> <tr> <td>English *</td> <td>(Sample)Equipment management</td> </tr> <tr> <td>Japanese</td> <td></td> </tr> <tr> <td>Chinese</td> <td></td> </tr> </table>	English *	(Sample)Equipment management	Japanese		Chinese	
English *	(Sample)Equipment management						
Japanese							
Chinese							
URL *	forma/normal/view/regist_application_view/sample_app_equipment						
Call method	GET						

- When "Approval setting administrator" role is not assigned to user

Menu item ID *	equipment_registration						
Menu item name *	<table border="1"> <tr> <td>English *</td> <td>(Sample)Equipment management</td> </tr> <tr> <td>Japanese</td> <td></td> </tr> <tr> <td>Chinese</td> <td></td> </tr> </table>	English *	(Sample)Equipment management	Japanese		Chinese	
English *	(Sample)Equipment management						
Japanese							
Chinese							
URL *	forma/normal/view/regist_application_view/sample_app_equipment						
Call method	GET						

Note

List screen can also be set in menu by similar procedure.

Set list display

The data registered / updated from an application created in IM-FormaDesigner can be displayed as a list in an arbitrary field if "List display" is used. However, the list which can be set in this section is not IM-FormaDesigner common list, but it is the list created in each application.



Warning

Note that the "List" handled in this section is a part of IM-FormaDesigner function and is different from the unprocessed and processed list, which are a part of IM-Workflow function.

Contents

- Type of fields which can be displayed in the list
- Function and description of each part of list display field setting screen
- Set the fields to be displayed in the list
- Change the field displayed in the list
- Delete fields displayed in the list

Type of fields which can be displayed in the list

The following fields can be displayed in the list which can be set in IM-FormaDesigner application.

- Screen items set in main form
- Icon to transit to each processing screen (Update / Refer)
- Icon to delete the data registered in application



Note

If the icon to execute the process (update / details / delete) is not set in the authorization setting of a separate IM-FormaDesigner, it is not displayed in the user screen.

Function and description of each part of list display field setting screen

The contents of list display field setting screen are as follows.

1. Add

Register the contents set as list display screen of application.

2. List of selected item

Display the fields which can be set in list display screen.

The following fields can be set in the list.

- Items set in the main form which can be entered / selected
- "Edit" It is the icon to display the update screen.
- "Delete" It is the icon to delete the registered data displayed in the list.
- "Details" It is the icon to display the reference screen.
- "PDF" It is the icon to download the contents of reference screen as PDF.

Set the fields to be displayed in the list

Step 1 : Display list field setting screen

1. Click "Displaying list item setting" tab of application basic information screen.
2. List field setting screen is displayed.

Step 2 : Register list

1. Select (display is reversed) the fields to be displayed in the list in "List of selected item" on the left and click "Select".
2. If the fields selected in "Displaying item list" are displayed, display image is displayed in "Preview displaying list" at the bottom of the screen.
3. Add the required fields in "Displaying item list" with reference to list preview.

4. List alignment sequence (left -> right) corresponds to (Top -> Down) of "Displaying item list". If the alignment sequence is to be changed, select the field in "Displaying item list" and set to an optional location by clicking "Up" and "Down" at the right.
5. If "Register" is clicked after completing the settings, list screen of corresponding application is generated automatically. When the list is to be displayed, set it such that it is called from separate menu setting etc.

Displaying list item setting

The screenshot shows the 'Displaying list item setting' tab selected in the top navigation bar. The left panel shows 'Additional description' and 'locale'. The main panel shows 'Displaying item list' with fields: Equipment Name, Maker, Minimum Quantity, Purchase Unit, Color, Company, Size, Price, and Details. To the right of the list are up/down arrows for reordering. Below this is a 'Preview displaying list' section showing a table with columns: Equipment, Maker, Minimum Q, Purchase U, Color, Company, Size, Price, Details, Edit, Delete, and PDF. The 'Edit' column contains a pencil icon, and the 'Delete' column contains a trash bin icon.

Change the field displayed in the list

Step 1 : Display list field setting screen

1. Click "Displaying list item setting" tab of application basic information screen.
2. List field setting screen is displayed.

Step 2 : Change list fields

Add list fields

1. Select (Display is reversed) the fields to be displayed in the list in "List of selected item" on the left and click "Select".
2. If the fields selected in "Displaying item list" are displayed, display image is displayed in "Preview displaying list" at the bottom of the screen.
3. Add the required fields in "Displaying item list" with reference to list preview.
4. List alignment sequence (Left -> Right) corresponds to (Up -> Down) of "Displaying item list". If the alignment sequence is to be changed, select the field in "Displaying item list" and set at an optional location by clicking "Up" and "Down" on the right.
5. When "Update" is clicked after completing the settings, list screen of corresponding application is generated automatically.

Delete list fields

1. Select (Display is reversed) the fields to be deleted (not displayed) from list in "Displaying item list" on the left and click "Delete".
2. If the fields selected in "List of selected item" are moved, display image is displayed in "Preview displaying list" at the bottom of the screen, however, confirm that selected fields are not displayed.
3. Cancel the fields to be deleted (not displayed) from "Displaying item list" with reference to the list preview.
4. When "Update" is clicked after completing the settings, list screen of corresponding application is updated automatically.

Delete fields displayed in the list

Delete the list when list screen settings are returned to the initial state (delete the screen itself).

When the remaining fields are added / deleted in list screen, execute the "Change the field displayed in the list" mentioned above.

Step 1 : Display list setting screen

1. Click "Displaying list item setting" tab of application basic information screen.
2. List field setting screen is displayed.

Step 2 : Delete list setting

1. If "Delete" on the top of screen is clicked, list display is canceled (deleted).

**Note**

When list is registered in the menu and menu is clicked without canceling the menu settings, transition takes place to the error screen.

Set authorization to use application

It describes about the display of list settings of application, display of registration screen/edit screen of data from list screen and the method to set (authorization settings) deletion of data for specific user or organization in list screen.

Contents

- [Function and description of each part of authorization settings screen](#)
- [Grant Authorizations of IM-FormaDesigner](#)
- [Update authorization setting of IM-FormaDesigner](#)
- [Revoke Authorization of IM-FormaDesigner](#)

Function and description of each part of authorization settings screen

The contents of authorization settings screen of application are as follows.

The screenshot shows the 'Privilege setting' screen of the IM-FormaDesigner application. At the top, there are tabs for Application information, Form setting, Table setting, Privilege setting (which is selected), Menu setting, and Displaying list item setting. Below the tabs, there are five sections labeled (1) through (5):

- (1) Role:** A table with columns for Edit, Role name, Display name, and Privilege. It shows one entry: 'form_a_app_manager' with 'Forma application creation manager' as the display name and 'Addable,Updatable,Deletable' as the privilege.
- (2) User:** A table with columns for Edit, User code, User name, and Privilege. It shows one entry: 'ueda' with 'ueda tatsu' as the user name and 'Addable,Updatable,Deletable' as the privilege.
- (3) Organization:** A table with columns for Edit, Company code, Organization set code, Organization code, Organization name, and Privilege. There are no entries shown.
- (4) Public group:** A table with columns for Edit, Public group set code, Public group code, Public group name, and Privilege. There are no entries shown.
- (5) Registrant option:** A table with a single column for Privilege, showing 'No setting'.

1. Role

Authorization settings status can be checked for the role and Authorizations can be granted/revoke (deleted).

2. User

Authorization settings status can be checked for the user and authorization can be granted/revoke (deleted). (In case of granting authorization, it is necessary to previously set the reference authorization (permission) of the company to which the search target user of IM common master belongs.)

3. Organization

Authorization settings status can be checked for the organization and Authorization can be granted/revoke (deleted). (In case of granting Authorization, it is necessary to previously set the reference authorization (permission) of the company to which the search target organization of IM common master belongs.)

4. Public group

Authorization settings status can be checked for the public group and authorization can be granted/revoke (deleted).

5. Registrant option

Regardless of the type of authorization that are set, update / delete authorization is granted only for the data registered by the user.

Types of "Authorization settings of IM-FormaDesigner"

In authorization setting of IM-FormaDesigner, set as per the requirement by combining the executable operations summarized in the following table.

Screen	Screen of list display					Registration screen
	Icon	Add	Update	Delete	Detail	
Referencable	o	x	x	x	o	x
Updatable	o	x	o	x	o	x
Deletable	o	x	x	o	o	x
Updatable,Deletable	o	x	o	o	o	x
Addable	x	x(※)	x	x	x	o
Addable,Referencable	o	o	x	x	o	o
Addable,Updatable	o	o	o	x	o	o
Addable,Deletable	o	o	x	o	o	o
Addable,Updatable,Deletable	o	o	o	o	o	o



Note

o -> Corresponding icon is displayed (process can be executed).

x -> Corresponding icon is not displayed (error message is displayed while executing the process).

*Register icon is one of the items on the list display screen, it is considered to be x (hidden) since the list cannot be displayed.

Registrant option

In Authorization setting of IM-FormaDesigner, even though the Authorization wherein update / delete cannot be executed (register/reference possible, register/update possible, register/delete possible, etc.) is set, it is the setting for enabling update / delete for the data registered by the user. When this option is set, there may be a restriction that only the data of registrant can be updated / deleted.

**Warning**

Furthermore, even in case of registrant option setting, if the application is executed from list screen (only list screen is registered in menu and registration screen is not registered in menu), note that user for whom the type of Authorization is changed to "Registration possible", cannot refer / update / delete the data registered by the user himself in the past.
* indicates the authorization settings table mentioned above.

Grant Authorizations of IM-FormaDesigner**Step 1: Display the Authorization setting screen**

*The following procedure is explained from the screen after login to intra-mart Accel Platform.

- ▣ From the menu, move to "Create Forma Apps" -> "Application list".
- ▣ Click "Edit" icon of the application to be set from "Application list".
- ▣ Click "Privilege setting" tab of application information.

Step 2: Set Authorization

- ▣ Click "+" icon on the left of authorization target type (role / user / organization / public group) for which the application range is to be set.
- ▣ Click "Add" of the displayed column.
- ▣ Select the target (role / user / organization / public group) from 'Search'.
- ▣ Select the type of authorization to be set.
- ▣ Click "Add", and save the settings.

Update authorization setting of IM-FormaDesigner

Step 1: Display the authorization setting screen

*The following procedure is explained from the screen after login to "intra-mart Accel Platform".

- From the menu, move to "Create Forma Apps" -> "Application list".
- Click "Edit" icon of the application to be set from "Application list".
- Click "Privilege setting" tab of application information.

Step 2: Set Authorization

- Click "Edit" of the change target of the authorization target column for which Authorization setting of IM-FormaDesigner is already performed.
- Change "Authorization".
- Select type of Authorization to be set.
- Click "Update", and save the settings.

Revoke Authorization of IM-FormaDesigner**Step 1: Display the authorization settings screen**

*The following procedure is explained from the screen after login to intra-mart Accel Platform.

- From the menu, move to "Create Forma Apps" -> "Application list".
- Click "Edit" icon of the application to be set from "Application list".
- Click "Authorization settings" tab of application information.

Step 2: Delete (cancel) authorization settings

- Click "Edit" of the change target of the Authorization target column for which Authorization setting of IM-FormaDesigner is already performed.
- Click "Delete", and save the settings.

Create Web application to be linked with DB of external system**Create an application in IM-FormaDesigner**

The outline of the procedure to create a Web application in IM-FormaDesigner and to perform the settings of IM-Workflow is described below.
Perform the operations according to the procedure of the corresponding page after checking the necessary procedures on this page.

Basic procedure to create an application in IM-FormaDesigner

It is the basic procedure to create an application in IM-FormaDesigner .

Step 1 : Register basic information of application

- Set the language to be used (**Locale**) and purpose of usage (Web application, IM-Workflow contents) etc., for the application to be created.

Step 2 : Create form

- Create a screen component called "Form" created in IM-FormaDesigner and set it to the screen to be used in the application.

Step 3 : Create table

- Create a table to store the data registered from the created application in the database.
- Since the table can be created automatically by the click operation, database knowledge related to SQL etc., is not required.

Step 4 : List display, set authorization

- Perform the settings (list display settings) to view the data registered from the application in a list and the settings (authorization settings) to restrict the users who can use the application.

Step 5 : Register in menu

- Register in the menu to execute the created application.

Create / Update / Delete query

The setting to query data acquired from the database prepared previously in the application created in IM-FormaDesigner .

Further, it is assumed that there is information (connection information, physical name of table and column etc.) related to the database of acquisition source and basic knowledge related to database operations for the creation of data source definition.

Contents

- [Data source definition](#)
- [Tenant DB query and shared DB query](#)
- [Function and description of each part of query registration screen](#)
- [Function and description of each part of query registration details screen](#)
- [Create shared DB query](#)
- [Create tenant DB query](#)
- [Use the created data source definition from an application](#)
- [Change data source definition](#)
- [Delete shared DB query](#)

- o Delete tenant DB query

Data source definition

Data source definition is a function to create a program (query) to acquire data from data source that can be set in screen field (screen item) of IM-FormaDesigner application.

Basic knowledge is required to operate the database for creating a "Query" to acquire the data.

Tenant DB query and shared DB query

"Tenant DB query" and "Shared DB query" are the two **Query**.

The query to be used is determined by whether the database to acquire the data is intra-mart Accel Platform related or related with external system (ERP system etc.).

Tenant DB query

This query is to acquire various types of data (IM common master etc.) managed on intra-mart Accel Platform.

Shared DB query

This query is to acquire the data of system other than intra-mart Accel Platform.

Check with the system administrator for the data source settings required to link with other systems.

Function and description of each part of query registration screen

The contents of registration screen of query are as follows.

1. Query name

Enter the name to be displayed in "Data source name" when used in "Query list (shared DB)" and screen item.

2. Remarks

Enter the explanatory note of the query.

Display the entered explanatory note in "Data source name" when used in "Query list (shared DB)" and screen item.

Function and description of each part of query registration details screen

The contents of registration details screen of query are as follows.

Edit query details [Shared database]

(1) Query name: Sample shared query

(2) Connection ID: (dropdown menu)

(3) SQL:

```
SELECT column1 as col1
FROM sample_table
WHERE column2 = ?
    AND column3 IN ( ?, ? )
```

(4) Input value + Add

	The value to test	Data type	Logical name	Delete
IN 1	<input type="text"/>	VARCHAR	English Condition item1 Japanese 条件項目1 Chinese 条件项目1	-
IN 2	<input type="text"/>	VARCHAR	English Condition item2-1 Japanese 条件項目2-1 Chinese 条件项目2-1	-
IN 3	<input type="text"/>	VARCHAR	English Condition item2-2 Japanese 条件項目2-2 Chinese 条件项目2-2	-

(5) Output value + Add

	Column name	Data type	Logical name	Delete
OUT 1	<input type="text"/>	VARCHAR	English Acquiring item1 Japanese 取得項目1 Chinese 取得项目1	-

Run the test Add

1. Query name

Display the query name set in step 2.

2. Connection ID

Set only in case of shared DB query.
Contact the system administrator if it is not displayed.

3. SQL

Enter the SQL to be executed as data source.
Consider only SELECT statement for the SQL to be described.



Warning

The query specified here is executed as a sub query.
Therefore, when 'ORDER BY' clause is specified in a query, it causes an error in SQLServer.
Do not specify 'ORDER BY' clause in SQLServer.

4. Input value

- The value to test : Enter a value to be substituted in the column (table field) described in the condition (WHERE clause) of data processing described in "SQL". Enter a value assumed to be entered from the screen item of application.
- Data type : Select the data type corresponding to the field from any one of character type (VARCHAR), numerical type (NUMBER), date type (DATE), timestamp type (TIMESTAMP).
- Logical name : It is used as the Field ID name to be displayed in "Parameter setting" while using data source by screen item.
- Add / Delete : Input value can be added / deleted.

5. Output value

- Column name: Enter the Field ID name to be output when data processing described in "SQL" is SELECT (data extraction). Enter the fields to be displayed in screen item of application. In case of multiple settings, search result can be reflected in fields other than screen item "Select from list".

- Data type : Select the data type corresponding to the field from any one of character type (VARCHAR), numerical type (NUMBER), date type (DATE), timestamp type (TIMESTAMP).
- Logical name : It is used as the Field ID name to be displayed in "Obtained value setting" while using data source by screen item. It is possible to use up to 20 characters.
- Add / Delete : Input value can be added / deleted.

**Note**

Consider the following points when setting the output value.

- When any of the following settings are performed in the column name settings of output value, data cannot be obtained correctly by datasource definition when running the application.
 - Column name of output value should contain uppercase characters
 - Same column name should be set to more than 2 output values in similar datasource definitions
 - When output value settings of Query detail settings are updated, reset the screen item calling the corresponding datasource definition.
- If the screen item is not reset, the contents updated by datasource definition are not reflected.

Create shared DB query**Step 1 : Display shared DB query registration screen**

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma App Make Management" -> "Data source definition" -> "Shared DB Query" -> "Query list [Shared database]" from the menu.
- Click "Add" button at the top of "Query list (shared DB)".

Step 2 : Enter query information

- Enter the required information as registration screen of query information is displayed and register the query by clicking "Add" button.
- The information registered here can be changed with some exceptions.

Step 3 : Set the SQL to be executed and DB connection information to be used in query

- Describe the connection information (connection ID) of the database to be used and the SQL to be executed in "Edit query details".

Step 4 : Test setting contents of query "Run the test"

- Click "Run the test" to confirm whether the assumed data processing is to be executed by the created query.
- If the setting contents are inadequate, an error message is displayed. Hence modify as per the error message.

Step 5 : Save query

- In test result, if there is no error in query settings, click "Add" to register the query.

Create tenant DB query**Step 1 : Display tenant DB query registration screen**

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma App Make Management" -> "Data source definition" -> "Tenant DB query" -> "Query list [tenant database]" from the menu.
- Click "Add" button on the top of "Query list [tenant database]".

Step 2 : Enter query information

Enter the required information as registration screen of query information is displayed and register the query by clicking "Add" button.
The information registered here can be changed with some exceptions.

Step 3 : Set the SQL to be executed in query

- Describe the SQL to be executed in "Edit query details".

Step 4 : Test the setting contents of query "Run the test"

Click "Run the test" to confirm whether the assumed data processing is to be executed by the created query.
If the setting contents are inadequate, an error message is displayed. Hence modify as per the error message.

Step 5 : Save query

In test result, if there is no error in query setting, click "Add" to register the query.

Use the created data source definition from an application

The procedure to use the created data source definition from screen item is described below.

Step 1 : Create form

Refer "Create application form" section for more details on procedure.

Step 2 : Set screen item that uses data source

Set the screen items that refer the created data source definition on the form.



Note

The screen items that can use data source definition are as follows.
Select from list, checkbox, radio button, select box, list box

Step 3 : Set data source definition in screen item

Set the data source information in the screen items set in step 2.

- Display property of the set screen item.
- Click "Selection data" tab.
- Click magnifying glass icon on right side of input field of "Data source name".
- Click the query name to be used from the queries displayed in "Query list".

Step 4 : Set the contents to be used in screen item

Set how to use the data source definition selected in step 3 in screen item.

Set screen title / display field of list selection

- Only list selection can be set.

The screenshot shows the 'Properties' dialog and the 'Selection from list' dialog. In the 'Properties' dialog, under the 'Basic configuration' tab, the 'Datasource name' is set to 'Search equipment'. In the 'Display style' tab, under 'Select list', the 'Screen title' is set to 'Selection from list'. The 'List display item' list contains fields: 'equipment_no', 'maker', 'price', and 'company'. In the 'Selection from list' dialog, the 'Equipment name' column lists items: Note, Ballpoint pen, Memo stand, Pencil, and Felt pen. The 'Maker' column lists icons: ◊◊◊, ○○○, XXX, △△△, and ▽▽▽. The 'Price' column lists values: 120, 100, 300, 50, and 150. The 'Company' column lists icons: ◊◊◊, ○○○, XXX, △△△, and ▽▽▽.

1. Screen title : Displays the name set in screen title.
2. List display item : Set in the acquisition target field of data source definition and display the field which is set in list display field by the following list selection screen setting.

The Setting procedure of list selection screen is as follows.

1. Click "List selection screen" of "Selection data" and display the setting section.
2. Enter the title (screen name) to be displayed in 'Selection from list screen' in "Screen title".
3. Set the items (columns) to be displayed in 'Selection from list screen' in "List display item".
 - The items set (in order from top) in List display item are displayed from left to right on list display screen.
 - The fields set in hidden fields are not displayed on the screen which is displayed by the magnifying glass icon.

Set the condition value at the time of executing data source setting

1. Click "Parameter setting" of "Selection data" and display the setting section.
2. Set the value (parameter) passed by processing condition (WHERE clause) set in data source definition by using fixed value or evaluation formula that can be used in "Function item".

Set the fields that display / send the data acquired in data source definition

- In case of Select from list
 1. Click "Obtained value setting" of "Selection data" and display the setting section.
 2. When multiple fields are acquired by data source definition, the fields reflected in text box of Select from list can be selected. Moreover, the acquired field can be reflected in other items on the form.
- In case of checkbox, radio button, select box and list box
 1. Click "Obtained value setting" of "Selection data" and display the setting section.
 2. From the acquired fields of data source definition, set the value to be displayed on the form to "Display value" and the value to be stored in the table (**Header table**) that manages input data to "Send value".

Step 5 : Save form

After the completion of the settings, click "Update" from the toolbar of form designer screen and save the form.

Change data source definition

Transit to the screen that edits the created query information and query details by 'Edit'.

After transition, register and save the required information by the procedure same as during new creation.

Delete shared DB query

Step 1 : Display shared DB query edit screen

*The following procedure is described from the screen after login into intra-mart Accel Platform.

- Move to "Forma App Make Management" -> "Data source definition" -> "Shared DB query" -> "Query list (shared database)" from the menu.
- Click "Edit" button of the query of "Query list (shared database)" which is to be deleted.
- Shared DB query edit screen is displayed.

Step 2 : Delete shared DB query

- Shared DB query (data source definition) is deleted if "Delete" on the bottom of shared DB query edit screen is clicked.

Delete tenant DB query

Step 1 : Display tenant DB query edit screen

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma App Make Management" -> "Data source definition" -> "Tenant DB query" -> "Query list (tenant database)" from the menu.
- Click "Edit" button of the query of "Query list (tenant database)" which is to be deleted.
- Tenant DB query edit screen is displayed.

Step 2 : Delete tenant DB query

- Tenant DB query (data source definition) is deleted if "Delete" on the bottom of tenant DB query edit screen is clicked.

Set basic information of IM-FormaDesigner application

The method to register the basic information of application created in IM-FormaDesigner is described below.

Contents

- [Basic information of IM-FormaDesigner application](#)
- [Function and description of each part of application registration screen](#)
- [Create new application of IM-FormaDesigner](#)
- [Update IM-FormaDesigner application](#)
- [Delete IM-FormaDesigner application](#)

Basic information of IM-FormaDesigner application

Retain the application name, history management (version) information for fixed period and target display language settings as the basic information of application in IM-FormaDesigner.

Control of available period or switching of display language is performed for the Web application of IM-FormaDesigner based on the contents set in basic information.

Function and description of each part of application registration screen

The contents of registration screen of application are as follows.

Add application	
(1) Application id *	<input type="text"/>
(2) Application type *	Standard
(3) Valid start date *	<input type="text"/> <input type="button" value="Calendar"/>
(4) Valid end date	<input type="text"/> <input type="button" value="Calendar"/>
(5) Target locale(s)	English Add target locales <input type="button"/>
Set at least one locale.	
English <input type="button"/>	
(6) Application name *	<input type="text"/>
(7) Remarks	<input type="text"/>
<input type="button" value="Add"/>	

1. Application ID

Enter the name for identification within the IM-FormaDesigner system using single byte alphanumeric characters and underscore ("_").

2. Application type

Select whether the application created in IM-FormaDesigner is to be used as Web application or to be used by linking with IM-Workflow.

- Standard : Use IM-FormaDesigner application as an independent Web application.
- IM-Workflow : IM-FormaDesigner application by linking with IM-Workflow.

3. Valid start date

Set history start date of the first version to be stored in the application created in IM-FormaDesigner.
The created application can be used from this set date onwards.

4. Valid end date

Set history end date of the first version to be stored in the application created in IM-FormaDesigner.
The created application can be used till this set date.

*If input is omitted, system end date (default is 2999/12/31) of intra-mart Accel Platform is set.

5. Target locale(s)

Select **Locale** to be used in application created in IM-FormaDesigner.
When the application is to be used, the user should log into intra-mart Accel Platform in the set locale.

6. Application name

Enter the name of the application to be created in IM-FormaDesigner.
The entered name can be used as display in menu or as initial value of job name at the time of linking with IM-Workflow.

7. Remarks

Enter the description of application.
Display the entered descriptive text in 'Remarks' of the application list.

Create new application of IM-FormaDesigner

Step 1 : Display application registration screen

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- Click "Add" button at the top of "Application list".

Step 2 : Enter application information

Since registration screen of application information is displayed, enter the required information and register the version of application.
The information registered here can be changed with some exceptions.

Update IM-FormaDesigner application

Application history management

Multiple "Application history" can be registered in one application of IM-FormaDesigner.
When "Application history" is used, switching to a screen to be used for fixed period is possible, hence after the end of the set period, it is possible to automatically switch and use the subsequent screen (form) for set period.



Note

If the valid time in multiple "Application history" overlaps, larger number of application history number becomes valid.

Step 1 : Display application history registration screen

To switch an application form created in IM-FormaDesigner in fixed period, the information (application history) of the period to apply for a new form should be added first.

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- ▣ Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- ▣ Click "Edit" of the application in which application history is to be added in the "Application list".
- ▣ Click "Form list" tab from "Application information".
- ▣ When "Add" in "Application history list" is clicked, transition takes place to additional screen of application history information.

Step 2 : Register application history information

- ▣ Enter application start date for new application (form) in "Valid date (Start)". (If Valid date (End) is not entered, 2999/12/31 is set as the default.)
- ▣ New application history information is registered when "Add" is clicked.

Step 3 : Edit form layout

- ▣ Click "Form list" tab in "Application history information".
- ▣ Since form information registered in application history information previously is displayed, click "Edit form" of the form which is to be edited.
- ▣ Edit the layout of form according to the procedure of "Create application form".
- ▣ Form editing is complete when information such as transition information is changed.

Delete IM-FormaDesigner application

Describes about the deletion of application created in IM-FormaDesigner when it is not linked with IM-Workflow.

Refer **[Remove \(Delete\) IM-Workflow linkage information](#)** for the deletion procedure when linked with IM-Workflow .

Step 1 : Display application information screen

- ▣ The following procedure is described from the screen after login to intra-mart Accel Platform.
- ▣ Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- ▣ Click "Edit" of the application in which application history is to be added in "Application list".

Step 2 : Delete application

- ▣ Click "Delete" in "Application information".
- ▣ Message showing "Are you sure you want to delete application information?" is displayed.
 - ▣ In case header table / Detail table of the application is to be deleted, if "Delete the table which stores application data." check is set to ON and "OK" is clicked, then the application is deleted.
 - ▣ In case registered data is to be used from the application even after deleting the application, if "Delete the table which stores application data." check is set to OFF and "OK" is clicked, then only the application is deleted.
 - ▣ If application management company is set when the application is deleted, the information of application management company setting is also deleted simultaneously.

Create application form

The method to create a screen component called as form which configures an application is described below.

Contents

- ▣ [Application form](#)
- ▣ [Function and description of each part of form list screen](#)
- ▣ [Function and description of each part of form registration screen](#)
- ▣ [Function and name of each part of form designer screen](#)
- ▣ [Create / edit application form](#)
- ▣ [Delete application form](#)
- ▣ [Use multiple forms in application](#)

Application form

The component which is the "Screen" of application created in IM-FormaDesigner is called as "Form".

In 'Application', application with multiple screen transitions can be created by creating a form other than the main form created initially.

Main form

Main form is the initial setting of screen (form) used by each process (register / refer / update) in the application created in IM-FormaDesigner.
The fields in main form are the table fields to manage the data entered in application form or application created in IM-FormaDesigner.

Function and description of each part of form list screen

The contents of form list screen are as follows.

(2)	(3)	(4)	(5)	(6)
Edit	Edit form	Preview	Form name	Form remarks
			Main Form	The screen to input the information of the equipment to register or update.
			Form2	The screen to confirm the inputs.
			Form3	The screen to refer the inputs.

1. Add

Display the form registration screen.

2. Edit

Display the edit screen of registered form.

3. Edit form

Transit to edit screen layout (form designer screen) of registered form.

4. Preview

Display preview screen of registered form.

5. Form name

Display the registered form name.

6. Form remarks

Display the remarks of registered form.

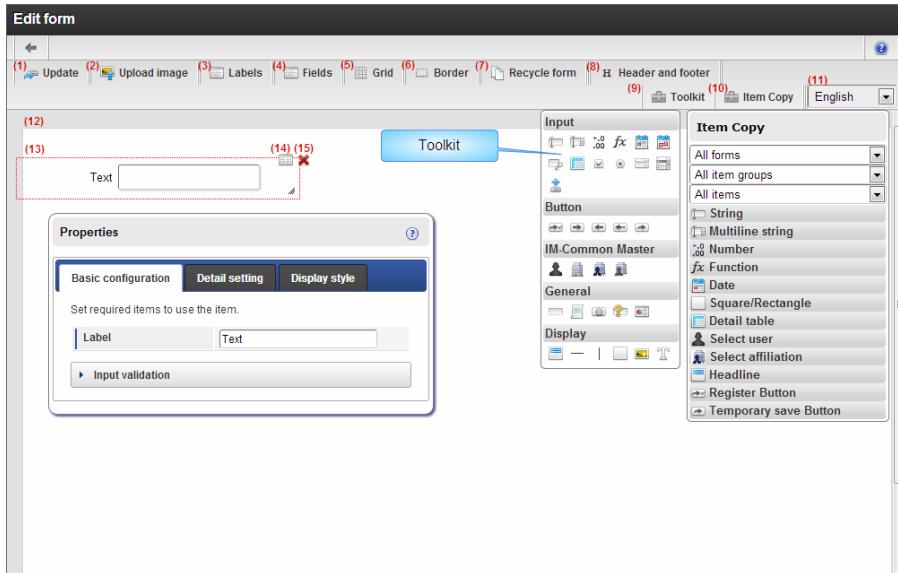
Function and description of each part of form registration screen

The contents of form registration screen are as follows.

Add form	
English	
(1) Form name *	<input type="text"/>
(2) Form remarks	<input type="text"/>
Japanese	
Form name *	<input type="text"/>
Form remarks	<input type="text"/>
Chinese	
Form name *	<input type="text"/>
Form remarks	<input type="text"/>
Add	

Function and name of each part of form designer screen

The contents of form designer screen are as follows.



1. Update

Save the setting contents of form designer screen in form data.

2. Upload image

Display the screen to upload the image file which can be set in image selection of screen item "Image".

3. Labels

Display label item list of the items set in the form.

The items set as label of items are displayed in a list.

4. Fields

Display the input field list of the items set in the form.

Only the items having input fields are displayed in the list. Items such as display items, which do not have input fields are not displayed.

5. Grid

Display grid in form preview area.

6. Border

Always display the border of the set items.

The border color is red for the selected items and the other items are displayed in black color.

7. Recycle form

Load the registered form.

Form settings can be loaded from other application or history of same application.

Since form setting contents are "Read", when form information is saved after loading, it is overwritten in the form under edit of the application which is currently being edited.

The contents of the registered form selected in reuse list are not changed.

When search conditions such as application ID etc. are entered and 'Search' button is clicked, list of forms matching the criteria is displayed.

When radio button of the form to be used from the list is checked and "OK" button is clicked, it is reflected to the form designer screen to load the form.

When 'Preview' icon is clicked, preview screen of corresponding form is displayed in a popup.

Note that when the form is loaded, unsaved edit contents of the form under display are deleted.

8. Header and footer

Display the screen to set header and footer in the form.

9. Toolkit

Display the toolkit which saves the items which are classified according to the categories.

Each item is arranged in the form by drag & drop.

Toolkit is hidden by double clicking on it or by clicking the toolkit icon.

Open and close by clicking the classification of items.

Moreover, item name is displayed by placing the cursor on each item.

10. Item Copy

Display the list of form fields used in application to allow the items share a value between different forms within the same application.

The items for which "Add to DB" is enabled (check is ON) in the input / select items having Field ID are considered to be displayed in the list.

11. Locale

When multiple locales are set in an application, preview of the locale selected by select box is displayed.

12. Form preview area

It is the preview of the form being created.

Position and appearance etc. of the set items is displayed in the same way as when the form is used in practice.

13. Arranged items

These are the items set in the form.

14. Properties (icon)

Display the property setting screen of set items.

Property screen can be also displayed by double clicking the set item.

15. Delete (icon)

Delete the set item.

Create / edit application form

The method to create form in form designer screen is described below, however, also refer "IM-FormaDesigner for Accel PlatformDesigner Help" for the detailed description of function of each screen.

Step 1 : Display form designer

<<When "Register" in application information is clicked>>

- Form designer is displayed after "Add" button is clicked.

<<When form is to be created in registered application from menu>>

1. In "Application list", click "Edit" icon of application that creates the form.
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" of "Application history information".
 - When the form to be edited is displayed in the list, click the "Edit form" icon.
 - When the form to be edited is not displayed in the list, click "Add".
 - Create form by entering form name in "Form name" and description in "Remarks".
5. Display form designer screen.

Step 2 : Set item in form preview area

1. Click "Toolkit" from the form designer screen toolbar and display the popup of screen items which can be set in the form.
2. Arrange the items to the form preview area by drag & drop.
3. The required items are set.
 - Make sure to set screen item "Button (Register)" for registration of data as web application or execution of application (approval) process from the form by linking with IM-Workflow .

<<When multiple items are to be selected and set>>

- Multiple items can be selected and set collectively for some setting items in form designer.
The contents which can be set are as follows.

- Move the position of multiple selected items by dragging
- Align (left alignment, right alignment, top alignment) multiple items
- Copy and paste multiple items collectively
- Delete multiple items collectively
- When OS of personal computer of application maker is Windows
 - Multiple target items can be selected by pressing the "ctrl" key (border is blue dotted line).
 - When the state in which multiple items are selected is to be released, click any location on form designer.
- When OS of personal computer of application maker is Macintosh
 - When "Multiple selection" is clicked in the context menu displayed by right clicking on canvas of form designer, it changes to multiple selection mode.
 - At the time of multiple selection mode, multiple items can be selected when the items to be set collectively are clicked. (border is blue dotted line)
 - When the state in which multiple items are selected is to be released, similar to the multiple selection mode setting, right click and display the context menu and click "Release multiple selection".

<<In case of arranging the items by aligning>>

- Select multiple target items.
- When multiple items are selected, right click and display the context menu.
- Click "Left alignment", "Right alignment" or "Top alignment" of the context menu as per the standards of aligning.
- Items are arranged in the selected order.



Note

Arrangement of items can be aligned as per following by the selected menu.

- Left alignment
From the selected items, the horizontal position (Value of position "X" of property item) of the item is aligned to the extreme left (small) item.
- Right alignment
From the selected items, the horizontal position (Value of position "X" of property item + item size width) of the item is aligned to the extreme right (large) item.
- Top alignment
From the selected items, the vertical position (Value of position "Y" of property item) of the item is aligned to the topmost (small) item.

<<When items are set by copy and paste>>

- Copy the item by clicking "Copy" in the context menu displayed by right clicking the item to be copied.
- In form designer, right click at the location where the copied item is to be pasted, display the context menu and click "Paste" to paste the item.

**Note**

When OS of personal computer of application maker is Windows, item can be copied using short cut keys "Ctrl"+ "C" and pasted using "Ctrl"+ "V".

Step 3 : Change item size, set input check

Since a default value is set in the attribute (type and size of characters which can be entered) of each item set in step 2, it is changed according to the requirement.

Refer "IM-FormaDesigner for Accel PlatformDesigner help" for the details of items which can be changed.

- Display / hide screen item property
 - When property of screen item is to be displayed, click the property (icon displayed on top right after selecting the screen item or double click the screen item.
 - When property of screen item is to be closed, click on any location outside the property or double click on property.

<<When display size of item is to be changed>>

- Change the display width of label (name) of field
 1. Click the corresponding item and click "Property" icon.
 2. Click "Display style" of the displayed property window.
 3. Enter the width to be set in "Label width" in pixel units.
- Change the width of input column of field
 1. Click the corresponding item and click "Property" icon.
 2. Click "Display style" of the displayed property window.
 3. Enter the width to be set in "Field width" in pixel units.

<<When check is to be set for characters entered in item>>

1. Click the corresponding item and click "Property" icon.
2. Click "Input field" of the displayed property window.
3. Click "Input validation" in the middle of the window and display setting column of check field.
 - Set the corresponding checkbox to "ON" when input is to be made mandatory or when only single byte alphanumeric characters are allowed to be entered.
 - When upper limit / lower limit of number of characters that can be entered is to be set, set as per the following.
 - Set input characters to more than O characters -> Enter characters equivalent to O in "Minimum letters". Consider number of characters equivalent to O as an appropriate value.
 - Set input characters to less than O characters -> Enter characters equivalent to O in "Maximum letters". Consider number of characters equivalent to O as an appropriate value.

Step 4 : Perform display settings for other locales * When multiple locales are set in application basic information

1. Change "Locale" of toolbar of form designer screen to the locale for which label of item is not set.
2. Check property of screen item of form preview area and set fields for locales which are not set.

Step 5 : Confirm setting contents of form

Confirm the setting contents of the entire form after completing each setting operation of form designer.

- Check whether item name and display name can be set correctly.
 1. Click "Labels" from the toolbar of form designer.
 2. The item name on the left and the contents of the label set on the right are displayed. When the contents of label are to be changed, it can be edited by clicking the label column.
- Check the item name and field name of database (Field ID, Field ID name (Japanese))
 1. Click "Fields" from the toolbar of form designer screen.
 2. The item name on the left and the contents of each field set on the right are displayed. When the contents are to be changed, it can be edited by clicking the column of the field which is to be changed.
 - The items that can be changed are tab index and field identifier (Japanese).

Step 6 : Save the contents of form designer

After editing the form, click "Update" from the toolbar of form designer screen and save the form data.

Delete application form**Warning**

Ensure that the form which can be deleted is other than the main form.

Step 1 : Display form designer

1. Click "Edit" icon of the application creating form in "Application list".
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" tab of "Application history information".
5. Click "Edit" icon of form which is to be deleted.

Step 2 : Delete form

1. "Form information" is displayed.
2. Click "Delete".
3. If the message "Are you sure you want to delete?" is displayed, set the "Delete the file which stores form data." check to ON and click OK.
4. Form data is deleted.

**Note**

Note that if deletion is executed when "Delete the file which stores form data." check is OFF, the actual file of form data on intra-mart Accel Platform server is stored as garbage data without being deleted. (The remaining data cannot be reused.)

Use multiple forms in application

Only "Main form" is registered immediately after the registration of application and it is connected to the registration screen, update screen and reference screen.

In IM-FormaDesigner, using forms other than main form in respective screens and setting form transition is possible by [Add form] and [Form transition] setting.

According to the usage, form transition is divided into registration screen transition, update screen transition, reference screen transition.

Registration screen, update screen and reference screen performing screen transition configured in multiple forms can be created by setting the added form to each form transition.

- Registration screen transition It is the form transition used as registration of data and application screen of workflow.
- Update screen transition It is the form transition used as update of data and reapplication screen of workflow.
- Reference screen transition It is a form transition used as reference of data and approval, confirmation and reference screen of workflow.

**Note**

Note that when multiple forms that are different are used in one application, if the screen item set in the main form and the screen item for which Field ID is not corresponding are set in the form other than main form and "Add to DB" is enabled, the value of the item set in the form other than main form cannot be managed in the database.

The procedure to add the form and register in screen transition is as follows.

Step 1 : Display form designer

1. Click "Edit" icon of the application creating form in "Application list".
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" tab of "Application history information".
5. Click "Add".
6. Display form designer screen.

Step 2 : Create form by reusing (copying) main form

1. Click "Recycle form" from the form designer screen toolbar on the form designer screen to create a copy of the added form from the main form.
2. Since the list of registered forms is displayed, set the radio button of form to be used in main form or displayed form.
3. Layout of the selected form is copied.
4. Make necessary changes, click "Update" from the toolbar of form designer screen after editing the form and save the form data.

**Note**

In form transition, the following conditions should be satisfied to receive parameters from the previous form.

- (1)[Field ID] should be same as that of previous form.
- (2)The data type should be same as that of the previous form. (Example : String item and Hidden field for which data type is set to String.)

Step 3 : Register form transition information

1. Click "Form transition list" tab on the "Form list" screen.
2. Click "Edit details" of the setting column to be transited in the added form.
3. Click "Add" link in "Edit form transition details" and display the "Search form" screen.
4. Set the radio button of the added form to ON.
5. Set the order of the form by drag and drop in "Edit form transition details" and click "Update".

**Note**

Table settings should also be performed if the main form is changed.

Set table

The method to create a table to manage the data entered in IM-FormaDesigner is described below.

Contents

- ⦿ **Table setting**
- ⦿ **Function and description of each part of table creation screen**
- ⦿ **Create / update table to manage input data**
- ⦿ **Delete the table to manage input data**
- ⦿ **Recreate table to manage input data**

Table setting

The table to save the data entered in Web application created in IM-FormaDesigner and the application screen for IM-Workflow is created automatically based on the screen items set in "Main form".

Function and description of each part of table creation screen

The contents of table creation screen are as follows.

Item name	Column name	Data type	Data size (5)	Data size(decimal)
Insert id	imfr_sd_insert_id	String	20	
Application id	imfr_sd_application_id	String	100	
Application history number	imfr_sd_application_no	Numeric value	10	0
Version	imfr_sd_version_no	Numeric value	10	0
Registration date	imfr_sd_create_date	Timestamp		
Registrant user code	imfr_sd_create_user_cd	String	100	
Updated date	imfr_sd_record_date	Timestamp		
Update user code	imfr_sd_record_user_cd	String	100	
Temporarily save flag	imfr_sd_preserve_flag	String	1	
Color	imfr_ud_color	String		
Equipment name	imfr_ud_equipment_name	String		
Maker	imfr_ud_maker	String		
Purchase unit	imfr_ud_purchase_unit	String		
Minimum quantity	imfr_ud_minimum_quantity	Numeric value		
Size	imfr_ud_size	String		
Price	imfr_ud_price	Numeric value		
Company	imfr_ud_company	String		
Additional description	imfr_ud_additional_description	String		
Locale	imfr_ud_locale	String		

1. Add

Create a table to manage the application data.

2. Header / Details

Depending on the screen item set in the main form, set header table / details in table unit from the tab.
Create table one by one in Detail table unit.

3. Table name

Set physical name of table to be set in header table and Detail table within 30 characters.

The maximum number of characters of physical name of the table can be changed by configuration file of IM-FormaDesigner.

4. Table definition information

Column name / data type are set automatically based on the setting of the fields for IM-FormaDesigner management and input fields of main form.

5. Data size

Set the required number of digits when the data type of input items set in main form matches with either "Character type" or "Numerical type".

Create / update table to manage input data

Step 1 : Display table setting screen

- ⦿ Click "Table setting" tab of application basic information screen.

- Table setting screen is displayed.

Steps 2-1 : Set column (field) of table

Execute only the 2-1 procedure if "Detail table" of screen items is not used in the main form.

When new application is created and table setting is not performed

- Confirm that "There is no table setting information." is displayed and click "Add".
- The table information wherein the field of screen item for which "Add to DB" check of property field set in main form is ON and the items for internal management of IM-FormaDesigner are set as column of table, is displayed.
- Enter data size of column having "Data type" as "String", "Number" in the screen item column for which the "Add to DB" check of property field is "ON" in the main form.
 - Enter "Data size" for string.
 - Enter 2 fields, "Data size" and "Data size (decimal)" for the numerical value.
- Confirm that no setting is omitted in the setting contents of table and click "Add" on the top of the screen.
- Click "OK" on the registration confirmation message.
- Header table** is created.

**Warning**

Set the value of data size similar to "Maximum letters", "(Number of digits) of maximum input value" of the screen item corresponding to column (field) of table or a greater value.
The unit of data size can be "Byte" according to the type of database used in intra-mart Accel Platform. Enter the number of bytes by referring the number of characters to be entered and character code of database.

When table setting is performed after application creation (Update)

Table setting should be performed if screen items set in main form are added / deleted after the previous table setting.

- Confirm that information of created table is displayed in "Table setting" and click "Update".
- If it is required to add the column corresponding to the screen item added in the table, enter "Data size" and "Data size (decimal)" as per the requirement as it is automatically added and displayed.
- Confirm that no setting is omitted in the setting contents of table and click "Update" on the top of screen.
- Click "OK" on the update confirmation message.
- Table is updated.

Step 2 : Set column (field) of table

When "Detail table" of screen item is used in main form, execute 2-2 procedure after 2-1 procedure.

When "Detail table" of screen item is used within the main form, it is required to create 1 Detail table in the database for 1 Detail table.

- Regarding **Header table**, set "Data size", "Data size (decimal)" according to **Create / update the table to manage input data**.
- In case of the main form in which Detail table is set, click "Detail table" tab as "Header table" "**Detail table**" is displayed by tab.
- The table information wherein the field for which "Add to DB" check of column property field of "Column" set in Detail table is ON and the fields for internal management of IM-FormaDesigner are set as column (field) of table, is displayed.
- Enter data size of the column having "Data type" as "String" "Number" for the column for which "Add to DB" check for column property field is "ON".
- Modify the name of header table and Detail table such that it is within 30 characters and click "Add" on the top of the screen.
- Click "OK" on the registration confirmation message.
- "Header table", "Detail table" are created.

Delete the table to manage input data

Step 1 : Display table setting screen

- ▣ Click "Table setting" tab of application basic information screen.
- ▣ Table setting screen is displayed.

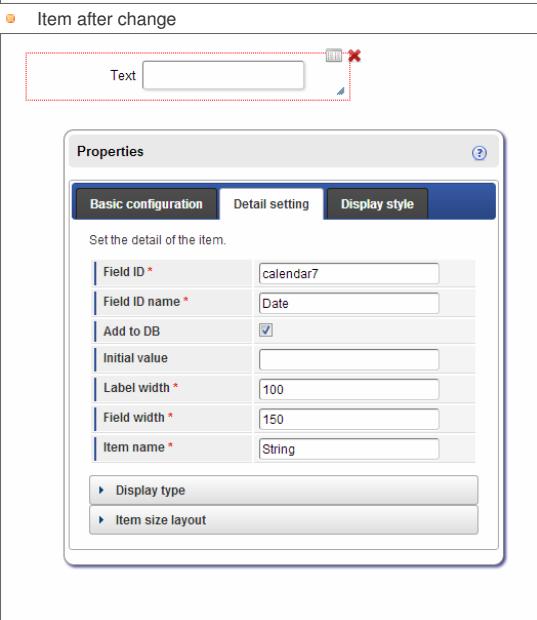
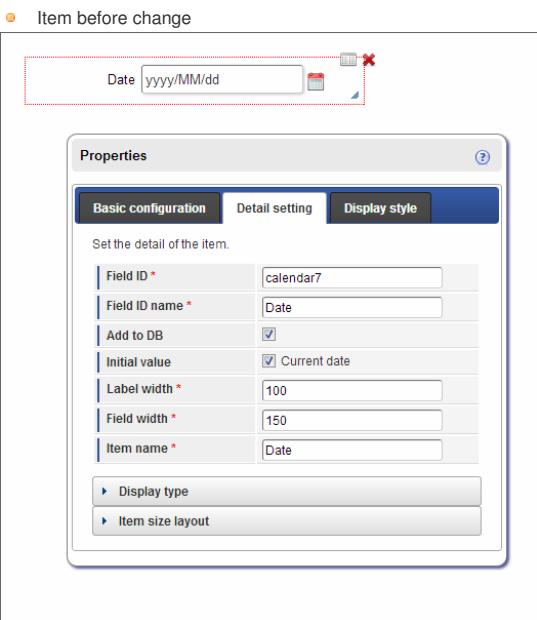
Step 2 : Delete table information

- ▣ Click "Delete" on the bar at the top.
- ▣ The confirmation message "Are you sure you want to delete the table information?" is displayed. If header table / Detail table on the database are also to be deleted, set the check of "Delete the table which stores application data." to ON and click "OK". If the table on the database is not to be deleted, click "OK" without setting the check to "ON".
- ▣ Table is deleted.

Recreate table to manage input data**When it is required to recreate the table**

When main form is changed and it is applicable to the following case, it is required to recreate (delete -> create) the table.

- ▣ Change the data type of item set in table field (Setting screen item of different attribute with same item ID)

**Step 1 : Display table setting screen**

- ▣ Click "Table setting" tab of application basic information screen.
- ▣ Since table setting screen is displayed, click "Refer".
- ▣ Check the setting contents of table.

Step 2 : Save table data

- ▣ When table is recreated, the data registered till that time is deleted, hence when table is to be transited after recreation, create copy of another table by database management tool and save the data.

Step 3 : Delete table information

- Click "Delete" on the bar at the top.
- The confirmation message "Are you sure you want to delete the table information?" is displayed. To delete the header table / Detail table on the database, set the "Delete the table which stores application data." check to ON and click "OK".

Step 4 : Create table

- Change form item.
- Confirm that "Table setting information does not exist" is displayed and click "Add".
- Enter the data size of column having "Data type" as "String" "Number" in the column of screen item for which "Add to DB" check for property field is "ON" in the main form.
- Confirm that the field of table corresponding to screen item for which data type is changed in screen item on main form, is changed.
- Confirm that setting is not omitted in setting contents of table.
- When "Add" on the top of screen is clicked, **Header table**, (**Detail table** if Detail table exists) is created.
- Use the database management tool when the data of the table before deletion is to be inserted into new table.

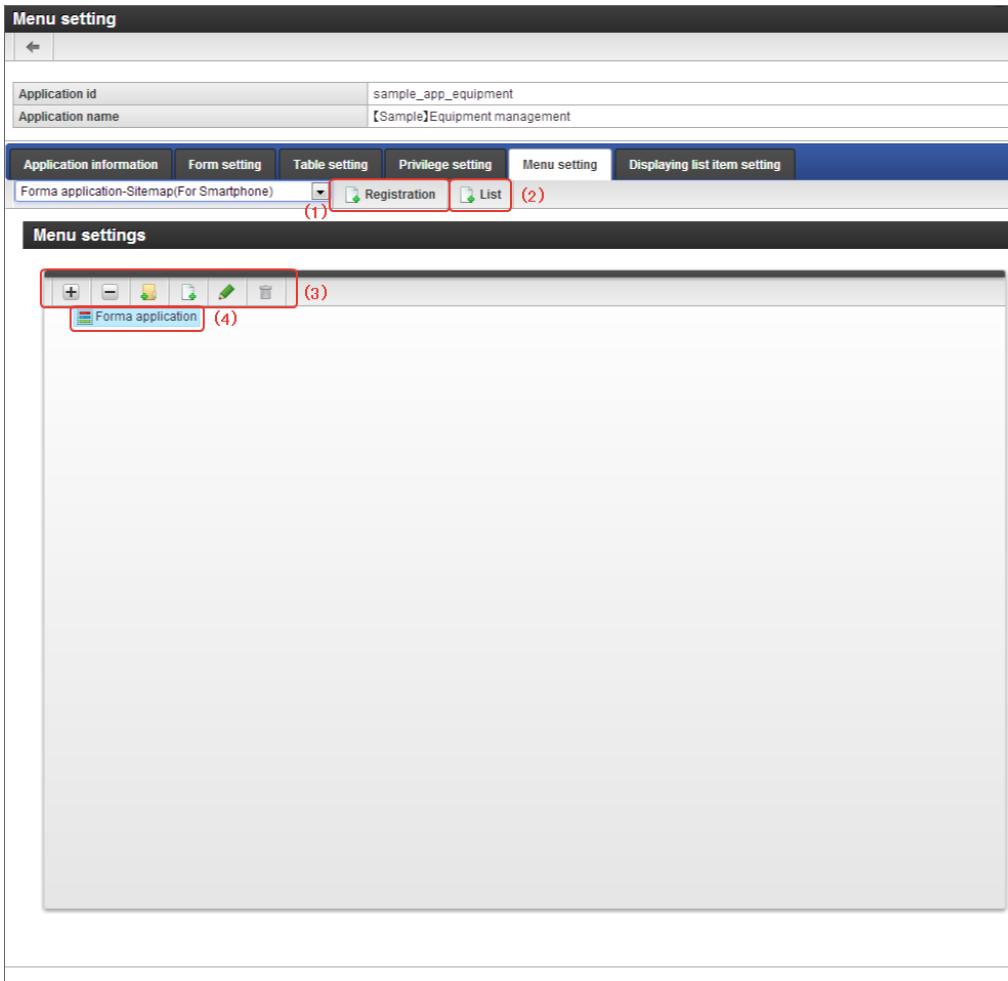
Set menu

The method of registration to the menu of list display screen and registration screen of the application is described below.
Note that it is necessary to logout and login again if the registered menu is to be used from sitemap or global navigation.

Contents

- Function and description of each part of Settings screen of menu configuration**
- Register the registration screen of application in menu**
- Difference in menu item edit screen according to the role set to user**

Function and description of each part of Settings screen of menu configuration



Refer "intra-mart Accel Platform Tenant administrator guide" for more details on menu setting screen.

1. New page (Registration screen)
Registers the registration screen of application as a menu.
2. New page (List screen)
Registers the list display screen of application as a menu.
3. Menu toolbar
Displays the button to operate menu group and menu item of menu tree.



1. Open tree
Displays by expanding the menu group and menu folder under the menu group category.
2. Close tree
Displays by collapsing the menu group and menu folder under the menu category.
3. New folder
Transits to the new registration screen of menu folder.
4. New item
Transits to the new registration screen of menu item.
5. Edit
Transits to the update screen of selected menu group, menu folder and menu item
6. Delete
Deletes the selected menu group, menu folder and menu item.
4. Menu group
Selects the menu group to be set on the menu setting screen.

Register the registration screen of application in menu

Step 1 : Display the settings screen of menu configuration

*The following procedure is explained from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- Click "Edit" icon of the application to be set from "Application list".
- Click the "Menu setting" tab of application information.

Step 2 : Set registration screen in menu

- Click "New page (registration screen)".
- Select "New page (registration screen) under <Menu group> and click "Edit" icon.
- Enter name displayed in menu in "Menu item name" and click "Update".
- Registration screen of application could be registered in menu group.

Difference in menu item edit screen according to the role set to user

The display may change partially depending on the contents of the role set to the user for which menu setting screen is displayed.

Note that if the edit screen of menu item of registered application is opened when "Approval setting administrator" role is assigned to the user, "Authorization setting" button is displayed, however, an error occurs if it is clicked.

This event does not occur when "Approval setting administrator" role is not assigned to the user.

- When "Approval setting administrator" role is assigned to user

Edit menu item							
Menu item ID *	equipment_registration						
Menu item name *	<table border="1"> <tr> <td>English *</td> <td>(Sample)Equipment management</td> </tr> <tr> <td>Japanese</td> <td></td> </tr> <tr> <td>Chinese</td> <td></td> </tr> </table>	English *	(Sample)Equipment management	Japanese		Chinese	
English *	(Sample)Equipment management						
Japanese							
Chinese							
URL *	forma/normal/view/regist_application_view/sample_app_equipment						
Call method	GET						
Authorization settings							

- When "Approval setting administrator" role is not assigned to user

Edit menu item							
Menu item ID *	equipment_registration						
Menu item name *	<table border="1"> <tr> <td>English *</td> <td>(Sample)Equipment management</td> </tr> <tr> <td>Japanese</td> <td></td> </tr> <tr> <td>Chinese</td> <td></td> </tr> </table>	English *	(Sample)Equipment management	Japanese		Chinese	
English *	(Sample)Equipment management						
Japanese							
Chinese							
URL *	forma/normal/view/regist_application_view/sample_app_equipment						
Call method	GET						

Note

List screen can also be set in menu by similar procedure.

Set list display

The data registered / updated from an application created in IM-FormaDesigner can be displayed as a list in an arbitrary field if "List display" is used. However, the list which can be set in this section is not IM-FormaDesigner common list, but it is the list created in each application.



Warning

Note that the "List" handled in this section is a part of IM-FormaDesigner function and is different from the unprocessed and processed list, which are a part of IM-Workflow function.

Contents

- Type of fields which can be displayed in the list
- Function and description of each part of list display field setting screen
- Set the fields to be displayed in the list
- Change the field displayed in the list
- Delete fields displayed in the list

Type of fields which can be displayed in the list

The following fields can be displayed in the list which can be set in IM-FormaDesigner application.

- Screen items set in main form
- Icon to transit to each processing screen (Update / Refer)
- Icon to delete the data registered in application



Note

If the icon to execute the process (update / details / delete) is not set in the authorization setting of a separate IM-FormaDesigner, it is not displayed in the user screen.

Function and description of each part of list display field setting screen

The contents of list display field setting screen are as follows.

1. Add

Register the contents set as list display screen of application.

2. List of selected item

Display the fields which can be set in list display screen.

The following fields can be set in the list.

- Items set in the main form which can be entered / selected
- "Edit" It is the icon to display the update screen.
- "Delete" It is the icon to delete the registered data displayed in the list.
- "Details" It is the icon to display the reference screen.
- "PDF" It is the icon to download the contents of reference screen as PDF.

Set the fields to be displayed in the list

Step 1 : Display list field setting screen

1. Click "Displaying list item setting" tab of application basic information screen.
2. List field setting screen is displayed.

Step 2 : Register list

1. Select (display is reversed) the fields to be displayed in the list in "List of selected item" on the left and click "Select".
2. If the fields selected in "Displaying item list" are displayed, display image is displayed in "Preview displaying list" at the bottom of the screen.
3. Add the required fields in "Displaying item list" with reference to list preview.

4. List alignment sequence (left -> right) corresponds to (Top -> Down) of "Displaying item list". If the alignment sequence is to be changed, select the field in "Displaying item list" and set to an optional location by clicking "Up" and "Down" at the right.
5. If "Register" is clicked after completing the settings, list screen of corresponding application is generated automatically. When the list is to be displayed, set it such that it is called from separate menu setting etc.

Displaying list item setting

The screenshot shows the 'Displaying list item setting' tab selected in the top navigation bar. The main area contains two sections: 'List of selected item' and 'Displaying item list'. The 'List of selected item' section shows fields for 'Additional description' and 'locale'. The 'Displaying item list' section lists fields: Equipment Name, Maker, Minimum Quantity, Purchase Unit, Color, Company, Size, Price, and Details. To the left of the list are four arrows (right, left, up, down) for reordering. Below these sections is a 'Preview displaying list' button, which is currently active, showing a table with columns: Equipment, Maker, Minimum Q, Purchase U, Color, Company, Size, Price, Details, Edit, Delete, and PDF. The 'Edit' column contains a pencil icon, and the 'Delete' column contains a trash bin icon.

Change the field displayed in the list

Step 1 : Display list field setting screen

1. Click "Displaying list item setting" tab of application basic information screen.
2. List field setting screen is displayed.

Step 2 : Change list fields**Add list fields**

1. Select (Display is reversed) the fields to be displayed in the list in "List of selected item" on the left and click "Select".
2. If the fields selected in "Displaying item list" are displayed, display image is displayed in "Preview displaying list" at the bottom of the screen.
3. Add the required fields in "Displaying item list" with reference to list preview.
4. List alignment sequence (Left -> Right) corresponds to (Up -> Down) of "Displaying item list". If the alignment sequence is to be changed, select the field in "Displaying item list" and set at an optional location by clicking "Up" and "Down" on the right.
5. When "Update" is clicked after completing the settings, list screen of corresponding application is generated automatically.

Delete list fields

1. Select (Display is reversed) the fields to be deleted (not displayed) from list in "Displaying item list" on the left and click "Delete".
2. If the fields selected in "List of selected item" are moved, display image is displayed in "Preview displaying list" at the bottom of the screen, however, confirm that selected fields are not displayed.
3. Cancel the fields to be deleted (not displayed) from "Displaying item list" with reference to the list preview.
4. When "Update" is clicked after completing the settings, list screen of corresponding application is updated automatically.

Delete fields displayed in the list

Delete the list when list screen settings are returned to the initial state (delete the screen itself).

When the remaining fields are added / deleted in list screen, execute the "Change the field displayed in the list" mentioned above.

Step 1 : Display list setting screen

1. Click "Displaying list item setting" tab of application basic information screen.
2. List field setting screen is displayed.

Step 2 : Delete list setting

1. If "Delete" on the top of screen is clicked, list display is canceled (deleted).

**Note**

When list is registered in the menu and menu is clicked without canceling the menu settings, transition takes place to the error screen.

Set authorization to use application

It describes about the display of list settings of application, display of registration screen/edit screen of data from list screen and the method to set (authorization settings) deletion of data for specific user or organization in list screen.

Contents

- [Function and description of each part of authorization settings screen](#)
- [Grant Authorizations of IM-FormaDesigner](#)
- [Update authorization setting of IM-FormaDesigner](#)
- [Revoke Authorization of IM-FormaDesigner](#)

Function and description of each part of authorization settings screen

The contents of authorization settings screen of application are as follows.

The screenshot shows the 'Privilege setting' screen of IM-FormaDesigner. At the top, there are tabs for Application information, Form setting, Table setting, Privilege setting (which is selected), Menu setting, and Displaying list item setting. Below the tabs, there are five sections labeled (1) through (5):

- (1) Role:** A table with columns for Edit, Role name, Display name, and Privilege. It shows one entry: 'forma_app_manager' with 'Forma application creation manager' as the display name and 'Addable,Updatable,Deletable' as the privilege.
- (2) User:** A table with columns for Edit, User code, User name, and Privilege. It shows one entry: 'ueda' with 'ueda tatsu' as the user name and 'Addable,Updatable,Deletable' as the privilege.
- (3) Organization:** A table with columns for Edit, Company code, Organization set code, Organization code, Organization name, and Privilege. There are no entries shown.
- (4) Public group:** A table with columns for Edit, Public group set code, Public group code, Public group name, and Privilege. There are no entries shown.
- (5) Registrant option:** A table with a single column for Privilege, showing 'No setting'.

1. Role

Authorization settings status can be checked for the role and Authorizations can be granted/revoke (deleted).

2. User

Authorization settings status can be checked for the user and authorization can be granted/revoke (deleted). (In case of granting authorization, it is necessary to previously set the reference authorization (permission) of the company to which the search target user of IM common master belongs.)

3. Organization

Authorization settings status can be checked for the organization and Authorization can be granted/revoke (deleted). (In case of granting Authorization, it is necessary to previously set the reference authorization (permission) of the company to which the search target organization of IM common master belongs.)

4. Public group

Authorization settings status can be checked for the public group and authorization can be granted/revoke (deleted).

5. Registrant option

Regardless of the type of authorization that are set, update / delete authorization is granted only for the data registered by the user.

Types of "Authorization settings of IM-FormaDesigner"

In authorization setting of IM-FormaDesigner, set as per the requirement by combining the executable operations summarized in the following table.

Screen	Screen of list display					Registration screen
	Icon	Add	Update	Delete	Detail	
Referencable	o	x	x	x	o	x
Updatable	o	x	o	x	o	x
Deletable	o	x	x	o	o	x
Updatable,Deletable	o	x	o	o	o	x
Addable	x	x(※)	x	x	x	o
Addable,Referencable	o	o	x	x	o	o
Addable,Updatable	o	o	o	x	o	o
Addable,Deletable	o	o	x	o	o	o
Addable,Updatable,Deletable	o	o	o	o	o	o



Note

o -> Corresponding icon is displayed (process can be executed).

x -> Corresponding icon is not displayed (error message is displayed while executing the process).

*Register icon is one of the items on the list display screen, it is considered to be x (hidden) since the list cannot be displayed.

Registrant option

In Authorization setting of IM-FormaDesigner, even though the Authorization wherein update / delete cannot be executed (register/reference possible, register/update possible, register/delete possible, etc.) is set, it is the setting for enabling update / delete for the data registered by the user. When this option is set, there may be a restriction that only the data of registrant can be updated / deleted.

**Warning**

Furthermore, even in case of registrant option setting, if the application is executed from list screen (only list screen is registered in menu and registration screen is not registered in menu), note that user for whom the type of Authorization is changed to "Registration possible", cannot refer / update / delete the data registered by the user himself in the past.
* indicates the authorization settings table mentioned above.

Grant Authorizations of IM-FormaDesigner**Step 1: Display the Authorization setting screen**

*The following procedure is explained from the screen after login to intra-mart Accel Platform.

- ▣ From the menu, move to "Create Forma Apps" -> "Application list".
- ▣ Click "Edit" icon of the application to be set from "Application list".
- ▣ Click "Privilege setting" tab of application information.

Step 2: Set Authorization

- ▣ Click "+" icon on the left of authorization target type (role / user / organization / public group) for which the application range is to be set.
- ▣ Click "Add" of the displayed column.
- ▣ Select the target (role / user / organization / public group) from 'Search'.
- ▣ Select the type of authorization to be set.
- ▣ Click "Add", and save the settings.

Update authorization setting of IM-FormaDesigner

Step 1: Display the authorization setting screen

*The following procedure is explained from the screen after login to "intra-mart Accel Platform".

- From the menu, move to "Create Forma Apps" -> "Application list".
- Click "Edit" icon of the application to be set from "Application list".
- Click "Privilege setting" tab of application information.

Step 2: Set Authorization

- Click "Edit" of the change target of the authorization target column for which Authorization setting of IM-FormaDesigner is already performed.
- Change "Authorization".
- Select type of Authorization to be set.
- Click "Update", and save the settings.

Revoke Authorization of IM-FormaDesigner

Step 1: Display the authorization settings screen

*The following procedure is explained from the screen after login to intra-mart Accel Platform.

- From the menu, move to "Create Forma Apps" -> "Application list".
- Click "Edit" icon of the application to be set from "Application list".
- Click "Authorization settings" tab of application information.

Step 2: Delete (cancel) authorization settings

- Click "Edit" of the change target of the Authorization target column for which Authorization setting of IM-FormaDesigner is already performed.
- Click "Delete", and save the settings.

Functions supported by multiple companies

Set application administration company information

The setting of the company that can manage created applications is described below.

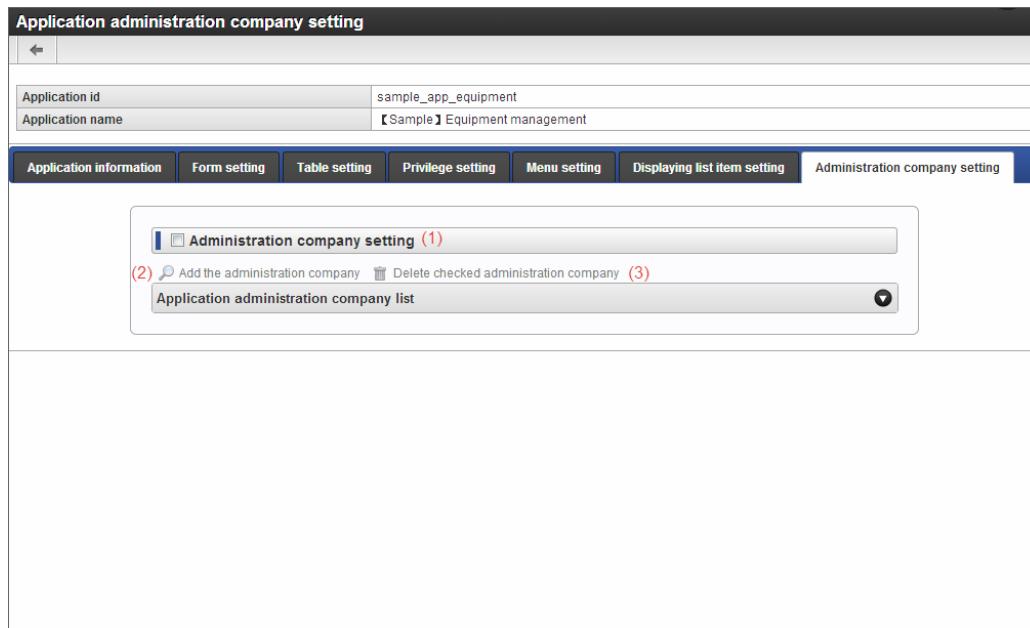
Contents

- **Application administration company setting**
- **Function and description of each part of application administration company setting screen**
- **Set the company to which the user, who is the application administrator, belongs**

Application administration company setting

administration company setting limits the affiliated company of the user who can manage (Refer [Create Web application in IM-FormaDesigner](#) for details) the applications created in IM-FormaDesigner .

If the application administration company is set, then only the user who belongs to the set company can manage the created applications.

Function and description of each part of application administration company setting screen

The contents of application administration company setting screen are as follows.

1. Administration company setting

The setting of application administration company can be switched between Enabled (Check : ON) and Disabled (Check : OFF). When application administration company setting are enabled, "Add the administration company", "Delete checked administration

company" link are enabled.

2. Add the administration company

Search and set the company to be set as application administration company.

3. Delete checked administration company

From the registered companies displayed in the application administration company list, delete the setting information of the application administration company for which the check is "ON".

Set the company to which the user, who is the application administrator, belongs

Step 1 : Display application administration company setting screen

- Click the "Administration company setting" tab of the application basic information screen.
- "Application administration company setting" screen is displayed.

Step 2 : Enter required items in company setting

- When the company to be managed is to be set, set the "Administration company setting" check to ON.
- If "Add the administration company" is clicked and the company to be managed is selected and added, administration is possible only by the users of the affiliated company.

 **Warning**
 Only the application creation manager of IM-FormaDesigner can change the setting contents of administration company setting.

Application administration company setting

Application id	sample_app_equipment
Application name	[Sample] Equipment management

[Application information](#) [Form setting](#) [Table setting](#) [Privilege setting](#) [Menu setting](#) [Displaying list item setting](#) **Administration company setting**

Administration company setting

[Add the administration company](#) [Delete checked administration company](#)

Application administration company list

<input checked="" type="checkbox"/>	Admin company name
<input type="checkbox"/>	SampleCompany

[C](#) [◀◀](#) | Page of 1 | [▶▶](#) [15](#) [View 1 - 1 of 1](#)

Administration company setting

- Set the company that can manage (edit form etc.) the application.
 - When check is "ON", it is necessary to set the company to which the user who can manage the application, belongs.
 - When check is "OFF", the user who can manage the application overcomes the limits by the company to which he belongs.
 - If the check is set from "ON" to "OFF", entire settings of administration company are deleted.

Add the administration company

When "Administration company setting" is set, the screen to search and add the company to which the user who can manage application belongs, is displayed.

Delete checked administration company

When "Administration company setting" is set, the setting of company to which the user who can manage the set application, belongs, is deleted.

Application administration company list

The companies to which the users who can manage application as an administrator of corresponding application are displayed in a list.

Set the query administration company information

The setting of the company that can manage the created query is described below.

Contents

- [Query administration company setting](#)
- [Set the company to which the user, who is the query administrator, belongs](#)

[Query administration company setting](#)

Administration company setting are the settings to limit the administration company of the query (Refer [Create / Update / Delete query](#) for the details) created in IM-FormaDesigner.

If query administration company setting are performed, it is possible to limit the query which can be used from the application based on the query administration company that is set.

[Set the company to which the user, who is the query administrator, belongs](#)

Step 1: Display the query administration company setting screen

- Click the "Administration company setting" tab of the query basic information screen.
- "Query administration company setting" screen is displayed.

Step 2: Enter the items required for company setting

- In case of setting the administration company, set the "Administration company setting" check to ON.
- If "Administration company setting" is clicked and administration company is selected and added, only the applications set in administration company can be used.



Warning

Only application creation management of IM-FormaDesigner can change the setting contents of query administration company setting.

Query administration company setting [Tenant database]

Edit query	Edit query details	Administration company setting				
<div style="border: 1px solid #ccc; padding: 10px;"> <p><input checked="" type="checkbox"/> Administration company setting</p> <p>Add the administration company Delete checked administration company</p> <p>Query administration company list</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15px;"><input checked="" type="checkbox"/></td> <td>Admin company name</td> </tr> <tr> <td><input type="checkbox"/></td> <td>SampleCompany</td> </tr> </table> <p style="text-align: center;">C Page 1 of 1 View 1 - 1 of 1</p> </div>			<input checked="" type="checkbox"/>	Admin company name	<input type="checkbox"/>	SampleCompany
<input checked="" type="checkbox"/>	Admin company name					
<input type="checkbox"/>	SampleCompany					

Administration company setting

- Set the company that can manage (edit SQL etc.) the query.
 - If the check is ON, it is necessary to set the administration company of the query that can be used from the application.
 - If the check is OFF, the query that can be used from the application overcomes the limits by the query administration company.
 - If the check is set from ON to OFF, all the settings of query administration company are deleted.

Add the administration company

In case "Administration company setting" is set, the screen to search and add the administration company of the query that can be used from the application is displayed.

Delete checked administration company

In case "Administration company setting" is set, the settings of administration company of the query that can be used from the application are deleted.

Query administration company setting

As an administrator of the corresponding query, administration company of the query that can be used from the application is displayed in a list.

Set the numbering rule definition administration company information

The setting of the company that can manage the created numbering rule definition is described below.

Contents

- Numbering Rule Definition Management Company Setting
- Set the company to which the user, who is the administrator of numbering rule definition, belongs

Numbering Rule Definition Management Company Setting

Administration company setting limits the administration company of the numbering rule definition (Refer [Use numbering function](#) for the details) created in IM-FormaDesigner.

If the Numbering Rule Definition Management Company Setting are performed, it is possible to limit the numbering rule definition which can be used from the application based on the numbering rule definition administration company that is set.



Warning

If the user having important membership information has created numbering rule definition for the company, it is registered as administration company setting of numbering rule definition.

Set the company to which the user, who is the administrator of numbering rule definition, belongs

Step 1: Display Numbering Rule Definition Management Company Setting screen

- Click the "Administration company setting" tab of the numbering rule definition update screen.
- "Numbering Rule Definition Management Company Setting" screen is displayed.

Step 2: Enter the items required for company setting

- In case of setting the administration company, set the "Administration company setting" check to ON.
- If "Add the administration company" is clicked and the administration company is selected and added, only the applications set in the administration company can be used.



Warning

Only application creation manager of IM-FormaDesigner can change the setting contents of Numbering Rule Definition Management Company Setting.

The screenshot shows the 'Numbering Rule Definition Management Company Setting' screen. At the top, there are tabs for 'Numbering Rule name' and 'Numbering sample'. Below these are two tabs: 'Numbering Rule Definition information' (which is selected) and 'Company setting'. A modal dialog box is overlaid on the screen. This dialog has a title bar 'Administration company setting' with a checked checkbox. It contains buttons for 'Add the administration company' and 'Delete checked administration company'. Below these buttons is a section titled 'Numbering Rule Definition Management Company List' with a table. The table has two columns: 'Company name' and 'SampleCompany'. At the bottom of the dialog are navigation buttons for pages and a status message 'View 1 - 1 of 1'.

Administration company setting

- Set the company that can manage (edit, initialize numbering rule definition etc.) numbering rule definition.
 - When check is ON, it is necessary to set the administration company of numbering rule definition that can be used from the application.
 - When check is OFF, numbering rule definition that can be used from the application overcomes the limits by the numbering rule definition administration company.
 - If the check is set from ON to OFF, all the settings of administration company are deleted.

Add the administration company

When "Administration company setting" is set, the screen to search and add the administration company of numbering rule definition that can be used from the application is displayed.

Delete checked administration company

In case "Administration company setting" is set, the settings of administration company of numbering rule definition that can be used from the application are deleted.

As an administrator of the corresponding numbering rule definition, administration company of numbering rule definition that can be used from the application is displayed in a list.

Other application-wise functions

Migration of data source definition and application of IM-FormaDesigner using import / export

Data source definition and application created in IM-FormaDesigner can be migrated between intra-mart Accel Platform servers of same versions using external file.

The migration method of data source definition and application of IM-FormaDesigner between intra-mart Accel Platform servers of same version is described below.

Refer "Migration guide (Japanese)" for the migration between different versions (version 7.2 -> IM-FormaDesigner for Accel Platform~).

Contents

- Prerequisites for import / export
- Contents in IM-FormaDesigner which can/cannot be migrated
- Function and description of each part of application information import screen
- Function and description of each part of application information export screen
- Function and description of each part of data source definition import screen
- Function and description of each part of data source definition export screen
- Output application as migration file (Export application)
- Import an application from migration file (Import application)
- Output data source definition as migration file (Export data source definition)
- Import data source definition from migration file (Import data source definition)
- Output numbering rule definition as migration file (Export numbering rule definition)
- Import numbering rule definition from migration file (Import numbering rule definition)
- Application migration after operation

Prerequisites for import / export

Regarding data source definition / application created in IM-FormaDesigner, migration is possible between same versions using import / export.

- When database of migration source or destination environment is Microsoft SQLServer , data type is different, hence migration process cannot be performed with other databases.
When either of the migration environment is SQL Server, both migration source and destination should be adjusted to Microsoft SQLServer.
- The data related to IM common master such as role, user, organization and public group set by authorization settings should be set previously in migration destination environment.

Contents in IM-FormaDesigner which can/cannot be migrated

The migration target described later are the contents at the time of using migration (import / export) in IM-FormaDesigner and when IM-Workflow linkage is set, it is required to execute migration (import / export) process in a separate IM-Workflow.

Application migration

Application migration should be executed in each application.

Contents which can be migrated (contents included in migration file)

- Form definition information and file (screen information and image file created in IM-FormaDesigner)
- Form transition information
- Application information and history
- Table setting information of application
- Displaying list item setting information of application
- Authorization setting information of application
- IM-Workflow linkage information
- Application administration company setting

Contents which cannot be migrated (contents that should be reconfigured after file migration)

- Menu setting information of application
- Data registered from registration screen using form and application
- Data registered from application / approval screen in the application linked with IM-Workflow
- Source file of user program set in the application

Data source definition migration

Data source definition migration cannot be executed by restricting to a particular data source definition.

Contents which can be migrated

- Data source definition information and file (SQL information created on data source definition screen)

Contents which cannot be migrated

Since the following items are included in the migration scope of the application, they are not included in data source definition migration.

- Setting information of data source definition set in form of IM-FormaDesigner application

Numbering rule definition migration cannot be executed by restricting to a particular rule definition.

Contents which can be migrated

- Setting information, current number of numbering rule definition

Contents which cannot be migrated

Since the following items are included in the migration scope of the application, they are not included in numbering rule definition migration.

- Setting information of numbering rule definition set in form of IM-FormaDesigner application



Note

If numbering rule definition is not migrated in the application using numbering, the setting of numbering is changed to "Numbering by system".

Function and description of each part of application information import screen

The contents of application information import screen are as follows.

1. File to import

Select the acquisition source of the definition file of the application to be imported.

- Local file

Select when local file of the machine executing it is to be imported.

- Storage

Select when files under 'storage' are to be imported.

2. Execute import

Execute import.

Function and description of each part of application information export screen

The contents of application information export screen are as follows.

Export	Application id	Latest version	Application name	Remarks
	sample_address_chg	1	[Sample] Notification of change address, Etc.	
	sample_app_equipment	2	[Sample] Equipment management	Control the equipment which can be used in purchase application.
	sample_bihin_mochidashi	1	[Sample] The application to take out a equipment	
	sample_enquete	1	[Sample] Enquete	
	sample_enquete1	1	[Sample] Questionnaire for the course attendants	This is the sample of the questionnaire for the course attendants.
	sample_keireki	1	[Sample] Resume	
	sample_mailmagazine	1	[Sample] E-mail newsletter subscription registration	This is an application to make the subscription of the e-mail newsletter.
	sample_purchase_application	1	[Sample] Application for equipment purchase(IMW)	This is the sample of application for equipment purchase which can be used in IM-Workflow.
	sample_ringi	1	[Sample] Request for decision	

1. Destination

Select output destination of definition file of the application to be exported.

- Download

Select when a file is to be downloaded on the machine executing it.

- Storage

Select when files are to be exported under 'storage'.

2. Search

Set search condition to narrow down the application list to be displayed on the screen.

- Admin company name

Narrow down the application to be displayed in application list of the screen by application management company.

- Application name

Narrow down with application name as the condition. (Search by partial match.)

The names of all the locales set in the application are considered for the target application name.

3. Application list

Select export target in each application and export the definition file.

- Export

Export the definition file of the selected application.

- Application ID

Display application ID.

- Latest version

Display the latest version number of application ID.

- Application name

Display application name of locale of the user.

- Remarks

Display the contents of 'Remarks' of locale of the user.

Function and description of each part of data source definition import screen

The contents of data source definition import screen are as follows.

Import datasource information

(1) File to import * Local file No file chosen
 Storage storage/

(2)

1. File to import

Select acquisition source of the definition file of the query (data source definition) to be imported.

- Local file

Select when local file of the machine executing it is to be imported.

- Storage

Select when files under 'storage' are to be imported.

2. Execute import

Execute import.

Function and description of each part of data source definition export screen

The contents of data source definition export screen are as follows.

Export datasource information

(1) Destination Download
 Storage storage/

(2)

1. Destination

Select output destination of the definition file of the query (data source definition) to be exported.

- Download
Select when a file is to be downloaded on the machine executing it.
- Storage
Select when files under 'storage' are to be exported.

2. Execute export

Execute export.

Output application as migration file (Export application)

Step 1 : Display migration file output (export) screen of application information

*The following procedure is described from the screen after login to intra-mart Accel Platform .

- Move to "Forma Management Page" -> "Application migration" -> "Application information export" from the menu.
- "Export application information" screen is displayed.

Step 2 : Output (export) migration file of application information

- Select output destination of migration file.
 - When the local disk of user executing it is to be considered, set "Output destination" to "Download".
 - When folder under storage of intra-mart Accel Platform server is to be considered, set "Output destination" to "Storage" and enter the folder name under 'storage'.



Note

If a folder does not exist under 'storage', it is created automatically.

- Click "Execute export" icon of the application considered to be migration target.
- Migration file is output to the output destination after the process is complete.

Import an application from migration file (Import application)

Step 1 : Display migration file input (import) screen of application information

*The following procedure is described from the screen after login to intra-mart Accel Platform .

- Move to "Forma Management Page" -> "Application migration" -> "Application information import" from the menu.
- "Import application information" screen is displayed.

Step 2 : Import migration file of application information

- Specify the storage location of migration file (import file).
 - Set to "Local" in case of uploading from local disk of user executing it.
 - In case of importing from the folder under 'storage' of intra-mart Accel Platform server, set to "Storage" and enter the folder name under 'storage'.
- Enter information of import file and click "Execute import".
- Check "Import process result" and confirm that there is no error. In case of an error (displayed in red color), check the contents and respond as per the requirement.
- Application information is reflected in the execution environment after the process is complete.

If the character code of the server in migration source and migration destination environment differs, the following operations are additionally executed after import.

- The character code of json file generated under 'Storage' folder should be converted into character code similar to the migration destination (import environment).



Note

Even though form and application definition information is overwritten, table setting of application is not overwritten, hence, an error occurs in the creation of table if a table with same name already exists. In such a case, it may be required to update the table setting according to the form contents.

Step 3 : Reset the setting contents that are not reflected in migration file (Post-processing)

Migrate menu setting information of application

Refer **Set menu** for the procedure.

Migrate the data (data of header table/Detail table) which is registered/updated in the application created in IM-FormaDesigner

Refer "TableMaintenance Administrator Guide" for more details on procedure.

- Use "Table Export" function of "TableMaintenance" in migration source environment and output the data of header table/Detail table.
- Use "Table Import" function of "TableMaintenance" in migration destination environment and import the data of header table/Detail table.

Data registered from application/approval screen in application linked with IM-FormaDesigner

- Refer "IM-Workflow Administrator Guide" for management information (Job information, processing status of flow etc.) in IM-Workflow.
- Refer the migration procedure of header table/Detail table mentioned above for the information entered in the form of application created in IM-

FormaDesigner on application / approval screen of IM-Workflow.

Source file of user program set in application

- Source file of user program is out of scope of import/export. In case migration is to be performed, convert the target program to module project and set it in the migration destination.

Output data source definition as migration file (Export data source definition)

Step 1 : Display migration file output (export) screen of data source definition

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Data source definition migration" -> "Data source definition export" from the menu.
- "Export datasource information" screen is displayed.

Step 2 : Output (export) migration file of data source definition

- Select the output destination of migration file.
 - When local disk of the user executing it is considered, set "Output destination" to "Download".
 - When folder under 'storage' folder of intra-mart Accel Platform server is considered, set "Output destination" to "Storage" and enter the folder name under 'storage'.



Note

If the folder under 'storage' does not exist, it is created automatically.

- Enter the output destination information and click "Execute export".
- Migration file is output to the output destination after the process is complete.

Import data source definition from migration file (Import data source definition)

Step 1 : Display migration file input (import) screen of data source definition

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Data source definition migration" -> "Data source definition import" from the menu.
- "Import datasource information" screen is displayed.

Step 2 : Import migration file of data source definition

- Specify the storage location of migration file (import file).
 - In case of uploading from the local disk of the user executing it, set to "Local".
 - In case of importing from folder under 'storage' folder of intra-mart Accel Platform server, set to "Storage" and enter the folder name under storage.
- Enter information of import file and click "Execute import".
- Check the "Import process result" and confirm that there is no error. In case of an error (displayed in red color), check the contents and respond as per the requirement.
- The application information is reflected in execution environment after the process is complete.

Step 3 : Delete unnecessary data source definition information

- From the imported data source definitions, it is required to delete the data source definition which is not used in application imported by application migration (import).
- If data source definition to be migrated is arranged in the preliminary work before migration, then this work is unnecessary.

Delete shared DB query
Delete tenant DB query

Output numbering rule definition as migration file (Export numbering rule definition)

Step 1 : Display migration file output (export) screen of Table Maintenance

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "TableMaintenance" -> "Table Export" from the menu.
- "Table Export" screen is displayed.

Step 2 : Output (export) migration file of numbering rule definition

- Select the output destination of migration file.
 - When local disk of the executing user is to be considered, set "Output destination" to "Download".



Note

If the folder does not exist under 'storage', it is created automatically.

- Select "IMFR_M_AUTO_NO" "IMFR_M_AUTO_NO_LOCALE" from "Select target table", set to "Selected table".
- Set information of migration file and click "Execute export".
- Migration file is output to the output destination after the process is complete.

Import numbering rule definition from migration file (Import numbering rule definition)**Step 1 : Display migration file input (import) screen of numbering rule definition**

- * The following procedure is described from the screen after login to intra-mart Accel Platform.
- ① Move to "TableMaintenance" -> "Table Import" from the menu.
- ② "Table Import" screen is displayed.

Step 2: Import the migration file of Numbering rules definition

- ① Upload the migration file (import file).
 - ② In case of uploading from local disk of executing user
 - ③ Click "Add files...".
 - ④ Select the migration file.
 - ⑤ Click "Start" and upload.
 - ③ In case of importing from folder under 'storage' folder of intra-mart Accel Platform server. * Enter the path and file name of the migration file uploaded in 'storage' in "Storage".
- ④ Enter the information of migration file (import file) and click "Execute import".
- ⑤ When the import process is complete, check the contents as the number of processed data items are displayed in "Import process result".

Step 3 : Initialize current number of numbering rule definition

- ⑥ During the migration of numbering rule definition, the current number is also migrated, but if it is to be initialized after migration, the following procedure should be executed.
 - ⑦ Move to "Forma Management Page" -> "Forma App Make Management" -> "Numbering Rule Definition" from the menu.
 - ⑧ Click  of the imported numbering rule definition.
 - ⑨ Set the "Uncheck for initialization." check current number to OFF and click "Update".
 - ⑩ Current number of numbering rule definition is initialized and numbering is done again from the starting number.

Application migration after operation

The procedure and corresponding method for migration of application after the start of operation is described below.

Procedure for migration of application after the start of operation

- ① In the migration source environment, export ("Export application information") the migration target application.
- ② In the migration destination environment, import ("Import application information") the migration target application and import the file which is exported by the previous procedure.
- ③ If the target application is already registered, a message showing "Failed to create table "OO" "is displayed on the import process result screen. Hence, perform the setting operation in the migration destination environment based on the following support list.

Individual support list of application

After the migration operation of application, support individually with reference to the following list depending on the changed contents before and after the migration of application.

Changed contents	Corresponding method
Addition of items to main form (①)	Click "Update" in "Table setting" and set the data size of the added row.
Deletion of item (①)	The column corresponding to deleted item is not deleted. If the column corresponding to the deleted item is also to be deleted, table should be created again or previous table should be deleted at the migration destination and import should be executed.
Change maximum number of input characters of an item (Change the data size of table : Increase the size)	Click "Change data size" of the corresponding column in table setting and set the data size.
Change maximum number of input characters of an item (Change the data size of table : Decrease the size)	An error occurs if the data already registered in the target column exceeds the data size after change. Table should be created again or previous table should be deleted at the migration destination and import should be executed.
Change Field ID of an item	If Field ID is changed, new column of table corresponding to Field ID after change is added. (If data is registered in a column before change, reflect the data to the column after change using the DB management tool etc.)
Change item having similar Field ID (Change data type)	When the data type of the column related to items having similar Field ID is changed (from string type to date type etc.), table should be created again or table should be deleted previously at the migration destination and import should be executed. (If the data registered already exists, reflect the data after creating / importing again using DB management tool)

Supplement

[1] (①, ②) Form of target screen item should be main form and "Field DB registration" is required.

Use user program in application

The method to set the user program in an created application is described below.

Contents

- User program
- Pre-requisites for using user program
- Operations which can be performed by user program of Validation check
- Operations which can be performed by user program of Pre-processing
- Operations which can be performed by user program of Post-processing
- Function and description of each part of user program list screen
- Function and description of each part of Add user program screen
- Location of user program and the method to describe program path at the time of setting
- Register user program in application
- Change (Update) the settings of the program registered in application
- Delete settings of the program registered in application

User program

When user program is used, input check of complex patterns and independent processes before the display of registration / update / reference screen of application or after registration / update / deletion can be incorporated in the application created in IM-FormaDesigner.

Program can be used by registering in intra-mart Accel Platform as per the requirement such as when input check other than input check of standard screen items is to be executed.



Note

The program to add input check should be executed in "Script development model".
The Pre-processing program and Post-processing program is executed in either "JavaEE development model" or "Script development model".

Refer "IM-FormaDesigner for Accel Platform Programming Guide" for the method to create user program.

Regarding execution timing of user program

- Validation check program : When "Add" (Apply) button in application is clicked
- Pre-processing program - Add : When menu to display registration screen of application is clicked or "Add" button on list screen is clicked
- Pre-processing program - Edit : When "Edit" button on list screen of application is clicked
- Pre-processing program - Reference : When "Reference" on list screen of application is clicked
- Post-processing program - Add : When data entered in registration screen of application is registered normally in header table / Detail table
- Post-processing program - Update : When data entered in update screen of application is updated normally in header table / Detail table
- Post-processing program - Delete : When data for which delete icon on list screen of application is clicked is deleted normally

Pre-requisites for using user program

It is assumed that the following settings are performed for using the user program.

- Validation check or user program to be registered as Pre-processing, Post-processing should be created and can be used on intra-mart Accel Platform
- The information required to incorporate the program to be used in IM-FormaDesigner application should be acquired



Note

In order to use the user program, convert the target program and deploy it in module project.

Operations which can be performed by user program of Validation check

The following operations can be implemented in combination with IM-FormaDesigner application in the user program created as extension of input check.

- Check whether an appropriate value is entered according to the value entered / selected in specific screen item on the form. (Example: Whether the age of person who is set as a protector is appropriate)
- Check whether the value entered in screen item is in a specific format (Example : Format check of telephone number, mail address, etc.)
- Process in which error occurs when a value other than a specific value is selected in the Select from list item. (Example : It is considered as an error if a person sets self as in-charge for input field of list selection)

Operations which can be performed by user program of Pre-processing

- In an application not linked with IM-Workflow, acquire the data from specific database before displaying registration screen and display initially on the form.
- In an application not linked with IM-Workflow, when registered data from list screen is displayed on reference screen, display by acquiring the current date and time from screen item.
- In an application linked with IM-Workflow, edit the value of specific item registered at the time of application and display as initial value of item of the approval screen.

Operations which can be performed by user program of Post-processing

- In an application not linked with IM-Workflow, execution of linkage process to a table for separate system other than **Header table** after register / delete / update from application.
- In an application not linked with IM-Workflow, after the registration from the application, convert the entered data into specific format and output to file.



Note

When Post-processing program is incorporated in application of IM-FormaDesigner linked with IM-Workflow and when it is to be executed according to the timing of IM-Workflow process, use user program incorporated function of IM-Workflow .

Function and description of each part of user program list screen

The contents of user program list screen are as follows.

The screenshot shows the 'User program list' interface. At the top, there are tabs for 'Application history information', 'Form list', 'Form transition list', and 'User program list'. The 'User program list' tab is selected. Below the tabs, there is a list of program types with numbered labels (1) through (9) next to them:

- (1) Validation check program + Add
- (2) Preprocessing program -
- (3) Preprocessing program - Add + Add
- (4) Preprocessing program - Edit + Add
- (5) Preprocessing program - Reference + Add
- (6) Post-processing program -
- (7) Post-processing program - Add + Add
- (8) Post-processing program - Update + Add
- (9) Post-processing program - Delete + Add

Each item has an 'Edit' button and fields for 'Program name' and 'Program remarks'.

Validation check program

1. Validation check program

Set user program to be used as input check of IM-FormaDesigner application.

- Add

Display registration screen of user program for input check.

- Edit

Click to change the settings of the registered user program.

- Program name

Display the registered user program name.

- Program remarks

Display the contents of 'Remarks' of the registered user program.

Pre-processing program

2. Change Pre-processing program display

Change Display / hide of registered contents of Pre-processing program.

3. Pre-processing program - Add

Set the user program to be executed before displaying the registration screen of IM-FormaDesigner application.

- Add

Display the registration screen of the user program to be executed before displaying registration screen.

- Edit

Click to change the settings of the registered user program.

- Program name

Display the registered user program name.

- Program remarks

Display the contents of 'Remarks' of the registered user program.

4. Pre-processing program - Edit

Set the user program to be executed before displaying edit screen of IM-FormaDesigner application.

- Add
Display the registration screen of the user program to be executed before displaying edit screen.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

5. Pre-processing program - Reference

Set the user program to be executed before displaying reference screen of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed before displaying reference screen.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

Post-processing program

6. Switch the display of Post-processing program

Switch display/hide of registration contents of Post-processing program.

7. Post-processing program - Add

Set the user program to be executed after registration process of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed after registration process.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

8. Post-processing program - Update

Set the user program to be executed after update process of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed after update process.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

9. Post-processing program - Delete

Set the user program to be executed after deletion process of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed after deletion process.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

Function and description of each part of Add user program screen

The contents of Add user program screen are as follows.

The screenshot shows the 'Add user program' screen. At the top, there is a header bar with a back arrow and the title 'Add user program'. Below the header, there is a table with the following data:

Application id	sample_app_equipment
Application name	Sample Equipment management
Application history number	1
User program type	Post-processing
Execution process type	Add

Below this table is a large form area divided into sections:

- (1) User program information:** Contains fields for 'Program type' (dropdown menu) and 'Program path' (text input).
- (2) Program (Locale unit):** Contains three language sections: English, Japanese, and Chinese. Each section has fields for 'Program name' (text input) and 'Program remarks' (text area).
- (3) Copy:** A group of checkboxes with the following options:
 - Copy to the post-processing program for update.
 - Copy to the post-processing program for delete.

At the bottom right of the form is a large 'Add' button.

1. User program information

① Program type

In case of Validation check, "Script development model" can be used, and in case of Pre-processing/ Post-processing, "Script development model" and "JavaEE development model" can be used.

② Program path

Enter a specific path according to "Location of user program and the method to describe program path at the time of setting" described later.

2. Program (Locale unit)

Enter the information required for each locale set in the application.

③ Program name

Describe the name of the program for each locale set in the application.

④ Program remarks

Describe the description etc. of the program for each locale set in the application.

3. Copy

It is the item which can be set at the time of register / update of Pre-processing program (register / edit / refer) and Post-processing program (register / update / delete).

The setting contents are copied if the check is set to ON when the contents registered in specific Pre-processing program and Post-processing program are to be used as program at the time of other process.

Location of user program and the method to describe program path at the time of setting

Though "Script development model" and "JavaEE development model" can be used in user program, the location of program, and the description method at the time of setting differ according to development model.

The location for each development model and the description method at the time of setting to application is described below.

⑤ In case of Script development model

- ⑥ Location of program : Place the program file under "Storage directory of Script development model program".
- ⑦ The description method : Describe the path as route of above mentioned directory.

"Example"

Item	File path
Storage directory of script development model program	<%RESIN_HOME%>/webapps/<directory of the same name as WAR file>/WEB-INF/jsp/src

Item	File path
Location of program	src/myprogram/program01.js
Program path described at the time of setting	myprogram/program01
In case of JavaEE development model	
● Location of program : Place the program file (jar file or class file) with the class path.	
● Description method : Describe "Package name.Class name".	
"Example"	
Item	File path
Package name	jp.co.mypackage
Class name	ProgramClass
Program path described at the time of setting	jp.co.mypackage.ProgramClass

Register user program in application

Step 1 : Display user program management screen

- Click "Form setting" tab of application basic information screen.
- Since application history list is displayed, click "Edit" icon of the target history row.
- Click "User program list" tab of "Application history information".
- User program list is displayed.

Step 2 : Register user program

Set user program which executes input check

- Click "Add" next to "Validation check program".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Set the user program to be executed before displaying registration screen

- Click "Add" next to "Pre-processing program - Add".
- Enter the required items.
- Settings are complete when "Add" is clicked after the required items are entered.

Set the user program to be executed before displaying Update screen

- Click "Add" next to "Pre-processing program - Edit".
- Enter the required items.
- Settings are complete when "Add" is clicked after the required items are entered.

Set the user program to be executed before displaying Refer screen

- Click "Add" next to "Pre-processing program - Reference".
- Enter the required items.
- Settings are complete when "Add" is clicked after the required items are entered.

Set user program to be executed after registration process

- Click "Add" next to the "Post-processing program - Add".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Set user program to be executed after update process

- Click "Add" next to "Post-processing program - Update".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Set user program to be executed after deletion process

- Click "Add" next to "Post-processing program - Delete".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Change (Update) the settings of the program registered in application

Step 1 : Display user program management screen

- Click "Form setting" tab of application basic information screen.
- Since application history list is displayed, click "Edit" icon of the target history row.
- Click "User program list" tab of "Application history information".
- User program list is displayed.

Step 2 : Change settings of registered user program

- Click "Edit" at the left of target program name from the registered program.
- Edit the items to be changed.
- Changed contents of the settings are reflected when "Update" is clicked after editing the target items.

Delete settings of the program registered in application**Step 1 : Display user program management screen**

- Click "Form setting" tab of application basic information screen.
- Since application history list is displayed, click "Edit" icon of target history row.
- Click "User program list" tab of "Application history information".
- User program list is displayed.

Step 2 : Delete settings of registered user program

- Click "Edit" at the left of target program name from the registered program.
- Click "Delete" of "User program information".
- The setting information of user program is deleted from the application when "OK" on the confirmation dialog is clicked.

**Note**

Note that this deletion process is only for deleting the application created in IM-FormaDesigner and the setting information of user program. User program is not deleted.

Use numbering function

Registration of numbering rule definition and usage of screen item "Numbering" on the form is described below.

Contents

- **Numbering rule definition**
- **Function and description of each part of numbering rule definition screen**
- **Function and description of each part of property of screen item "Numbering"**
- **Registration of numbering rule definition, usage in application**
- **Initialize current number of numbering rule definition**

Numbering rule definition

This is a function to enter a unique number in the application created in IM-FormaDesigner.

After setting the numbering method previously as numbering rule definition, use it as "Numbering" item on the application form.

Function and description of each part of numbering rule definition screen

The contents of numbering rule definition screen are as follows.

Add numbering rule definition

Add numbering rule definition

(1) Numbering case	<input type="text"/>
(2) Prefix	<input type="text"/>
(3) Starting number *	<input type="text"/>
(4) Display length *	<input type="text"/>
(5) Incremental value *	<input type="text"/>
(6) Suffix	<input type="text"/>
English	
(7) Numbering Rule name *	<input type="text"/>
Japanese	
Numbering Rule name *	<input type="text"/>
Chinese	
Numbering Rule name *	<input type="text"/>
Add	

1. Numbering case

Displays the preview based on contents registered as numbering rule definition.

2. Prefix

The characters to be added before the numbered (indexed) number can be set up to 32.

3. Starting number

Sets the starting number of numbering based on the setting contents of numbering rule definition.

In the update screen of numbering rule definition, displays the "Current number" set at the time of subsequent numbering.

4. Display length

In the numbering rule definition that is set, set the number of digits in the numerical value varying as "Number" within 16 digits.

If Prefix or current number is less than number of digits displayed, add "0".

5. Incremental value

Set the value to be added to Prefix / current number at the time of numbering once.

6. Suffix

The characters to be added after the numbered (indexed) number can be set up to 32.

7. Numbering Rule name

Set a name which can be uniquely identified as numbering rule definition name in each locale.

Function and description of each part of property of screen item "Numbering"

The contents of property of screen item "Numbering" are as follows.

Properties

Basic configuration

Label	<input type="text"/> Numbering number
(1) Numbering Rule Definition name *	<input type="text"/> Automatic numbering by system
(2) Unique No. setting method *	<input type="text"/> For every registration process

1. Numbering Rule definition name

- Set the numbering rule definition to be used from the registered numbering rule definitions.
- If the numbering rule definition is not set, set auto numbering (auto numbered value in system) by the system.
- If numbering rule definition is set by "Automatic numbering by system", use JS API Identifier.get(), and return a unique value on the system.

2. Unique No. setting method

- Set the timing for numbering.
- For every screen access

Perform numbering when the screen is displayed.

However, there is no new numbering if it is displayed again in temporary saved status.

- For every registration process

Perform numbering when registration (application) process is executed on the screen.

Nothing is displayed before registration (application) to determine the number when the process has ended normally.

Registration of numbering rule definition, usage in application

Step 1 : Display numbering rule definition registration screen

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Forma App Make Management" -> "Numbering Rule Definition" from the menu.
- Click "Add" icon on the top left of "Numbering rule definition list".

Step 2 : Create new numbering rule definition

- After entering the required information, click "Add" to register the numbering rule definition.

Step 3 : Set "Numbering" on application form

- Display form designer screen of form on which screen item "Numbering" is to be set from the application list.
- Set "Numbering" on the form on the form designer screen.
- Open 'Properties' of screen item and set the numbering rule definition created previously in numbering rule definition.
- Complete the procedure by saving the form.

Initialize current number of numbering rule definition

Initialize the current number of the set numbering rule definition by the following procedure.

Step 1 : Display numbering rule definition update screen

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Forma App Make Management" -> "Numbering Rule Definition" from the menu.
- Click "Edit" icon of numbering rule definition for the current number to be initialized from "Numbering rule definition list".

Step 2 : Initialize index number

- Turn OFF the check to the right of current number and enter the starting number after initialization.
- Confirm that there are no other items that need to be changed and click "Update".
- The procedure is complete if update could be done normally.

Output form in PDF

The method to output form of IM-FormaDesigner as a PDF file is described below.

Contents

- **PDF output function**
- **Contents that can be output as PDF file**
- **Setting method to output PDF file from list display screen**
- **Setting method to output PDF file by screen item "Button (Event)"**
- **Method to check output image of PDF file**

PDF output function

It is possible to download as PDF file from the IM-FormaDesigner application.

PDF output can be executed by screen item "Button (event)" set on list display screen and reference screen of the application.

- When PDF file is output from the list display screen, it is necessary to grant reference privilege to the executing user for the target application.

Contents that can be output as PDF file

The following contents can be output as PDF file from IM-FormaDesigner application.

- Reference screen set in form transition "Reference transition".
- In case of setting such that transition between multiple forms can be done on the form screen, only the form displayed first can be output as PDF.
- When the subsequent transited form is to be output as PDF, set "Button (event)" of screen item on that form and set so as to output PDF in a script.

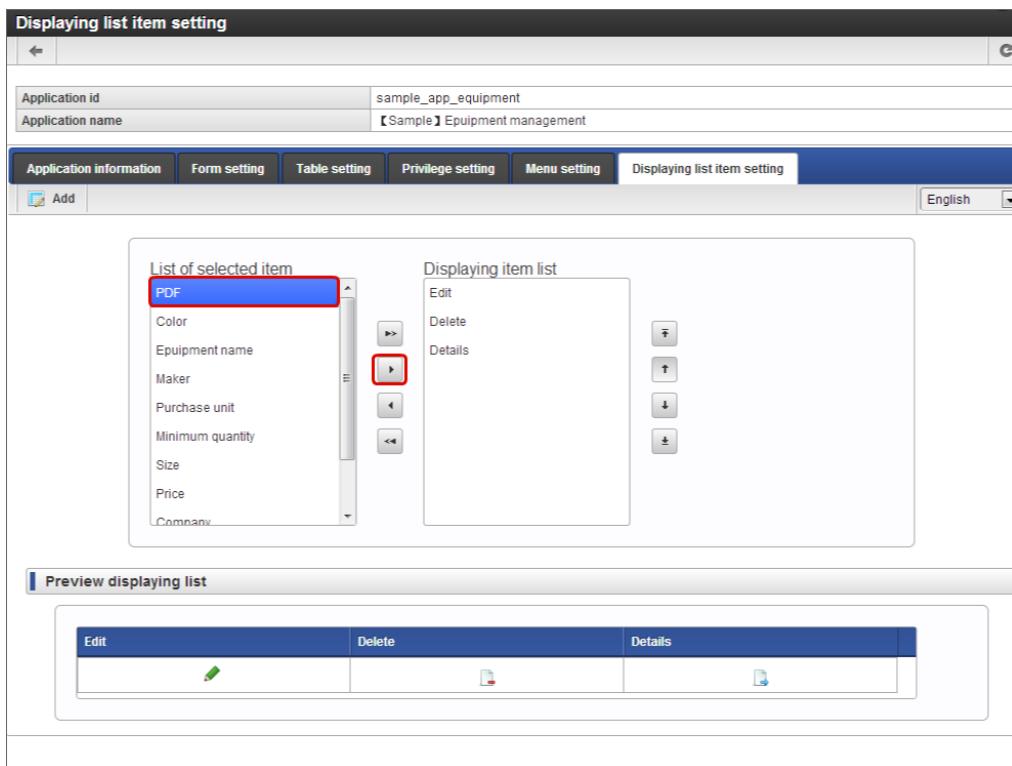
Note that the following are not output to PDF file.

- Screen item for which "Display" - "Refer" is set to "Non display" in "Display style" property of screen item.
- Screen items where display image is in "Button" format ("Button (Register)" "Button (Next)" "Button (Back)" "Button (Back to list)" "Button (Temporary save)" "Button (Event)") are relevant in the standard screen items.
- When image file of gif format is to be referred in screen item "Image" (if it is set, then only the frame of that range is output.)

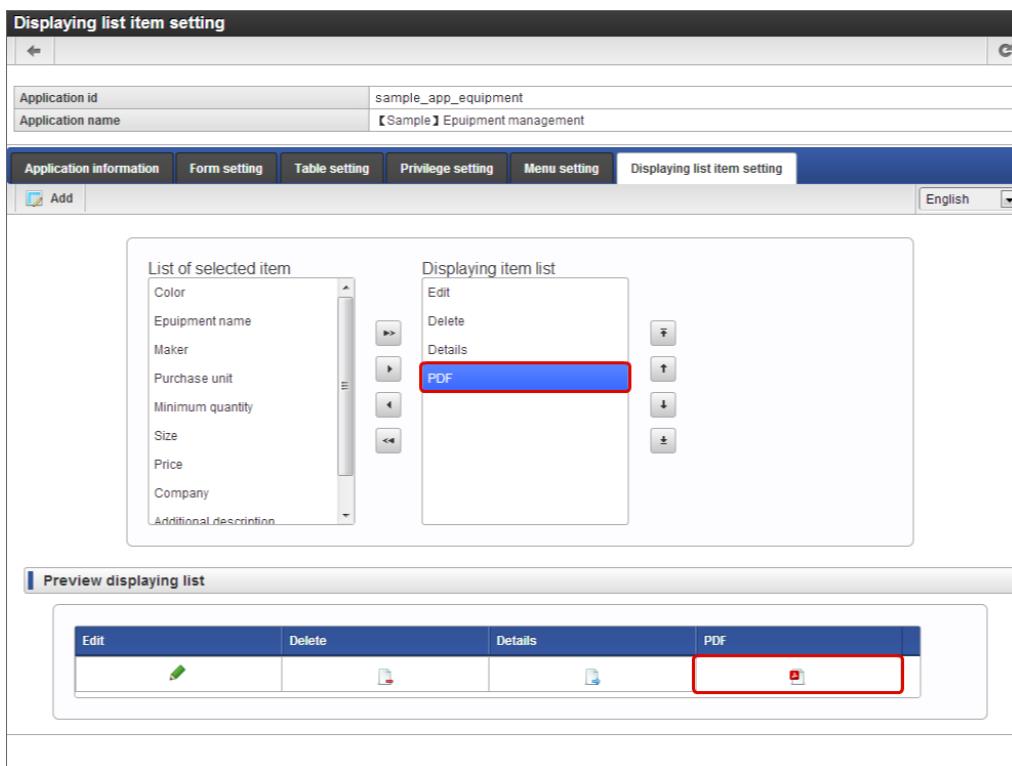
Setting method to output PDF file from list display screen

Setting method

- Add "PDF" in the display item list by "Displaying list item setting" of application.



- If it is set correctly, column of "PDF" icon is displayed as follows.

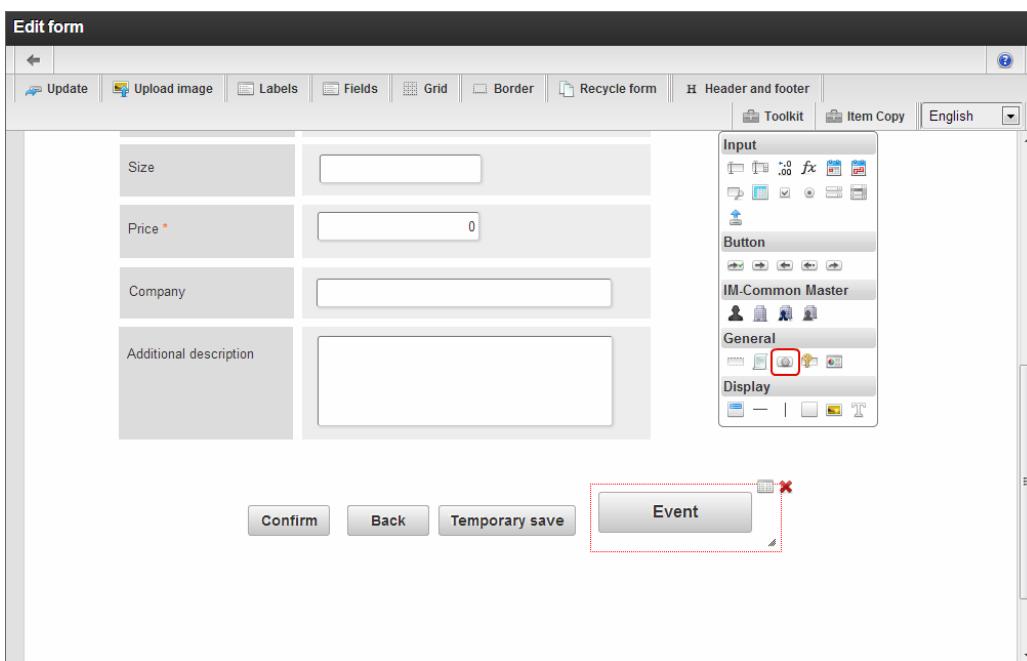


- When PDF icon of list display screen is clicked, PDF file is generated and downloading starts.

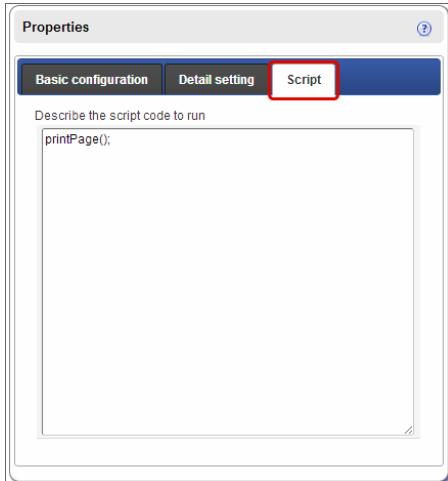
Setting method to output PDF file by screen item "Button (Event)"

Setting method

- When displayed as reference screen, set the screen item "Button (Event)" on form in which PDF file is to be output.



- Describe "printPage();" in "Script" property of screen item and save the form.



- Display the screen where button (event) is set as reference screen. When the button is clicked, PDF file is generated and downloading starts.



Note

In case of PDF output using screen item "Button (event)", set that button only on the reference screen.
 PDF output process is not executed normally if the button is set on other than reference screen.
 If printing process is executed from the registration screen, registration data ID is not defined and hence an error occurs in the PDF output process.
 If printing process is executed from edit screen, update is not executed even if it is executed after the PDF output process.

Method to check output image of PDF file

- Even though the PDF output function uses "wkhtmltopdf" to generate PDF file, rendering engine used at the time of file generation uses Webkit engine used in Chrome and Safari.
 Hence, the image at the time of PDF output is identical to the image when Chrome and Safari are used.
 When PDF output image is to be checked while creating the form, check it using Google Chrome or Safari.

Create an application which can be used from IM-Workflow in IM-FormaDesigner

Create an application in IM-FormaDesigner

The outline of the procedure to create a Web application in IM-FormaDesigner and to perform the settings of IM-Workflow is described below. Perform the operations according to the procedure of the corresponding page after checking the necessary procedures on this page.

Basic procedure to create an application in IM-FormaDesigner

It is the basic procedure to create an application in IM-FormaDesigner .

Step 1 : Register basic information of application

- Set the language to be used (**Locale**) and the purpose of usage (Web application, IM-Workflow contents etc., for the application to be created).

Step 2 : Create form

- Create a screen component called as "Form" created in IM-FormaDesigner and set it to the screen to be used in the application.

Step 3 : Create table

- Create a table to store the data registered from the created application in the database.
 - Since the table can be created automatically by the click operation, database knowledge related to SQL etc., is not required.

Step 4 : Set WF linkage information

- Perform the WF linkage setting, Append setting combined with the flow of IM-Workflow and job property setting etc.

Set basic information of IM-FormaDesigner application

The method to register the basic information of application created in IM-FormaDesigner is described below.

Contents

- Basic information of IM-FormaDesigner application**
- Function and description of each part of application registration screen**
- Create new application of IM-FormaDesigner**
- Update IM-FormaDesigner application**
- Delete IM-FormaDesigner application**

Basic information of IM-FormaDesigner application

Retain the application name, history management (version) information for fixed period and target display language settings as the basic information of application in IM-FormaDesigner.

Control of available period or switching of display language is performed for the Web application of IM-FormaDesigner based on the contents set in basic information.

Function and description of each part of application registration screen

The contents of registration screen of application are as follows.

1. Application ID

Enter the name for identification within the IM-FormaDesigner system using single byte alphanumeric characters and underscore ("_").

2. Application type

Select whether the application created in IM-FormaDesigner is to be used as Web application or to be used by linking with IM-Workflow.

- Standard : Use IM-FormaDesigner application as an independent Web application.
- IM-Workflow : IM-FormaDesigner application by linking with IM-Workflow.

3. Valid start date

Set history start date of the first version to be stored in the application created in IM-FormaDesigner.
The created application can be used from this set date onwards.

4. Valid end date

Set history end date of the first version to be stored in the application created in IM-FormaDesigner.
The created application can be used till this set date.

*If input is omitted, system end date (default is 2999/12/31) of intra-mart Accel Platform is set.

5. Target locale(s)

Select **Locale** to be used in application created in IM-FormaDesigner.

When the application is to be used, the user should log into intra-mart Accel Platform in the set locale.

6. Application name

Enter the name of the application to be created in IM-FormaDesigner.

The entered name can be used as display in menu or as initial value of job name at the time of linking with IM-Workflow.

7. Remarks

Enter the description of application.

Display the entered descriptive text in 'Remarks' of the application list.

Create new application of IM-FormaDesigner

Step 1 : Display application registration screen

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- ▣ Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- ▣ Click "Add" button at the top of "Application list".

Step 2 : Enter application information

Since registration screen of application information is displayed, enter the required information and register the version of application.

The information registered here can be changed with some exceptions.

Update IM-FormaDesigner application

Application history management

Multiple "Application history" can be registered in one application of IM-FormaDesigner.

When "Application history" is used, switching to a screen to be used for fixed period is possible, hence after the end of the set period, it is possible to automatically switch and use the subsequent screen (form) for set period.



Note

If the valid time in multiple "Application history" overlaps, larger number of application history number becomes valid.

Step 1 : Display application history registration screen

To switch an application form created in IM-FormaDesigner in fixed period, the information (application history) of the period to apply for a new form should be added first.

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- ▣ Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- ▣ Click "Edit" of the application in which application history is to be added in the "Application list".
- ▣ Click "Form list" tab from "Application information".
- ▣ When "Add" in "Application history list" is clicked, transition takes place to additional screen of application history information.

Step 2 : Register application history information

- ▣ Enter application start date for new application (form) in "Valid date (Start)". (If Valid date (End) is not entered, 2999/12/31 is set as the default.)
- ▣ New application history information is registered when "Add" is clicked.

Step 3 : Edit form layout

- ▣ Click "Form list" tab in "Application history information".
- ▣ Since form information registered in application history information previously is displayed, click "Edit form" of the form which is to be edited.
- ▣ Edit the layout of form according to the procedure of "Create application form".
- ▣ Form editing is complete when information such as transition information is changed.

Delete IM-FormaDesigner application

Describes about the deletion of application created in IM-FormaDesigner when it is not linked with IM-Workflow.

Refer **Remove (Delete) IM-Workflow linkage information** for the deletion procedure when linked with IM-Workflow .

Step 1 : Display application information screen

- ▣ The following procedure is described from the screen after login to intra-mart Accel Platform.
- ▣ Move to "Forma Management Page" -> "Create Forma Apps" -> "Application list" from the menu.
- ▣ Click "Edit" of the application in which application history is to be added in "Application list".

Step 2 : Delete application

- ▣ Click "Delete" in "Application information".
- ▣ Message showing "Are you sure you want to delete application information?" is displayed.

- In case header table / Detail table of the application is to be deleted, if "Delete the table which stores application data." check is set to ON and "OK" is clicked, then the application is deleted.
- In case registered data is to be used from the application even after deleting the application, if "Delete the table which stores application data." check is set to OFF and "OK" is clicked, then only the application is deleted.
- If application management company is set when the application is deleted, the information of application management company setting is also deleted simultaneously.

Create application form

The method to create a screen component called as form which configures an application is described below.

Contents

- Application form
- Function and description of each part of form list screen
- Function and description of each part of form registration screen
- Function and name of each part of form designer screen
- Create / edit application form
- Delete application form
- Use multiple forms in application

Application form

The component which is the "Screen" of application created in IM-FormaDesigner is called as "Form".

In 'Application', application with multiple screen transitions can be created by creating a form other than the main form created initially.

Main form

Main form is the initial setting of screen (form) used by each process (register / refer / update) in the application created in IM-FormaDesigner. The fields in main form are the table fields to manage the data entered in application form or application created in IM-FormaDesigner.

Function and description of each part of form list screen

The contents of form list screen are as follows.

Form list					
Application history information		Form list		Form transition list	
				User program list	
	Add (1)				
(2)	(3)	(4)	(5)	(6)	
Edit	Edit form	Preview	Form name	Form remarks	
			Main Form	The screen to input the information of the equipment to register or update.	
			Form2	The screen to confirm the inputs.	
			Form3	The screen to refer the inputs.	

1. Add

Display the form registration screen.

2. Edit

Display the edit screen of registered form.

3. Edit form

Transit to edit screen layout (form designer screen) of registered form.

4. Preview

Display preview screen of registered form.

5. Form name

Display the registered form name.

6. Form remarks

Display the remarks of registered form.

Function and description of each part of form registration screen

The contents of form registration screen are as follows.

Add form

English

(1) Form name *

(2) Form remarks

Japanese

Form name *

Form remarks

Chinese

Form name *

Form remarks

Add

Function and name of each part of form designer screen

The contents of form designer screen are as follows.

Edit form

(1) Update (2) Upload image (3) Labels (4) Fields (5) Grid (6) Border (7) Recycle form (8) Header and footer (9) Toolkit (10) Item Copy (11) English

(12)

(13) Text (14) (15)

Toolkit

Properties

Basic configuration Detail setting Display style

Set required items to use the item.

Label Text

Input validation

Item Copy

- All forms
- All item groups
- All items
- String
- Multiline string
- Number
- fx Function
- Date
- Square/Rectangle
- Detail table
- Select user
- Select affiliation
- Headline
- Register Button
- Temporary save Button

1. Update

Save the setting contents of form designer screen in form data.

2. Upload image

Display the screen to upload the image file which can be set in image selection of screen item "Image".

3. Labels

Display label item list of the items set in the form.

The items set as label of items are displayed in a list.

4. Fields

Display the input field list of the items set in the form.

Only the items having input fields are displayed in the list. Items such as display items, which do not have input fields are not displayed.

5. Grid

Display grid in form preview area.

6. Border

Always display the border of the set items.

The border color is red for the selected items and the other items are displayed in black color.

7. Recycle form

Load the registered form.

Form settings can be loaded from other application or history of same application.

Since form setting contents are "Read", when form information is saved after loading, it is overwritten in the form under edit of the application which is currently being edited.

The contents of the registered form selected in reuse list are not changed.

When search conditions such as application ID etc. are entered and 'Search' button is clicked, list of forms matching the criteria is displayed.

When radio button of the form to be used from the list is checked and "OK" button is clicked, it is reflected to the form designer screen to load the form.

When 'Preview' icon is clicked, preview screen of corresponding form is displayed in a popup.

Note that when the form is loaded, unsaved edit contents of the form under display are deleted.

8. Header and footer

Display the screen to set header and footer in the form.

9. Toolkit

Display the toolkit which saves the items which are classified according to the categories.

Each item is arranged in the form by drag & drop.

Toolkit is hidden by double clicking on it or by clicking the toolkit icon.

Open and close by clicking the classification of items.

Moreover, item name is displayed by placing the cursor on each item.

10. Item Copy

Display the list of form fields used in application to allow the items share a value between different forms within the same application.

The items for which "Add to DB" is enabled (check is ON) in the input / select items having Field ID are considered to be displayed in the list.

11. Locale

When multiple locales are set in an application, preview of the locale selected by select box is displayed.

12. Form preview area

It is the preview of the form being created.

Position and appearance etc. of the set items is displayed in the same way as when the form is used in practice.

13. Arranged items

These are the items set in the form.

14. Properties (icon)

Display the property setting screen of set items.

Property screen can be also displayed by double clicking the set item.

15. Delete (icon)

Delete the set item.

Create / edit application form

The method to create form in form designer screen is described below, however, also refer "IM-FormaDesigner for Accel PlatformDesigner Help" for the detailed description of function of each screen.

Step 1 : Display form designer

<<When "Register" in application information is clicked>>

- Form designer is displayed after "Add" button is clicked.

<<When form is to be created in registered application from menu>>

1. In "Application list", click "Edit" icon of application that creates the form.
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" of "Application history information".
 - When the form to be edited is displayed in the list, click the "Edit form" icon.
 - When the form to be edited is not displayed in the list, click "Add".
 - Create form by entering form name in "Form name" and description in "Remarks".
5. Display form designer screen.

Step 2 : Set item in form preview area

1. Click "Toolkit" from the form designer screen toolbar and display the popup of screen items which can be set in the form.
2. Arrange the items to the form preview area by drag & drop.
3. The required items are set.
 - Make sure to set screen item "Button (Register)" for registration of data as web application or execution of application (approval) process from the form by linking with IM-Workflow .

<<When multiple items are to be selected and set>>

- Multiple items can be selected and set collectively for some setting items in form designer.
The contents which can be set are as follows.
 - Move the position of multiple selected items by dragging
 - Align (left alignment, right alignment, top alignment) multiple items
 - Copy and paste multiple items collectively
 - Delete multiple items collectively

- When OS of personal computer of application maker is Windows
 - Multiple target items can be selected by pressing the "ctrl" key (border is blue dotted line).
 - When the state in which multiple items are selected is to be released, click any location on form designer.
- When OS of personal computer of application maker is Macintosh
 - When "Multiple selection" is clicked in the context menu displayed by right clicking on canvas of form designer, it changes to multiple selection mode.
 - At the time of multiple selection mode, multiple items can be selected when the items to be set collectively are clicked. (border is blue dotted line)
 - When the state in which multiple items are selected is to be released, similar to the multiple selection mode setting, right click and display the context menu and click "Release multiple selection".

<<In case of arranging the items by aligning>>

- Select multiple target items.
- When multiple items are selected, right click and display the context menu.
- Click "Left alignment", "Right alignment" or "Top alignment" of the context menu as per the standards of aligning.
- Items are arranged in the selected order.



Note

Arrangement of items can be aligned as per following by the selected menu.

- Left alignment
From the selected items, the horizontal position (Value of position "X" of property item) of the item is aligned to the extreme left (small) item.
- Right alignment
From the selected items, the horizontal position (Value of position "X" of property item + item size width) of the item is aligned to the extreme right (large) item.
- Top alignment
From the selected items, the vertical position (Value of position "Y" of property item) of the item is aligned to the topmost (small) item.

<<When items are set by copy and paste>>

- Copy the item by clicking "Copy" in the context menu displayed by right clicking the item to be copied.
- In form designer, right click at the location where the copied item is to be pasted, display the context menu and click "Paste" to paste the item.



Note

When OS of personal computer of application maker is Windows, item can be copied using short cut keys "Ctrl"+ "C" and pasted using "Ctrl"+ "V".

Step 3 : Change item size, set input check

Since a default value is set in the attribute (type and size of characters which can be entered) of each item set in step 2, it is changed according to the requirement.

Refer "IM-FormaDesigner for Accel PlatformDesigner help" for the details of items which can be changed.

- Display / hide screen item property
 - When property of screen item is to be displayed, click the property (icon displayed on top right after selecting the screen item or double click the screen item.
 - When property of screen item is to be closed, click on any location outside the property or double click on property.

<<When display size of item is to be changed>>

- Change the display width of label (name) of field
 1. Click the corresponding item and click "Property" icon.
 2. Click "Display style" of the displayed property window.
 3. Enter the width to be set in "Label width" in pixel units.
- Change the width of input column of field
 1. Click the corresponding item and click "Property" icon.
 2. Click "Display style" of the displayed property window.
 3. Enter the width to be set in "Field width" in pixel units.

<<When check is to be set for characters entered in item>>

1. Click the corresponding item and click "Property" icon.
2. Click "Input field" of the displayed property window.
3. Click "Input validation" in the middle of the window and display setting column of check field.
 - Set the corresponding checkbox to "ON" when input is to be made mandatory or when only single byte alphanumeric characters are allowed to be entered.
 - When upper limit / lower limit of number of characters that can be entered is to be set, set as per the following.

- ④ Set input characters to more than O characters -> Enter characters equivalent to O in "Minimum letters". Consider number of characters equivalent to O as an appropriate value.
- ⑤ Set input characters to less than O characters -> Enter characters equivalent to O in "Maximum letters". Consider number of characters equivalent to O as an appropriate value.

Step 4 : Perform display settings for other locales * When multiple locales are set in application basic information

1. Change "Locale" of toolbar of form designer screen to the locale for which label of item is not set.
2. Check property of screen item of form preview area and set fields for locales which are not set.

Step 5 : Confirm setting contents of form

Confirm the setting contents of the entire form after completing each setting operation of form designer.

- ④ Check whether item name and display name can be set correctly.
 1. Click "Labels" from the toolbar of form designer.
 2. The item name on the left and the contents of the label set on the right are displayed. When the contents of label are to be changed, it can be edited by clicking the label column.
- ④ Check the item name and field name of database (Field ID, Field ID name (Japanese))
 1. Click "Fields" from the toolbar of form designer screen.
 2. The item name on the left and the contents of each field set on the right are displayed. When the contents are to be changed, it can be edited by clicking the column of the field which is to be changed.
 - ④ The items that can be changed are tab index and field identifier (Japanese).

Step 6 : Save the contents of form designer

After editing the form, click "Update" from the toolbar of form designer screen and save the form data.

Delete application form**Warning**

Ensure that the form which can be deleted is other than the main form.

Step 1 : Display form designer

1. Click "Edit" icon of the application creating form in "Application list".
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" tab of "Application history information".
5. Click "Edit" icon of form which is to be deleted.

Step 2 : Delete form

1. "Form information" is displayed.
2. Click "Delete".
3. If the message "Are you sure you want to delete?" is displayed, set the "Delete the file which stores form data." check to ON and click OK.
4. Form data is deleted.

**Note**

Note that if deletion is executed when "Delete the file which stores form data." check is OFF, the actual file of form data on intra-mart Accel Platform server is stored as garbage data without being deleted. (The remaining data cannot be reused.)

Use multiple forms in application

Only "Main form" is registered immediately after the registration of application and it is connected to the registration screen, update screen and reference screen. In IM-FormaDesigner, using forms other than main form in respective screens and setting form transition is possible by [Add form] and [Form transition] setting. According to the usage, form transition is divided into registration screen transition, update screen transition, reference screen transition. Registration screen, update screen and reference screen performing screen transition configured in multiple forms can be created by setting the added form to each form transition.

- Registration screen transition It is the form transition used as registration of data and application screen of workflow.
- Update screen transition It is the form transition used as update of data and reapplication screen of workflow.
- Reference screen transition It is a form transition used as reference of data and approval, confirmation and reference screen of workflow.

**Note**

Note that when multiple forms that are different are used in one application, if the screen item set in the main form and the screen item for which Field ID is not corresponding are set in the form other than main form and "Add to DB" is enabled, the value of the item set in the form other than main form cannot be managed in the database.

The procedure to add the form and register in screen transition is as follows.

Step 1 : Display form designer

1. Click "Edit" icon of the application creating form in "Application list".
2. Click "Form setting" tab of the displayed application information.
3. Click "Edit" icon.
4. Click "Form list" tab of "Application history information".
5. Click "Add".
6. Display form designer screen.

Step 2 : Create form by reusing (copying) main form

1. Click "Recycle form" from the form designer screen toolbar on the form designer screen to create a copy of the added form from the main form.
2. Since the list of registered forms is displayed, set the radio button of form to be used in main form or displayed form.
3. Layout of the selected form is copied.
4. Make necessary changes, click "Update" from the toolbar of form designer screen after editing the form and save the form data.

**Note**

In form transition, the following conditions should be satisfied to receive parameters from the previous form.

(1)[Field ID] should be same as that of previous form.

(2)The data type should be same as that of the previous form. (Example : String item and Hidden field for which data type is set to String.)

Step 3 : Register form transition information

1. Click "Form transition list" tab on the "Form list" screen.
2. Click "Edit details" of the setting column to be transited in the added form.
3. Click "Add" link in "Edit form transition details" and display the "Search form" screen.
4. Set the radio button of the added form to ON.
5. Set the order of the form by drag and drop in "Edit form transition details" and click "Update".

**Note**

Table settings should also be performed if the main form is changed.

Set table

The method to create a table to manage the data entered in IM-FormaDesigner is described below.

Contents

- **Table setting**
- **Function and description of each part of table creation screen**
- **Create / update table to manage input data**
- **Delete the table to manage input data**
- **Recreate table to manage input data**

Table setting

The table to save the data entered in Web application created in IM-FormaDesigner and the application screen for IM-Workflow is created automatically based on the screen items set in "Main form".

Function and description of each part of table creation screen

The contents of table creation screen are as follows.

Item name	Column name	Data type	Data size (5)	Data size(decimal)
Insert id	imfr_sd_insert_id	String	20	
Application id	imfr_sd_application_id	String	100	
Application history number	imfr_sd_application_no	Numeric value	10	0
Version	imfr_sd_version_no	Numeric value	10	0
Registration date	imfr_sd_create_date	Timestamp		
Registrant user code	imfr_sd_create_user_cd	String	100	
Updated date	imfr_sd_record_date	Timestamp		
Update user code	imfr_sd_record_user_cd	String	100	
Temporarily save flag	imfr_sd_preserve_flag	String	1	
Color	imfr_ud_color	String		
Equipment name	imfr_ud_equipment_name	String		
Maker	imfr_ud_maker	String		
Purchase unit	imfr_ud_purchase_unit	String		
Minimum quantity	imfr_ud_minimum_quantity	Numeric value		
Size	imfr_ud_size	String		
Price	imfr_ud_price	Numeric value		
Company	imfr_ud_company	String		
Additional description	imfr_ud_additional_description	String		
Locale	imfr_ud_locale	String		

1. Add

Create a table to manage the application data.

2. Header / Details

Depending on the screen item set in the main form, set header table / details in table unit from the tab.
Create table one by one in Detail table unit.

3. Table name

Set physical name of table to be set in header table and Detail table within 30 characters.

The maximum number of characters of physical name of the table can be changed by configuration file of IM-FormaDesigner.

4. Table definition information

Column name / data type are set automatically based on the setting of the fields for IM-FormaDesigner management and input fields of main form.

5. Data size

Set the required number of digits when the data type of input items set in main form matches with either "Character type" or "Numerical type".

Create / update table to manage input data

Step 1 : Display table setting screen

- Click "Table setting" tab of application basic information screen.
- Table setting screen is displayed.

Steps 2-1 : Set column (field) of table

Execute only the 2-1 procedure if "Detail table" of screen items is not used in the main form.

When new application is created and table setting is not performed

- Confirm that "There is no table setting information." is displayed and click "Add".
- The table information wherein the field of screen item for which "Add to DB" check of property field set in main form is ON and the items for internal management of IM-FormaDesigner are set as column of table, is displayed.
- Enter data size of column having "Data type" as "String", "Number" in the screen item column for which the "Add to DB" check of property field is "ON" in the main form.
 - Enter "Data size" for string.
 - Enter 2 fields, "Data size" and "Data size (decimal)" for the numerical value.
- Confirm that no setting is omitted in the setting contents of table and click "Add" on the top of the screen.
- Click "OK" on the registration confirmation message.
- **Header table** is created.



Warning

Set the value of data size similar to "Maximum letters", "(Number of digits) of maximum input value" of the screen item corresponding to column (field) of table or a greater value.

The unit of data size can be "Byte" according to the type of database used in intra-mart Accel Platform. Enter the number of bytes by referring the number of characters to be entered and character code of database.

When table setting is performed after application creation (Update)

Table setting should be performed if screen items set in main form are added / deleted after the previous table setting.

- Confirm that information of created table is displayed in "Table setting" and click "Update".
- If it is required to add the column corresponding to the screen item added in the table, enter "Data size" and "Data size (decimal)" as per the requirement as it is automatically added and displayed.
- Confirm that no setting is omitted in the setting contents of table and click "Update" on the top of screen.
- Click "OK" on the update confirmation message.
- Table is updated.

Step 2 : Set column (field) of table

When "Detail table" of screen item is used in main form, execute 2-2 procedure after 2-1 procedure.

When "Detail table" of screen item is used within the main form, it is required to create 1 Detail table for 1 Detail table.

- Regarding **Header table**, set "Data size", "Data size (decimal)" according to **Create / update the table to manage input data**.
- In case of the main form in which Detail table is set, click "Detail table" tab as "Header table" "**Detail table**" is displayed by tab.
- The table information wherein the field for which "Add to DB" check of column property field of "Column" set in Detail table is ON and the fields for internal management of IM-FormaDesigner are set as column (field) of table, is displayed.
- Enter data size of the column having "Data type" as "String" "Number" for the column for which "Add to DB" check for column property field is "ON".
- Modify the name of header table and Detail table such that it is within 30 characters and click "Add" on the top of the screen.
- Click "OK" on the registration confirmation message.
- "Header table", "Detail table" are created.

Delete the table to manage input data

Step 1 : Display table setting screen

- Click "Table setting" tab of application basic information screen.
- Table setting screen is displayed.

Step 2 : Delete table information

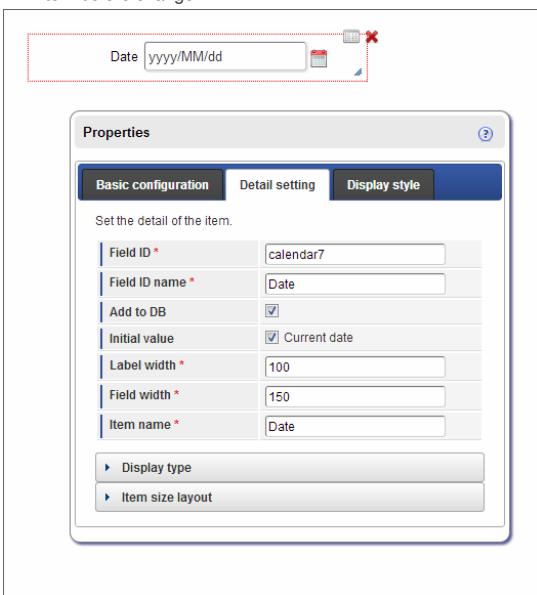
- Click "Delete" on the bar at the top.
- The confirmation message "Are you sure you want to delete the table information?" is displayed. If header table / Detail table on the database are also to be deleted, set the check of "Delete the table which stores application data." to ON and click "OK". If the table on the database is not to be deleted, click "OK" without setting the check to "ON".
- Table is deleted.

Recreate table to manage input data**When it is required to recreate the table**

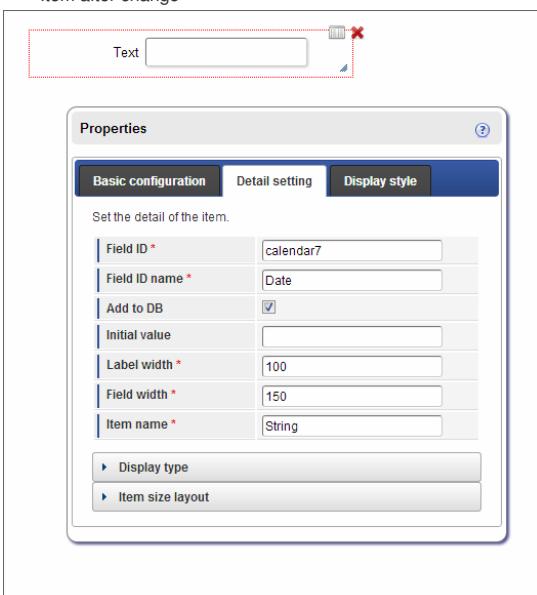
When main form is changed and it is applicable to the following case, it is required to recreate (delete -> create) the table.

- Change the data type of item set in table field (Setting screen item of different attribute with same item ID)

○ Item before change



○ Item after change

**Step 1 : Display table setting screen**

- Click "Table setting" tab of application basic information screen.
- Since table setting screen is displayed, click "Refer".
- Check the setting contents of table.

Step 2 : Save table data

- When table is recreated, the data registered till that time is deleted, hence when table is to be transited after recreation, create copy of another table by database management tool and save the data.

Step 3 : Delete table information

- Click "Delete" on the bar at the top.
- The confirmation message "Are you sure you want to delete the table information?" is displayed. To delete the header table / Detail table on the database, set the "Delete the table which stores application data." check to ON and click "OK".

Step 4 : Create table

- Change form item.
- Confirm that "Table setting information does not exist" is displayed and click "Add".
- Enter the data size of column having "Data type" as "String" "Number" in the column of screen item for which "Add to DB" check for property field is "ON" in the main form.
- Confirm that the field of table corresponding to screen item for which data type is changed in screen item on main form, is changed.
- Confirm that setting is not omitted in setting contents of table.
- When "Add" on the top of screen is clicked, **Header table**, (**Detail table** if Detail table exists) is created.
- Use the database management tool when the data of the table before deletion is to be inserted into new table.

Perform WF relation setting

The method to use the application created in IM-FormaDesigner into IM-Workflow is described below.
While performing the settings, it is a prerequisite that the target application is created previously.

Contents

- **WF relation setting**
- **Function and description of each part of WF relation setting screen**
- **Function and description of each part of contents linkage information registration screen**
- **Function and description of each part of approval screen setting screen**
- **Function and description of each part of job property setting screen**
- **Function and description of each part of 'Append setting' screen**
- **Set the fields required to be used with IM-Workflow in the application**
- **Register application in IM-Workflow and use as Application/Approval screen.**
- **Update IM-Workflow linkage information**
- **Remove (Delete) IM-Workflow linkage information**
- **Use the application created in the version prior to IM-FormaDesigner 2013 Spring in smartphone**

WF relation setting

The application created in IM-FormaDesigner can be used as application screen and approval screen of IM-Workflow.
"WF relation setting" are the settings to use the created IM-FormaDesigner application in IM-Workflow.

Function and description of each part of WF relation setting screen

The contents of WF relation setting screen are as follows.

Edit	Contents id	Contents name	Remarks
	sample_purchase_app	Application for equipment purchase(IMW)	
	sample_purchase_appl	[Sample]Application for equipment purchase(IMW)	

1. Add

Display the registration screen to link the application as contents definition of IM-Workflow.

2. Search contents definition

Search the list of linkage information of the registered contents definition by considering the contents definition name as the condition. (Partial match)

3. Interoperation information

Display the list of linkage information with contents definition registered in the application.
If "Edit" icon is clicked, edit screen of contents linkage information is displayed.

Function and description of each part of contents linkage information registration screen

The contents of 'Contents linkage information registration' screen are as follows.

Interoperation information	
(1) Contents id *	<input type="text"/>
(2) Application name	<input type="text"/> [Sample]Application for equipment purchase(IMW) <input checked="" type="checkbox"/> Set the job property name to the application name. <input type="checkbox"/> Add setting to use a stamp.
(3) Start date *	<input type="text"/>
(4) End date	<input type="text"/>
English	
(5) Contents name *	<input type="text"/>
(6) Remarks	<input type="text"/>
Japanese	
Contents name *	<input type="text"/>
Remarks	<input type="text"/>
Chinese	
Contents name *	<input type="text"/>
Remarks	<input type="text"/>
Add	

1. Contents ID

Enter a single byte alphanumeric ID for identification of contents definition of IM-Workflow.

2. Application name

Display the target application to register the contents definition linkage information.

- ① Set the job property name to the application name

Application name can be set as the default value of the job name while executing the application of IM-Workflow.

- ② Add setting to use a stamp

Set in case of using screen item "Display stamp" in application form.

3. Start date

Set the version period (Start date) of the created contents definition.

4. End date

Set the version period (End date) of the created contents definition.

If it is not entered, "2999/12/31" is set as the default value.

5. Contents name

Set the name which can be uniquely identified as contents definition for each locale.

The entered contents are reflected in "Contents name" of basic information of contents definition of IM-Workflow.

6. Remarks

Set the contents to be displayed as 'Remarks' of contents.

The entered contents are reflected in "Remarks" of basic information of contents definition of IM-Workflow.

Function and description of each part of approval screen setting screen

The contents of approval screen setting screen are as follows.

Add approval screen setting

Select target version (1)

(2) Application history number *	<input type="text" value="1"/>
(3) Flow id *	<input type="text"/>
(4) Node id *	<input type="text"/>
(5) Reference transition *	Reference screen

Add

1. Select target version

Display the screen that searches the application history number performing approval screen setting.

2. Application history number

Set the application history number performing approval screen setting.

3. Flow ID

Set the flow ID of the target flow definition performing approval screen setting.

4. Node ID

Set node ID of target flow definition performing approval screen setting.

5. Reference transition

When multiple reference screens are set in form transition information of the application, select the reference screen to be displayed at the time of target flow definition / node.

**Note**

When "Vertical alignment" and "Horizontal alignment" is set to the target node of "Approval screen setting", "Job property setting", "Append setting", the setting contents are applied to all nodes where "Vertical alignment" and "Horizontal alignment" is deployed.

Function and description of each part of job property setting screen

The contents of job property setting screen are as follows.

Add job property setting

Select target version (1)

(2) Flow id *	<input type="text"/>
(3) Node id *	<input type="text"/>
(4) Job property key *	item_total Total amount
(5) Item id *	

Add

1. Select target version

Display screen to search application history number performing job property registration.

2. Flow ID

Set the flow ID of target Flow Definition performing job property registration.

3. Node ID

Set the node ID of target Flow Definition performing job property registration.

4. Job property key

Select contents definition of IM-Workflow.

5. Item ID

Select the combination of "Flow ID" and "Flow name" on the application form in which value is registered as condition property.

- ▣ Condition of screen item that can be set in job property

The fields which can be set in job property match with all the following conditions.

- ▢ Screen items with similar Field ID should be set in the main form
- ▢ "Add to DB" should be enabled (Check: ON)
- ▢ Display type: The screen category of the set node should be set to 'Enterable' or 'Refer'
- ▢ Set the node to one of the following: application, approval, arrange vertically, arrange horizontally, dynamic approval.
- ▢ It should not be screen item ("Detail table")

- ▢ Timing to register/update job property value

Register/update the job property value at the following timing.

- “Temporary save” or “Application” is performed at the application node
- “Approval” is performed at approval, arrange vertically, arrange horizontally and dynamic approval node

Function and description of each part of ‘Append setting’ screen

The contents of ‘Append setting’ screen are as follows.

(2) Application history number *	<input type="text" value="1"/>
(3) Flow id *	<input type="text"/> <input type="button" value="🔍"/>
(4) Node id *	<input type="text"/> <input type="button" value="🔍"/>
(5) Form id *	<input type="button" value="▼"/>
(6) Item id *	<input type="button" value="▼"/>
(7) Append type *	Appendable <input type="button" value="▼"/>

Add

1. Select target version

Display screen to search application history number performing ‘Append setting’.

2. Application history number

Set application history number performing ‘Append setting’.

3. Flow ID

Set flow ID of target Flow definition performing ‘Append setting’.

4. Node ID

Set node ID of target Flow definition performing ‘Append setting’.

5. Form ID

Set form name of target application performing ‘Append setting’.

6. Item ID

Select “Item name” of the field considered for ‘Append setting’.

7. Append type

Select attribute (Appendable/non-display) of ‘Append setting’ target item during node processing of the set flow definition.

- Condition of screen item that can be set in ‘Append setting’

The fields which can be set in ‘Append setting’ match with all the following conditions.

- Screen items with similar Field ID should be set in the main form
- “Add to DB” should be enabled (Check: ON)
- Display type: It should be set to ‘Refer’ for approval
- Set the node to one of the following: application, approval, arrange vertically, arrange horizontally, dynamic approval.

Set the fields required to be used with IM-Workflowin the application

Step 1: Set application type

Set the application type to “IM-Workflow” to use the application created in IM-FormaDesignerinto IM-Workflow.

1. Display application basic information -> **Set basic information of IM-FormaDesigner application**
2. Confirm that the “Application type” is displayed as “IM-Workflow”. If “Standard” is displayed, change to “IM-Workflow” and click “Update”.

Step 2: Set the screen to display screen items

Set display/Enterable flag of screen items placed in the form of the created application for each screen.

1. Display form/designer -> **Create application form**
2. Click the set screen item and click “Property” icon.
3. Click “Item” of the displayed property window.
4. Click “Display type” at the lower part of the window and display display/Enterable setting column. Refer -> Display type of screen item for more details on setting method of display type
5. Change display/Enterable setting contents in each processing screen.
6. When the changes of setting contents are complete, click “Update” of form designer to save the contents.

Step 3: Add screen (Form) for approval

If the created application is to be used as approval (Reference) screen, set while using the form of different layout.

Setting is not required in case of considering single layout at the time of approval (Reference).



Warning

Note that multiple reference (Approval) screens can be set in one IM-FormaDesigner application, however, only one registration/update screen can be set.

Step 3-1: Add form

- Refer to **Step 3: Edit form layout** and add form to the application.

Step 3-2: Edit form layout

- Click "Recycle form" in form designer and copy the layout of main form to the added form.
- Add/delete screen items in the layout of the added form, click "Update" to save the form.
- Click "Back" on the left of the form designer toolbar and display "Form list".

Step 3-3: Set the added form to reference screen of application

- Click "Form transition list" of the form list screen displayed by the step 3-2 procedure.
- Click "Add" of "Reference screen transition".
- Enter the screen name of the created form in "Transition name" and click "Add".
 - "Transition name" is used in "Reference Transition name" of "Approval screen setting" in "WF relation setting" of step 4.
- Click the displayed "Link".
- Click the radio button on the left of the target form name from "Search form".
- Click "Update" to save the form transition information of the added form.
- In case of setting the added form as the default approval (Reference) screen, click "Default" of reference screen transition.
 - In the default column, the form for which checkmark is set to ON, is the default approval (Reference) screen.
- Click "OK" on the dialog box of "Are you sure you want to set {Transition name} in default form transition?".

Register application in IM-Workflow and use as Application/Approval screen.

After performing the settings in IM-FormaDesigner, register the created application in IM-Workflow.

Step 1: Set the basic information to link with IM-Workflow ("contents definition")

- Display "Application list" of menu.
- Click "Edit" icon of the target application name.
- Click the "WF relation setting" tab.
- Enter the required information in contents (Screen component) of workflow.
 - Refer "IM-Workflow Administrator Guide" for the input contents of both items.
- Click "Add" after entering the required information.
 - In case of using "Display stamp" item in the form, check the "Add setting to use a stamp." checkbox. User program for seal impression process is added in the contents to be registered.
- The created application is added in contents definition of IM-Workflow.



Warning

Do not change the predefined setting contents for the linkage settings of IM-FormaDesigner and IM-Workflow.

When the predefined contents of linkage settings are changed, the application linked with IM-Workflow may not run properly.

Step 2: Set route definition of IM-Workflow

- Set **Route definition** based on the procedure of IM-Workflow route definition.

Step 3: "Flow definition" that sets flow definition of IM-Workflow

- Set **Flow definition** based on the procedure of IM-Workflow flow definition.

 - Set the application (contents definition) registered in step 1 in "Contents definition" in "Flow definition - Version - Edit".
 - Flow definition is saved when required information is entered in flow definition and "Update" is clicked.

Step 4: Set approval screen of IM-Workflow

Perform this procedure when the following conditions are met.

- Screen for approval is added in the application used in contents definition -> **Step 3: Add screen for approval (Form)**
- Display different reference screen (Form) for each approver (Node).
 - Display "Application list" of menu.
 - Click "Edit" icon of the target application name.
 - Click the "WF relation setting" tab.
 - Click "Approval screen setting" tab and display the "Approval screen setting" screen.
 - Click "Add" of the toolbar on top of the screen.
 - Click the "Magnifying glass" icon on the right of flow ID, select the target flow and node from the 'Search flow' screen and click "OK".
 - Select the form for approval screen to be set from "Reference transition" dropdown list and click "Add". The approval screen is set.

Step 5: Set job property information of IM-Workflow

Set in case of using the value of the field entered on the screen at the time of application in each function of IM-Workflow.

<<Setting example>>

- Display as item of "Unprocessed" screen or "Processed" screen
- Create a process notification mail (Approval request mail etc.) including the value entered in mail text and send automatically
- Use as branching condition of the flow depending on the input value

<<Prerequisite>>

- Job property key should be registered based on the registration procedure of job property of "IM-WorkflowAdministrator Guide"
 1. Display "Application list" of menu.
 2. Click "Edit" icon of the target application name.
 3. Click the "WF relation setting" tab.
 4. Click "Job property setting" tab and display "Job property setting" screen.
 5. Click "Add" of the toolbar on the top of the screen.
 6. Click the "Magnifying glass" icon on the right of flow ID, select the target flow, node from the 'Search flow' screen and click "OK".
 7. Set the previously created job property key in "Job property key".
 8. The screen item set in application form which can correspond to the selected job property key is displayed as candidate for "Item ID".
 9. If item ID corresponding to job property key is set and "Add" is clicked, it is registered as job property item.

**Note**

Only the items which can be linked with job property are displayed in item ID.

After registering the job property setting, change the corresponding item of the form. If the condition by which job property linkage is possible is not met, value is not set in job property at the time of application and approval.

It is required to get the job property key and type for the item that sets job property. If registration is performed with a different type, error occurs during the registration. Even if registration is successful, error may occur if sorting is done by corresponding items of IM-Workflowlist.

In case of setting date type and timestamp fields, format should be set to "yyyy/MM/dd" and type of job property key should be set to string. If the format differs, it does not match with the search condition.

Step 6: Set items for which input/change is possible in the approval screen of IM-Workflowin "Append setting"

If "Append setting" is performed, at the time of editing the form, the items set to "During approval: Display/Enterable" by the display type of property of screen item can be edited (entered) by the approver while using the workflow.

If 'Append setting' is performed correctly, settings such as 'Only specific approver can input/edit the items of approval screen' or 'Do not display item' can be performed.

<<Prerequisite>>

- The corresponding items of form should meet the following conditions for the items for which 'Append setting' is performed.
 - [Display type: Approval] should be "Refer"
 - [Add to DB] should be ON.
1. Display "Application list" of menu.
 2. Click "Edit" icon of the target application name.
 3. Click the "WF relation setting" tab.
 4. Click the "Append setting" tab and display the "Append setting" screen.
 5. Click "Add" on the toolbar on the top of the screen.
 6. Click the "Magnifying glass" icon on the right of flow ID, select target flow, node from the 'Search flow' screen and click "OK".
 7. If "Form ID" "Item ID" "Append type" is set and "Add" is clicked, screen items specified in the approver screen of the set approval node can be entered/displayed.
 - Form ID: Set the form which is used in the created application. (Dropdown list)
 - Item ID: Set the screen items for which 'Append setting' is to be performed in the screen items placed in the target application form.
 - Append type: Select "Appendable" if display/Enterable is to be set in the approval screen in the set approval node and select "Non-display" if it is not to be displayed.

**Note**

Only the items for which 'Append setting' can be performed are displayed in item ID.

After registering 'Append setting', change the corresponding item of form. If the condition by which 'Append setting' is possible is not met, 'Append setting' does not function during approval.

Ensure that there is no inconsistency if the form item settings are to be changed.

(Example) If [Display type: Approval] of screen item of main form is changed from [Refer] to [Enterable], 'Append setting' does not function since [Refer] is required for 'Append setting'.

Update IM-Workflowlinkage information**Step 1: Display linkage information setting screen of IM-Workflow**

1. Display "Application list" of menu.
2. Click "Edit" icon of target application name.
3. Click "WF relation setting" tab.

Step 2: Change approval screen of IM-Workflow**To add approval screen**

1. Click the "Approval screen setting" tab and display the "Approval screen setting" screen.
2. In case of adding the approval screen, click "Add" of the toolbar on top of the screen.
3. Click the "Magnifying glass" icon on the right side of flow ID, select target flow and node from the 'Search flow' screen and click "OK".
4. Select the form for approval screen to be set from dropdown list of "Reference transition", click "Add" and the approval screen is set.

To change approval screen

1. Click the "Approval screen setting" tab and display the "Approval screen setting" screen.
2. Click "Edit" icon of the contents that are to be changed from the registered approval screen setting list.
3. Select form for approval screen to be set from dropdown list of "Reference transition", click "Add" and the approval screen is set.

Step 3: Change job property information of IM-Workflow

1. Display "Application list" of menu.
2. Click "Edit" icon of the target application name.
3. Click "WF relation setting" tab.
4. Click "Job property setting" tab and display the "Job property setting" screen.

To add job property

1. Click "Add" of the toolbar on the top of the screen.
2. Click the "Magnifying glass" icon on the right side of flow ID, select target flow and node from the 'Search flow' screen and click "OK".
3. Set the job property key created previously in "Job property key".
4. Screen item set in the form of application that can correspond to the selected job property key is displayed as a candidate for "Item ID".
5. It is registered as job property item when item ID corresponding to job property key is set and "Add" is clicked.

To change job property

1. Click "Edit" of the row of job property that is to be changed from the registered job property list displayed on the screen.
2. Set the job property key created previously in "Job property key".
3. Screen item set in the form of application that can correspond to the selected job property key is displayed as a candidate for "Item ID".
4. The contents of job property item are changed when item ID corresponding to job property key is set and "Update" is clicked.

Step 4: Change the items that can be entered/changed on the approval screen of IM-Workflow in "Append setting"

1. Display "Application list" of menu.
2. Click "Edit" icon of the target application name.
3. Click "WF relation setting" tab.
4. Click "Append setting" tab and display the "Append setting" screen.

To add items for which 'Append setting' is possible

1. Click "Add" of the toolbar on the top of the screen.
2. Click the "Magnifying glass" icon on the right side of flow ID, select target flow and node from 'Search flow' screen and click "OK".
3. If "Form ID", "Item ID" and "Append type" is set and "Add" is clicked, screen item specified on approver screen of the set approval node can be entered/displayed.
 - Form ID: Set the form which is used by the created application. (Dropdown list)
 - Item ID: Set the screen item for which 'Append setting' is to be performed by the screen item set in the form of target application.
 - Append type: Select "Appendable" when display/Enterable is possible on the approval screen of the set approval node and select "Non-display" if it is not displayed.

To change the item for which 'Append setting' is possible

1. Click "Edit" of target data from list of 'Append setting' displayed on the screen.
2. If "Form ID", "Item ID" and "Append type" are set and "Update" is clicked, the item of 'Append setting' is changed.

Remove (Delete) IM-Workflow linkage information**Step 1: Delete contents definition of IM-Workflow**

- Refer "IM-Workflow Administrator Guide" for the detailed procedure.

Step 2: Delete linkage information of IM-Workflow

1. Display "Application list" of menu.
2. Click "Edit" icon of the target application name.
3. Click "WF relation setting" tab.
4. Click "Delete" in "Contents interoperation information".

Step 3: Delete application

- Perform the following procedure if the application is also to be deleted.

-> **Delete IM-FormaDesigner application**

Use the application created in the version prior to IM-FormaDesigner 2013 Spring in smartphone

Perform the following settings to apply/approve by smartphone from the application with WF relation setting in the version prior to IM-FormaDesigner 2013 Spring.

Perform screen settings for smartphone in contents definition

1. Click in the order of "Site map" -> "Workflow" -> "Workflow administrator" -> "Master definition" -> "Contents definition".
2. Click the "Edit" icon of created contents definition.
3. Click "Version".
4. Click the "Edit" icon of target version.
5. Click "Screen".
6. Click "Create new".
7. Click "Register" after entering as shown in the following screen.

Screen definition - Create new

Screen name ^(Required)	English: Application screen Japanese: 申請画面 Chinese: 申请画面
Screen type ^(Required)	Apply screen (For smart phone)
Path type ^(Required)	Script development model
Script path ^(Required)	forma/imw/view/smartphone/apply_view
Remarks	English: Japanese: Chinese:
Initial use	<input checked="" type="checkbox"/> Use in the flow initial settings

Item	Input value
Screen name	Application screen
Screen type	Application screen (for smartphone)
Path type	Script development model
Script path	forma/imw/view/smartphone/apply_view

8. Register all the following screens by repeating procedure 6~7.

② Application (issue item) screen

Screen definition - Create new

Screen name ^(Required)	English: Awaiting application screen Japanese: 未申請画面 Chinese: 未申请画面
Screen type ^(Required)	Apply (Application job) screen (For smart phone)
Path type ^(Required)	Script development model
Script path ^(Required)	forma/imw/view/smartphone/apply_view
Remarks	English: Japanese: Chinese:
Initial use	<input checked="" type="checkbox"/> Use in the flow initial settings

Item	Input value
Screen name	Awaition application screen
Screen type	Application (Application job) screen (for smart phone)
Path type	Script development model
Script path	forma/imw/view/smartphone/apply_view

③ Temporary storage screen

Screen definition - Create new

Screen name ^(Required)	English: Save temporarily screen Japanese: 一時保存画面 Chinese: 临时保存画面
Screen type ^(Required)	Temporary save screen (For smart phone)
Path type ^(Required)	Script development model
Script path ^(Required)	forma/imw/view/smartphone/apply_view
Remarks	English: Japanese: Chinese:
Initial use	<input checked="" type="checkbox"/> Use in the flow initial settings

Item	Input value
Screen name	Save temporary screen
Screen type	Temporary save screen (For smart phone)
Path type	Script development model
Script path	forma/imw/view/smartphone/apply_view

④ Reapply screen

Screen definition - Create new

Screen name ^(Required)	English: Re-application screen Japanese: 再申請画面 Chinese: 再申请画面
Screen type ^(Required)	Re-apply screen (For smart phone)
Path type ^(Required)	Script development model
Script path ^(Required)	forma/imw/view/smartphone/retry_view
Remarks	English: Japanese: Chinese:
Initial use	<input checked="" type="checkbox"/> Use in the flow initial settings

Item Input value

Screen name	Re-application screen
Screen type	Re-apply screen (For smart phone)
Path type	Script development model
Script path	forma/imw/view/smartphone/retry_view

⑤ Processing screen

Screen definition - Create new

Screen name ^(Required)	English: Processing screen Japanese: 处理画面 Chinese: 处理画面
Screen type ^(Required)	Processing screen (For smart phone)
Path type ^(Required)	Script development model
Script path ^(Required)	forma/imw/view/smartphone/approve_view
Remarks	English: Japanese: Chinese:
Initial use	<input checked="" type="checkbox"/> Use in the flow initial settings

Item Input value

Screen name	Processing screen
Screen type	Processing screen (For smart phone)
Path type	Script development model
Script path	forma/imw/view/smartphone/approve_view

⑥ Confirm screen

Screen definition - Create new

Screen name ^(Required)	English: Confirmation screen Japanese: 確認画面 Chinese: 确认画面
Screen type ^(Required)	Confirmation screen (For smart phone)
Path type ^(Required)	Script development model
Script path ^(Required)	forma/imw/view/smartphone/approve_view
Remarks	English: Japanese: Chinese:
Initial use	<input checked="" type="checkbox"/> Use in the flow initial settings

Item Input value

Screen name	Confirmation screen
Screen type	Confirmation screen (For smart phone)
Path type	Script development model

Item	Input value
Script path	forma/imw/view/smartphone/approve_view

9. Settings for smartphone are done in contents definition.

Functions supported by multiple companies

Set application administration company information

The setting of the company that can manage created applications is described below.

Contents

- Application administration company setting
- Function and description of each part of application administration company setting screen
- Set the company to which the user, who is the application administrator, belongs

Application administration company setting

administration company setting limits the affiliated company of the user who can manage (Refer [Create Web application in IM-FormaDesigner](#) for details) the applications created in IM-FormaDesigner .

If the application administration company is set, then only the user who belongs to the set company can manage the created applications.

Function and description of each part of application administration company setting screen

The contents of application administration company setting screen are as follows.

1. Administration company setting

The setting of application administration company can be switched between Enabled (Check : ON) and Disabled (Check : OFF). When application administration company setting are enabled, "Add the administration company", "Delete checked administration company" link are enabled.

2. Add the administration company

Search and set the company to be set as application administration company.

3. Delete checked administration company

From the registered companies displayed in the application administration company list, delete the setting information of the application administration company for which the check is "ON".

Set the company to which the user, who is the application administrator, belongs

Step 1 : Display application administration company setting screen

- Click the "Administration company setting" tab of the application basic information screen.
- "Application administration company setting" screen is displayed.

Step 2 : Enter required items in company setting

- When the company to be managed is to be set, set the "Administration company setting" check to ON.
- If "Add the administration company" is clicked and the company to be managed is selected and added, administration is possible only by the users of the affiliated company.



Warning

Only the application creation manager of IM-FormaDesigner can change the setting contents of administration company setting.

Administration company setting

- Set the company that can manage (edit form etc.) the application.
 - When check is "ON", it is necessary to set the company to which the user who can manage the application, belongs.
 - When check is "OFF", the user who can manage the application overcomes the limits by the company to which he belongs.
 - If the check is set from "ON" to "OFF", entire settings of administration company are deleted.

Add the administration company

When "Administration company setting" is set, the screen to search and add the company to which the user who can manage application belongs, is displayed.

Delete checked administration company

When "Administration company setting" is set, the setting of company to which the user who can manage the set application, belongs, is deleted.

Application administration company list

The companies to which the users who can manage application as an administrator of corresponding application are displayed in a list.

Set the query administration company information

The setting of the company that can manage the created query is described below.

Contents

- [Query administration company setting](#)
- [Set the company to which the user, who is the query administrator, belongs](#)

Query administration company setting

Administration company setting are the settings to limit the administration company of the query (Refer [Create / Update / Delete query](#) for the details) created in IM-FormaDesigner.

If query administration company setting are performed, it is possible to limit the query which can be used from the application based on the query administration company that is set.

Set the company to which the user, who is the query administrator, belongs

Step 1: Display the query administration company setting screen

- Click the "Administration company setting" tab of the query basic information screen.
- "Query administration company setting" screen is displayed.

Step 2: Enter the items required for company setting

- In case of setting the administration company, set the "Administration company setting" check to ON.
- If "Administration company setting" is clicked and administration company is selected and added, only the applications set in administration company can be used.



Warning

Only application creation management of IM-FormaDesigner can change the setting contents of query administration company setting.

Administration company setting

- Set the company that can manage (edit SQL etc.) the query.
 - If the check is ON, it is necessary to set the administration company of the query that can be used from the application.
 - If the check is OFF, the query that can be used from the application overcomes the limits by the query administration company.
 - If the check is set from ON to OFF, all the settings of query administration company are deleted.

Add the administration company

In case "Administration company setting" is set, the screen to search and add the administration company of the query that can be used from the application is displayed.

Delete checked administration company

In case "Administration company setting" is set, the settings of administration company of the query that can be used from the application are deleted.

Query administration company setting

As an administrator of the corresponding query, administration company of the query that can be used from the application is displayed in a list.

Set the numbering rule definition administration company information

The setting of the company that can manage the created numbering rule definition is described below.

Contents

- Numbering Rule Definition Management Company Setting
- Set the company to which the user, who is the administrator of numbering rule definition, belongs

Numbering Rule Definition Management Company Setting

Administration company setting limits the administration company of the numbering rule definition (Refer [Use numbering function](#) for the details) created in IM-FormaDesigner.

If the Numbering Rule Definition Management Company Setting are performed, it is possible to limit the numbering rule definition which can be used from the application based on the numbering rule definition administration company that is set.



Warning

If the user having important membership information has created numbering rule definition for the company, it is registered as administration company setting of numbering rule definition.

Set the company to which the user, who is the administrator of numbering rule definition, belongs

Step 1: Display Numbering Rule Definition Management Company Setting screen

- Click the "Administration company setting" tab of the numbering rule definition update screen.
- "Numbering Rule Definition Management Company Setting" screen is displayed.

Step 2: Enter the items required for company setting

- In case of setting the administration company, set the "Administration company setting" check to ON.
- If "Add the administration company" is clicked and the administration company is selected and added, only the applications set in the administration company can be used.



Warning

Only application creation manager of IM-FormaDesigner can change the setting contents of Numbering Rule Definition Management Company Setting.

Administration company setting

- Set the company that can manage (edit, initialize numbering rule definition etc.) numbering rule definition.
 - When check is ON, it is necessary to set the administration company of numbering rule definition that can be used from the application.
 - When check is OFF, numbering rule definition that can be used from the application overcomes the limits by the numbering rule definition administration company.
 - If the check is set from ON to OFF, all the settings of administration company are deleted.

Add the administration company

When "Administration company setting" is set, the screen to search and add the administration company of numbering rule definition that can be used from the application is displayed.

Delete checked administration company

In case "Administration company setting" is set, the settings of administration company of numbering rule definition that can be used from the application are deleted.

As an administrator of the corresponding numbering rule definition, administration company of numbering rule definition that can be used from the application is displayed in a list.

Other application-wise functions

Migration of data source definition and application of IM-FormaDesigner using import / export

Data source definition and application created in IM-FormaDesigner can be migrated between intra-mart Accel Platform servers of same versions using external file.

The migration method of data source definition and application of IM-FormaDesigner between intra-mart Accel Platform servers of same version is described below.

Refer "Migration guide (Japanese)" for the migration between different versions (version 7.2 -> IM-FormaDesigner for Accel Platform~).

Contents

- Prerequisites for import / export
- Contents in IM-FormaDesigner which can/cannot be migrated
- Function and description of each part of application information import screen
- Function and description of each part of application information export screen
- Function and description of each part of data source definition import screen
- Function and description of each part of data source definition export screen
- Output application as migration file (Export application)
- Import an application from migration file (Import application)
- Output data source definition as migration file (Export data source definition)
- Import data source definition from migration file (Import data source definition)
- Output numbering rule definition as migration file (Export numbering rule definition)
- Import numbering rule definition from migration file (Import numbering rule definition)
- Application migration after operation

Prerequisites for import / export

Regarding data source definition / application created in IM-FormaDesigner, migration is possible between same versions using import / export.

- When database of migration source or destination environment is Microsoft SQLServer , data type is different, hence migration process cannot be performed with other databases.
When either of the migration environment is SQL Server, both migration source and destination should be adjusted to Microsoft SQLServer.
- The data related to IM common master such as role, user, organization and public group set by authorization settings should be set previously in migration destination environment.

Contents in IM-FormaDesigner which can/cannot be migrated

The migration target described later are the contents at the time of using migration (import / export) in IM-FormaDesigner and when IM-Workflow linkage is set, it is required to execute migration (import / export) process in a separate IM-Workflow.

Application migration

Application migration should be executed in each application.

Contents which can be migrated (contents included in migration file)

- Form definition information and file (screen information and image file created in IM-FormaDesigner)
- Form transition information
- Application information and history
- Table setting information of application
- Displaying list item setting information of application
- Authorization setting information of application
- IM-Workflow linkage information
- Application administration company setting

Contents which cannot be migrated (contents that should be reconfigured after file migration)

- Menu setting information of application
- Data registered from registration screen using form and application
- Data registered from application / approval screen in the application linked with IM-Workflow
- Source file of user program set in the application

Data source definition migration

Data source definition migration cannot be executed by restricting to a particular data source definition.

Contents which can be migrated

- Data source definition information and file (SQL information created on data source definition screen)

Contents which cannot be migrated

Since the following items are included in the migration scope of the application, they are not included in data source definition migration.

- Setting information of data source definition set in form of IM-FormaDesigner application

Numbering rule definition migration cannot be executed by restricting to a particular rule definition.

Contents which can be migrated

- Setting information, current number of numbering rule definition

Contents which cannot be migrated

Since the following items are included in the migration scope of the application, they are not included in numbering rule definition migration.

- Setting information of numbering rule definition set in form of IM-FormaDesigner application



Note

If numbering rule definition is not migrated in the application using numbering, the setting of numbering is changed to "Numbering by system".

Function and description of each part of application information import screen

The contents of application information import screen are as follows.

1. File to import

Select the acquisition source of the definition file of the application to be imported.

- Local file

Select when local file of the machine executing it is to be imported.

- Storage

Select when files under 'storage' are to be imported.

2. Execute import

Execute import.

Function and description of each part of application information export screen

The contents of application information export screen are as follows.

Export	Application id	Latest version	Application name	Remarks
	sample_address_chg	1	[Sample] Notification of change address, Etc.	
	sample_app_equipment	2	[Sample] Equipment management	Control the equipment which can be used in purchase application.
	sample_bihin_mochidashi	1	[Sample] The application to take out a equipment	
	sample_enquete	1	[Sample] Enquete	
	sample_enquete1	1	[Sample] Questionnaire for the course attendants	This is the sample of the questionnaire for the course attendants.
	sample_keireki	1	[Sample] Resume	
	sample_mailmagazine	1	[Sample] E-mail newsletter subscription registration	This is an application to make the subscription of the e-mail newsletter.
	sample_purchase_application	1	[Sample] Application for equipment purchase(IMW)	This is the sample of application for equipment purchase which can be used in IM-Workflow.
	sample_ringi	1	[Sample] Request for decision	

1. Destination

Select output destination of definition file of the application to be exported.

- Download

Select when a file is to be downloaded on the machine executing it.

- Storage

Select when files are to be exported under 'storage'.

2. Search

Set search condition to narrow down the application list to be displayed on the screen.

- Admin company name

Narrow down the application to be displayed in application list of the screen by application management company.

- Application name

Narrow down with application name as the condition. (Search by partial match.)

The names of all the locales set in the application are considered for the target application name.

3. Application list

Select export target in each application and export the definition file.

- Export

Export the definition file of the selected application.

- Application ID

Display application ID.

- Latest version

Display the latest version number of application ID.

- Application name

Display application name of locale of the user.

- Remarks

Display the contents of 'Remarks' of locale of the user.

Function and description of each part of data source definition import screen

The contents of data source definition import screen are as follows.

Import datasource information

(1) File to import * Local file No file chosen
 Storage storage/

(2)

1. File to import

Select acquisition source of the definition file of the query (data source definition) to be imported.

- Local file

Select when local file of the machine executing it is to be imported.

- Storage

Select when files under 'storage' are to be imported.

2. Execute import

Execute import.

Function and description of each part of data source definition export screen

The contents of data source definition export screen are as follows.

Export datasource information

(1) Destination Download
 Storage storage/

(2)

1. Destination

Select output destination of the definition file of the query (data source definition) to be exported.

- Download
Select when a file is to be downloaded on the machine executing it.
- Storage
Select when files under 'storage' are to be exported.

2. Execute export

Execute export.

Output application as migration file (Export application)

Step 1 : Display migration file output (export) screen of application information

*The following procedure is described from the screen after login to intra-mart Accel Platform .

- Move to "Forma Management Page" -> "Application migration" -> "Application information export" from the menu.
- "Export application information" screen is displayed.

Step 2 : Output (export) migration file of application information

- Select output destination of migration file.
 - When the local disk of user executing it is to be considered, set "Output destination" to "Download".
 - When folder under storage of intra-mart Accel Platform server is to be considered, set "Output destination" to "Storage" and enter the folder name under 'storage'.



Note

If a folder does not exist under 'storage', it is created automatically.

- Click "Execute export" icon of the application considered to be migration target.
- Migration file is output to the output destination after the process is complete.

Import an application from migration file (Import application)

Step 1 : Display migration file input (import) screen of application information

*The following procedure is described from the screen after login to intra-mart Accel Platform .

- Move to "Forma Management Page" -> "Application migration" -> "Application information import" from the menu.
- "Import application information" screen is displayed.

Step 2 : Import migration file of application information

- Specify the storage location of migration file (import file).
 - Set to "Local" in case of uploading from local disk of user executing it.
 - In case of importing from the folder under 'storage' of intra-mart Accel Platform server, set to "Storage" and enter the folder name under 'storage'.
- Enter information of import file and click "Execute import".
- Check "Import process result" and confirm that there is no error. In case of an error (displayed in red color), check the contents and respond as per the requirement.
- Application information is reflected in the execution environment after the process is complete.

If the character code of the server in migration source and migration destination environment differs, the following operations are additionally executed after import.

- The character code of json file generated under 'Storage' folder should be converted into character code similar to the migration destination (import environment).



Note

Even though form and application definition information is overwritten, table setting of application is not overwritten, hence, an error occurs in the creation of table if a table with same name already exists. In such a case, it may be required to update the table setting according to the form contents.

Step 3 : Reset the setting contents that are not reflected in migration file (Post-processing)

Migrate menu setting information of application

Refer **Set menu** for the procedure.

Migrate the data (data of header table/Detail table) which is registered/updated in the application created in IM-FormaDesigner

Refer "TableMaintenance Administrator Guide" for more details on procedure.

- Use "Table Export" function of "TableMaintenance" in migration source environment and output the data of header table/Detail table.
- Use "Table Import" function of "TableMaintenance" in migration destination environment and import the data of header table/Detail table.

Data registered from application/approval screen in application linked with IM-FormaDesigner

- Refer "IM-Workflow Administrator Guide" for management information (Job information, processing status of flow etc.) in IM-Workflow.
- Refer the migration procedure of header table/Detail table mentioned above for the information entered in the form of application created in IM-

FormaDesigner on application / approval screen of IM-Workflow.

Source file of user program set in application

- Source file of user program is out of scope of import/export. In case migration is to be performed, convert the target program to module project and set it in the migration destination.

Output data source definition as migration file (Export data source definition)

Step 1 : Display migration file output (export) screen of data source definition

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Data source definition migration" -> "Data source definition export" from the menu.
- "Export datasource information" screen is displayed.

Step 2 : Output (export) migration file of data source definition

- Select the output destination of migration file.

- When local disk of the user executing it is considered, set "Output destination" to "Download".
- When folder under 'storage' folder of intra-mart Accel Platform server is considered, set "Output destination" to "Storage" and enter the folder name under 'storage'.



Note

If the folder under 'storage' does not exist, it is created automatically.

- Enter the output destination information and click "Execute export".
- Migration file is output to the output destination after the process is complete.

Import data source definition from migration file (Import data source definition)

Step 1 : Display migration file input (import) screen of data source definition

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Data source definition migration" -> "Data source definition import" from the menu.
- "Import datasource information" screen is displayed.

Step 2 : Import migration file of data source definition

- Specify the storage location of migration file (import file).
 - In case of uploading from the local disk of the user executing it, set to "Local".
 - In case of importing from folder under 'storage' folder of intra-mart Accel Platform server, set to "Storage" and enter the folder name under storage.
- Enter information of import file and click "Execute import".
- Check the "Import process result" and confirm that there is no error. In case of an error (displayed in red color), check the contents and respond as per the requirement.
- The application information is reflected in execution environment after the process is complete.

Step 3 : Delete unnecessary data source definition information

- From the imported data source definitions, it is required to delete the data source definition which is not used in application imported by application migration (import).
- If data source definition to be migrated is arranged in the preliminary work before migration, then this work is unnecessary.

Delete shared DB query
Delete tenant DB query

Output numbering rule definition as migration file (Export numbering rule definition)

Step 1 : Display migration file output (export) screen of Table Maintenance

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "TableMaintenance" -> "Table Export" from the menu.
- "Table Export" screen is displayed.

Step 2 : Output (export) migration file of numbering rule definition

- Select the output destination of migration file.

- When local disk of the executing user is to be considered, set "Output destination" to "Download".



Note

If the folder does not exist under 'storage', it is created automatically.

- Select "IMFR_M_AUTO_NO" "IMFR_M_AUTO_NO_LOCALE" from "Select target table", set to "Selected table".
- Set information of migration file and click "Execute export".
- Migration file is output to the output destination after the process is complete.

Import numbering rule definition from migration file (Import numbering rule definition)**Step 1 : Display migration file input (import) screen of numbering rule definition**

- * The following procedure is described from the screen after login to intra-mart Accel Platform.
- ① Move to "TableMaintenance" -> "Table Import" from the menu.
- ② "Table Import" screen is displayed.

Step 2: Import the migration file of Numbering rules definition

- ① Upload the migration file (import file).
 - ② In case of uploading from local disk of executing user
 - ③ Click "Add files...".
 - ④ Select the migration file.
 - ⑤ Click "Start" and upload.
 - ③ In case of importing from folder under 'storage' folder of intra-mart Accel Platform server. * Enter the path and file name of the migration file uploaded in 'storage' in "Storage".
- ④ Enter the information of migration file (import file) and click "Execute import".
- ⑤ When the import process is complete, check the contents as the number of processed data items are displayed in "Import process result".

Step 3 : Initialize current number of numbering rule definition

- ⑥ During the migration of numbering rule definition, the current number is also migrated, but if it is to be initialized after migration, the following procedure should be executed.
 - ⑦ Move to "Forma Management Page" -> "Forma App Make Management" -> "Numbering Rule Definition" from the menu.
 - ⑧ Click  of the imported numbering rule definition.
 - ⑨ Set the "Uncheck for initialization." check current number to OFF and click "Update".
 - ⑩ Current number of numbering rule definition is initialized and numbering is done again from the starting number.

Application migration after operation

The procedure and corresponding method for migration of application after the start of operation is described below.

Procedure for migration of application after the start of operation

- ① In the migration source environment, export ("Export application information") the migration target application.
- ② In the migration destination environment, import ("Import application information") the migration target application and import the file which is exported by the previous procedure.
- ③ If the target application is already registered, a message showing "Failed to create table "OO" "is displayed on the import process result screen. Hence, perform the setting operation in the migration destination environment based on the following support list.

Individual support list of application

After the migration operation of application, support individually with reference to the following list depending on the changed contents before and after the migration of application.

Changed contents	Corresponding method
Addition of items to main form (①)	Click "Update" in "Table setting" and set the data size of the added row.
Deletion of item (①)	The column corresponding to deleted item is not deleted. If the column corresponding to the deleted item is also to be deleted, table should be created again or previous table should be deleted at the migration destination and import should be executed.
Change maximum number of input characters of an item (Change the data size of table : Increase the size)	Click "Change data size" of the corresponding column in table setting and set the data size.
Change maximum number of input characters of an item (Change the data size of table : Decrease the size)	An error occurs if the data already registered in the target column exceeds the data size after change. Table should be created again or previous table should be deleted at the migration destination and import should be executed.
Change Field ID of an item	If Field ID is changed, new column of table corresponding to Field ID after change is added. (If data is registered in a column before change, reflect the data to the column after change using the DB management tool etc.)
Change item having similar Field ID (Change data type)	When the data type of the column related to items having similar Field ID is changed (from string type to date type etc.), table should be created again or table should be deleted previously at the migration destination and import should be executed. (If the data registered already exists, reflect the data after creating / importing again using DB management tool)

Supplement

[1] (①, ②) Form of target screen item should be main form and "Field DB registration" is required.

Use user program in application

The method to set the user program in an created application is described below.

Contents

- User program
- Pre-requisites for using user program
- Operations which can be performed by user program of Validation check
- Operations which can be performed by user program of Pre-processing
- Operations which can be performed by user program of Post-processing
- Function and description of each part of user program list screen
- Function and description of each part of Add user program screen
- Location of user program and the method to describe program path at the time of setting
- Register user program in application
- Change (Update) the settings of the program registered in application
- Delete settings of the program registered in application

User program

When user program is used, input check of complex patterns and independent processes before the display of registration / update / reference screen of application or after registration / update / deletion can be incorporated in the application created in IM-FormaDesigner.

Program can be used by registering in intra-mart Accel Platform as per the requirement such as when input check other than input check of standard screen items is to be executed.



Note

The program to add input check should be executed in "Script development model".
The Pre-processing program and Post-processing program is executed in either "JavaEE development model" or "Script development model".

Refer "IM-FormaDesigner for Accel Platform Programming Guide" for the method to create user program.

Regarding execution timing of user program

- Validation check program : When "Add" (Apply) button in application is clicked
- Pre-processing program - Add : When menu to display registration screen of application is clicked or "Add" button on list screen is clicked
- Pre-processing program - Edit : When "Edit" button on list screen of application is clicked
- Pre-processing program - Reference : When "Reference" on list screen of application is clicked
- Post-processing program - Add : When data entered in registration screen of application is registered normally in header table / Detail table
- Post-processing program - Update : When data entered in update screen of application is updated normally in header table / Detail table
- Post-processing program - Delete : When data for which delete icon on list screen of application is clicked is deleted normally

Pre-requisites for using user program

It is assumed that the following settings are performed for using the user program.

- Validation check or user program to be registered as Pre-processing, Post-processing should be created and can be used on intra-mart Accel Platform
- The information required to incorporate the program to be used in IM-FormaDesigner application should be acquired



Note

In order to use the user program, convert the target program and deploy it in module project.

Operations which can be performed by user program of Validation check

The following operations can be implemented in combination with IM-FormaDesigner application in the user program created as extension of input check.

- Check whether an appropriate value is entered according to the value entered / selected in specific screen item on the form. (Example: Whether the age of person who is set as a protector is appropriate)
- Check whether the value entered in screen item is in a specific format (Example : Format check of telephone number, mail address, etc.)
- Process in which error occurs when a value other than a specific value is selected in the Select from list item. (Example : It is considered as an error if a person sets self as in-charge for input field of list selection)

Operations which can be performed by user program of Pre-processing

- In an application not linked with IM-Workflow, acquire the data from specific database before displaying registration screen and display initially on the form.
- In an application not linked with IM-Workflow, when registered data from list screen is displayed on reference screen, display by acquiring the current date and time from screen item.
- In an application linked with IM-Workflow, edit the value of specific item registered at the time of application and display as initial value of item of the approval screen.

Operations which can be performed by user program of Post-processing

- In an application not linked with IM-Workflow, execution of linkage process to a table for separate system other than **Header table** after register / delete / update from application.
- In an application not linked with IM-Workflow, after the registration from the application, convert the entered data into specific format and output to file.



Note

When Post-processing program is incorporated in application of IM-FormaDesigner linked with IM-Workflow and when it is to be executed according to the timing of IM-Workflow process, use user program incorporated function of IM-Workflow .

Function and description of each part of user program list screen

The contents of user program list screen are as follows.

The screenshot shows the 'User program list' interface. At the top, there are tabs for 'Application history information', 'Form list', 'Form transition list', and 'User program list'. The 'User program list' tab is selected. Below the tabs, there is a list of program types with numbered labels (1) through (9) next to them:

- (1) Validation check program + Add
- (2) Preprocessing program -
- (3) Preprocessing program - Add + Add
- (4) Preprocessing program - Edit + Add
- (5) Preprocessing program - Reference + Add
- (6) Post-processing program -
- (7) Post-processing program - Add + Add
- (8) Post-processing program - Update + Add
- (9) Post-processing program - Delete + Add

Each item has an 'Edit' button and fields for 'Program name' and 'Program remarks'.

Validation check program

1. Validation check program

Set user program to be used as input check of IM-FormaDesigner application.

- Add

Display registration screen of user program for input check.

- Edit

Click to change the settings of the registered user program.

- Program name

Display the registered user program name.

- Program remarks

Display the contents of 'Remarks' of the registered user program.

Pre-processing program

2. Change Pre-processing program display

Change Display / hide of registered contents of Pre-processing program.

3. Pre-processing program - Add

Set the user program to be executed before displaying the registration screen of IM-FormaDesigner application.

- Add

Display the registration screen of the user program to be executed before displaying registration screen.

- Edit

Click to change the settings of the registered user program.

- Program name

Display the registered user program name.

- Program remarks

Display the contents of 'Remarks' of the registered user program.

4. Pre-processing program - Edit

Set the user program to be executed before displaying edit screen of IM-FormaDesigner application.

- Add
Display the registration screen of the user program to be executed before displaying edit screen.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

5. Pre-processing program - Reference

Set the user program to be executed before displaying reference screen of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed before displaying reference screen.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

Post-processing program

6. Switch the display of Post-processing program

Switch display/hide of registration contents of Post-processing program.

7. Post-processing program - Add

Set the user program to be executed after registration process of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed after registration process.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

8. Post-processing program - Update

Set the user program to be executed after update process of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed after update process.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

9. Post-processing program - Delete

Set the user program to be executed after deletion process of IM-FormaDesigner application.

- Add
Display registration screen of the user program to be executed after deletion process.
- Edit
Click to change the settings of the registered user program.
- Program name
Display the registered user program name.
- Program remarks
Display the contents of 'Remarks' of the registered user program.

Function and description of each part of Add user program screen

The contents of Add user program screen are as follows.

The screenshot shows the 'Add user program' screen. At the top, there is a header bar with a back arrow and the title 'Add user program'. Below the header, there is a table with the following data:

Application id	sample_app_equipment
Application name	Sample Equipment management
Application history number	1
User program type	Post-processing
Execution process type	Add

Below this table is a large form area divided into sections:

- (1) User program information:** Contains fields for 'Program type' (dropdown menu) and 'Program path' (text input).
- (2) Program Locale unit:** Contains three language sections: English, Japanese, and Chinese. Each section has fields for 'Program name' (text input) and 'Program remarks' (text area).
- (3) Copy:** A group of checkboxes with the following options:
 - Copy to the post-processing program for update.
 - Copy to the post-processing program for delete.
- Add:** A button at the bottom right of the form.

1. User program information

① Program type

In case of Validation check, "Script development model" can be used, and in case of Pre-processing/ Post-processing, "Script development model" and "JavaEE development model" can be used.

② Program path

Enter a specific path according to "Location of user program and the method to describe program path at the time of setting" described later.

2. Program (Locale unit)

Enter the information required for each locale set in the application.

③ Program name

Describe the name of the program for each locale set in the application.

④ Program remarks

Describe the description etc. of the program for each locale set in the application.

3. Copy

It is the item which can be set at the time of register / update of Pre-processing program (register / edit / refer) and Post-processing program (register / update / delete).

The setting contents are copied if the check is set to ON when the contents registered in specific Pre-processing program and Post-processing program are to be used as program at the time of other process.

Location of user program and the method to describe program path at the time of setting

Though "Script development model" and "JavaEE development model" can be used in user program, the location of program, and the description method at the time of setting differ according to development model.

The location for each development model and the description method at the time of setting to application is described below.

⑤ In case of Script development model

- ⑥ Location of program : Place the program file under "Storage directory of Script development model program".
- ⑦ The description method : Describe the path as route of above mentioned directory.

"Example"

Item	File path
Storage directory of script development model program	<%RESIN_HOME%>/webapps/<directory of the same name as WAR file>/WEB-INF/jsp/src

Item	File path
Location of program	src/myprogram/program01.js
Program path described at the time of setting	myprogram/program01
In case of JavaEE development model	
<ul style="list-style-type: none"> □ Location of program : Place the program file (jar file or class file) with the class path. □ Description method : Describe "Package name.Class name". 	
"Example"	
Item	File path
Package name	jp.co.mypackage
Class name	ProgramClass
Program path described at the time of setting	jp.co.mypackage.ProgramClass

Register user program in application

Step 1 : Display user program management screen

- Click "Form setting" tab of application basic information screen.
- Since application history list is displayed, click "Edit" icon of the target history row.
- Click "User program list" tab of "Application history information".
- User program list is displayed.

Step 2 : Register user program

Set user program which executes input check

- Click "Add" next to "Validation check program".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Set the user program to be executed before displaying registration screen

- Click "Add" next to "Pre-processing program - Add".
- Enter the required items.
- Settings are complete when "Add" is clicked after the required items are entered.

Set the user program to be executed before displaying Update screen

- Click "Add" next to "Pre-processing program - Edit".
- Enter the required items.
- Settings are complete when "Add" is clicked after the required items are entered.

Set the user program to be executed before displaying Refer screen

- Click "Add" next to "Pre-processing program - Reference".
- Enter the required items.
- Settings are complete when "Add" is clicked after the required items are entered.

Set user program to be executed after registration process

- Click "Add" next to the "Post-processing program - Add".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Set user program to be executed after update process

- Click "Add" next to "Post-processing program - Update".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Set user program to be executed after deletion process

- Click "Add" next to "Post-processing program - Delete".
- Enter the required items.
- The settings are complete when "Add" is clicked after entering the required information.

Change (Update) the settings of the program registered in application

Step 1 : Display user program management screen

- Click "Form setting" tab of application basic information screen.
- Since application history list is displayed, click "Edit" icon of the target history row.
- Click "User program list" tab of "Application history information".
- User program list is displayed.

Step 2 : Change settings of registered user program

- Click "Edit" at the left of target program name from the registered program.
- Edit the items to be changed.
- Changed contents of the settings are reflected when "Update" is clicked after editing the target items.

Delete settings of the program registered in application**Step 1 : Display user program management screen**

- Click "Form setting" tab of application basic information screen.
- Since application history list is displayed, click "Edit" icon of target history row.
- Click "User program list" tab of "Application history information".
- User program list is displayed.

Step 2 : Delete settings of registered user program

- Click "Edit" at the left of target program name from the registered program.
- Click "Delete" of "User program information".
- The setting information of user program is deleted from the application when "OK" on the confirmation dialog is clicked.

**Note**

Note that this deletion process is only for deleting the application created in IM-FormaDesigner and the setting information of user program. User program is not deleted.

Use numbering function

Registration of numbering rule definition and usage of screen item "Numbering" on the form is described below.

Contents

- **Numbering rule definition**
- **Function and description of each part of numbering rule definition screen**
- **Function and description of each part of property of screen item "Numbering"**
- **Registration of numbering rule definition, usage in application**
- **Initialize current number of numbering rule definition**

Numbering rule definition

This is a function to enter a unique number in the application created in IM-FormaDesigner.

After setting the numbering method previously as numbering rule definition, use it as "Numbering" item on the application form.

Function and description of each part of numbering rule definition screen

The contents of numbering rule definition screen are as follows.

Add numbering rule definition

Add numbering rule definition

(1) Numbering case	<input type="text"/>
(2) Prefix	<input type="text"/>
(3) Starting number *	<input type="text"/>
(4) Display length *	<input type="text"/>
(5) Incremental value *	<input type="text"/>
(6) Suffix	<input type="text"/>
English	
(7) Numbering Rule name *	<input type="text"/>
Japanese	
Numbering Rule name *	<input type="text"/>
Chinese	
Numbering Rule name *	<input type="text"/>
Add	

1. Numbering case

Displays the preview based on contents registered as numbering rule definition.

2. Prefix

The characters to be added before the numbered (indexed) number can be set up to 32.

3. Starting number

Sets the starting number of numbering based on the setting contents of numbering rule definition.

In the update screen of numbering rule definition, displays the "Current number" set at the time of subsequent numbering.

4. Display length

In the numbering rule definition that is set, set the number of digits in the numerical value varying as "Number" within 16 digits.

If Prefix or current number is less than number of digits displayed, add "0".

5. Incremental value

Set the value to be added to Prefix / current number at the time of numbering once.

6. Suffix

The characters to be added after the numbered (indexed) number can be set up to 32.

7. Numbering Rule name

Set a name which can be uniquely identified as numbering rule definition name in each locale.

Function and description of each part of property of screen item "Numbering"

The contents of property of screen item "Numbering" are as follows.

Properties

Basic configuration

Label	<input type="text"/> Numbering number
(1) Numbering Rule Definition name *	<input type="text"/> Automatic numbering by system
(2) Unique No. setting method *	<input type="text"/> For every registration process

1. Numbering Rule definition name

- Set the numbering rule definition to be used from the registered numbering rule definitions.
- If the numbering rule definition is not set, set auto numbering (auto numbered value in system) by the system.
- If numbering rule definition is set by "Automatic numbering by system", use JS API Identifier.get(), and return a unique value on the system.

2. Unique No. setting method

- Set the timing for numbering.
- For every screen access

Perform numbering when the screen is displayed.

However, there is no new numbering if it is displayed again in temporary saved status.

- For every registration process

Perform numbering when registration (application) process is executed on the screen.

Nothing is displayed before registration (application) to determine the number when the process has ended normally.

Registration of numbering rule definition, usage in application

Step 1 : Display numbering rule definition registration screen

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Forma App Make Management" -> "Numbering Rule Definition" from the menu.
- Click "Add" icon on the top left of "Numbering rule definition list".

Step 2 : Create new numbering rule definition

- After entering the required information, click "Add" to register the numbering rule definition.

Step 3 : Set "Numbering" on application form

- Display form designer screen of form on which screen item "Numbering" is to be set from the application list.
- Set "Numbering" on the form on the form designer screen.
- Open 'Properties' of screen item and set the numbering rule definition created previously in numbering rule definition.
- Complete the procedure by saving the form.

Initialize current number of numbering rule definition

Initialize the current number of the set numbering rule definition by the following procedure.

Step 1 : Display numbering rule definition update screen

*The following procedure is described from the screen after login to intra-mart Accel Platform.

- Move to "Forma Management Page" -> "Forma App Make Management" -> "Numbering Rule Definition" from the menu.
- Click "Edit" icon of numbering rule definition for the current number to be initialized from "Numbering rule definition list".

Step 2 : Initialize index number

- Turn OFF the check to the right of current number and enter the starting number after initialization.
- Confirm that there are no other items that need to be changed and click "Update".
- The procedure is complete if update could be done normally.

Output form in PDF

The method to output form of IM-FormaDesigner as a PDF file is described below.

Contents

- **PDF output function**
- **Contents that can be output as PDF file**
- **Setting method to output PDF file from list display screen**
- **Setting method to output PDF file by screen item "Button (Event)"**
- **Method to check output image of PDF file**

PDF output function

It is possible to download as PDF file from the IM-FormaDesigner application.

PDF output can be executed by screen item "Button (event)" set on list display screen and reference screen of the application.

- When PDF file is output from the list display screen, it is necessary to grant reference privilege to the executing user for the target application.

Contents that can be output as PDF file

The following contents can be output as PDF file from IM-FormaDesigner application.

- Reference screen set in form transition "Reference transition".
- In case of setting such that transition between multiple forms can be done on the form screen, only the form displayed first can be output as PDF.
- When the subsequent transited form is to be output as PDF, set "Button (event)" of screen item on that form and set so as to output PDF in a script.

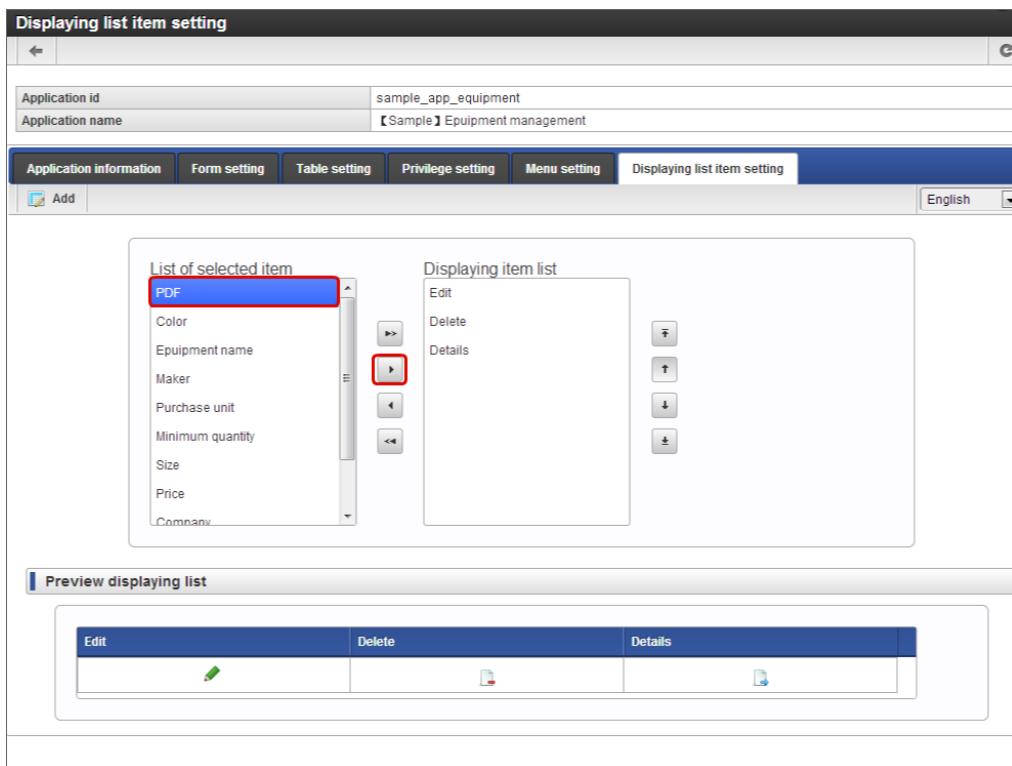
Note that the following are not output to PDF file.

- Screen item for which "Display" - "Refer" is set to "Non display" in "Display style" property of screen item.
- Screen items where display image is in "Button" format ("Button (Register)" "Button (Next)" "Button (Back)" "Button (Back to list)" "Button (Temporary save)" "Button (Event)") are relevant in the standard screen items.
- When image file of gif format is to be referred in screen item "Image" (if it is set, then only the frame of that range is output.)

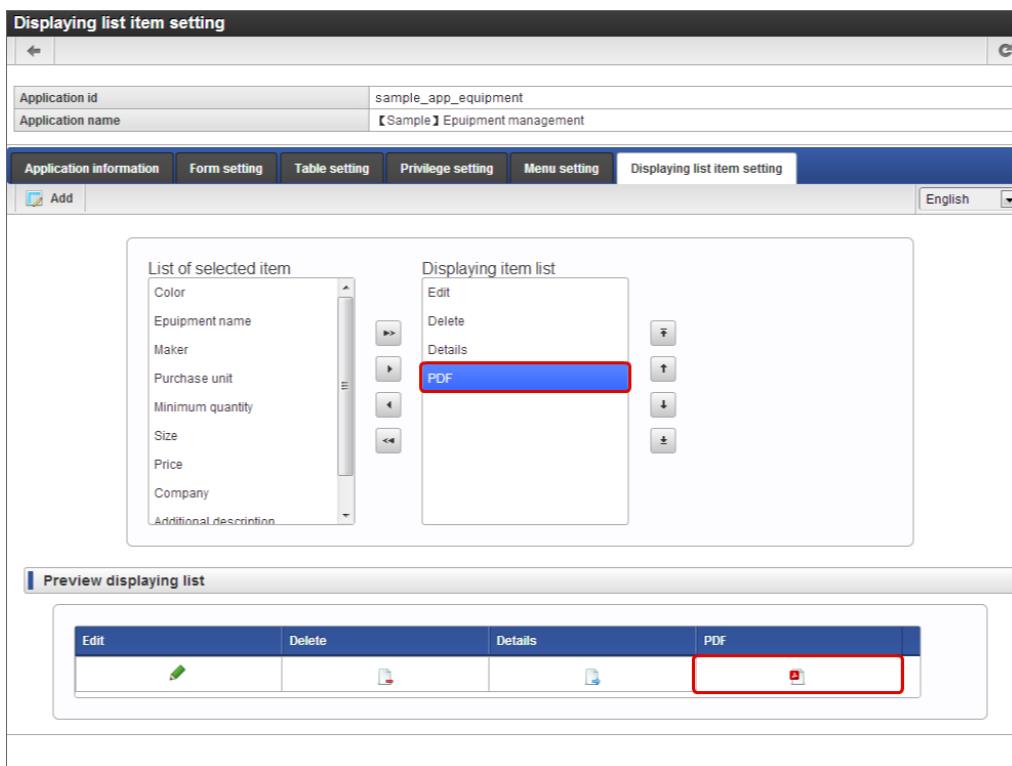
Setting method to output PDF file from list display screen

Setting method

- Add "PDF" in the display item list by "Displaying list item setting" of application.



- If it is set correctly, column of "PDF" icon is displayed as follows.

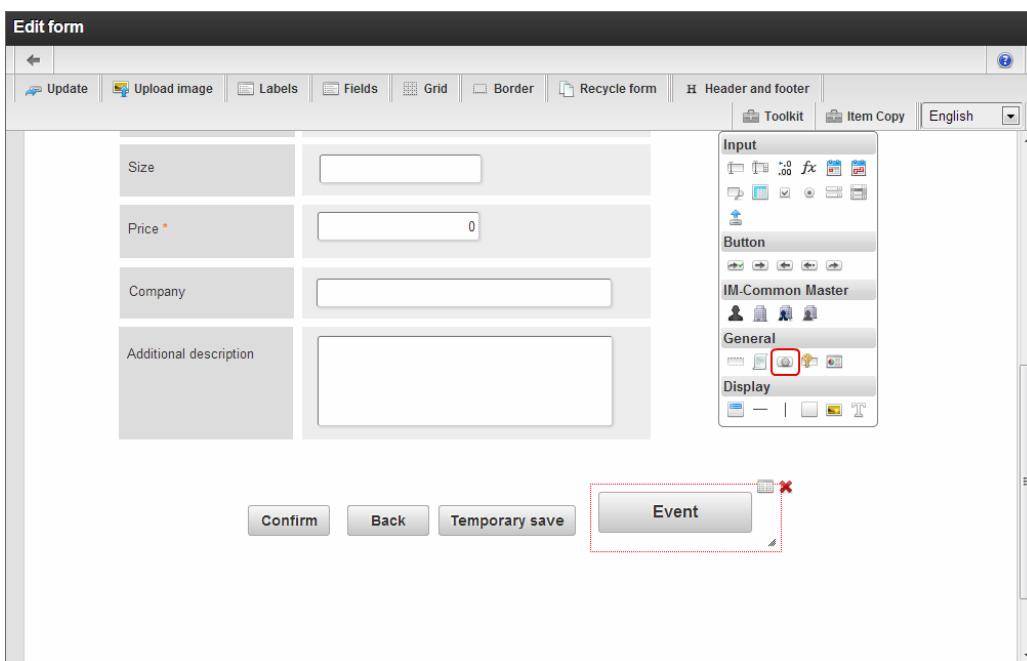


- When PDF icon of list display screen is clicked, PDF file is generated and downloading starts.

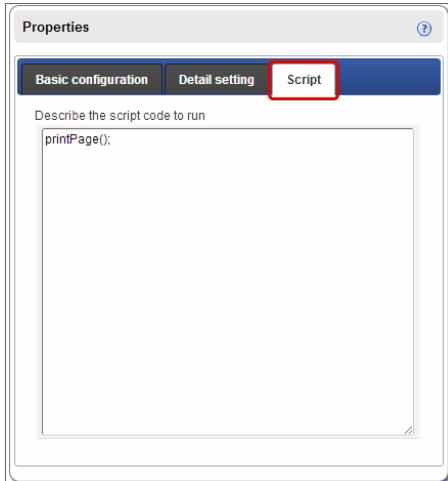
Setting method to output PDF file by screen item "Button (Event)"

Setting method

- When displayed as reference screen, set the screen item "Button (Event)" on form in which PDF file is to be output.



- Describe "printPage();" in "Script" property of screen item and save the form.



- Display the screen where button (event) is set as reference screen. When the button is clicked, PDF file is generated and downloading starts.

**Note**

In case of PDF output using screen item "Button (event)", set that button only on the reference screen.
 PDF output process is not executed normally if the button is set on other than reference screen.
 If printing process is executed from the registration screen, registration data ID is not defined and hence an error occurs in the PDF output process.
 If printing process is executed from edit screen, update is not executed even if it is executed after the PDF output process.

Method to check output image of PDF file

- Even though the PDF output function uses "wkhtmltopdf" to generate PDF file, rendering engine used at the time of file generation uses Webkit engine used in Chrome and Safari.
 Hence, the image at the time of PDF output is identical to the image when Chrome and Safari are used.
 When PDF output image is to be checked while creating the form, check it using Google Chrome or Safari.

Application management of IM-FormaDesigner**Perform advanced settings of IM-FormaDesigner**

Contents
<ul style="list-style-type: none"> ■ Perform detailed settings of IM-FormaDesigner ■ Detailed configuration file of IM-FormaDesigner (forma-config.xml) ■ Changes from IM-FormaDesigner version 7.2 ■ Setting items of detailed configuration file of IM-FormaDesigner <ul style="list-style-type: none"> ■ Change the display settings per page of list display(page_count/page_pattern) ■ Set the table(Header table/Detail table) to store application data

- Enable the items which are not set in IM-Workflow linkage setting application
- Set the maximum number of input characters for label
- Set the font type which can be used by screen item
- Set the attribute of screen item
- Set the screen items to be displayed in toolkit
- Set the type of image file which can be used in form
- Set link destination of IM-FormaDesigner for Accel Platform designer help and screen item help
- Settings of base URL of PDF output request destination server

Perform detailed settings of IM-FormaDesigner

In IM-FormaDesigner, settings can be changed based on the operations by the application creation manager.

The setting contents and procedure of configuration file is described below.

Further, it is necessary to restart the server to reflect the changes of configuration file.

Detailed configuration file of IM-FormaDesigner (forma-config.xml)

The following settings can be changed by changing the detailed configuration file of IM-FormaDesigner.

- Number of displays per "List display" page.
- Data type setting at the time of creating header table of application.
- Display availability of application settings(Menu setting, Displaying list item setting) tab in case of application for which IM-Workflowlinkage information is created.
- Setting maximum number of input characters of item label.
- Format setting of various screen items.

Changes from IM-FormaDesigner version 7.2

- The contents of configuration file are changed from IM-FormaDesigner version 7.2.
 - Configuration file is integrated with "forma-config.xml".
 - "forma.ini" is deleted with the integration of configuration file.

Setting items of detailed configuration file of IM-FormaDesigner

Change the display settings per page of list display(page_count/page_pattern)

Set the number of data items to be displayed in application list and display count change list.

Default value of number of data items to be displayed in list is "15" and default value of display count change list is "15,30,45,60".

```
<listdisplay-setting>
<!-- Number of displays in a page. Specify the number of data items to be displayed on 1 page. -->
<page_count>15</page_count>
<!-- Specify the count list for changing the number of displays by comma delimiter. -->
<page_pattern>15,30,45,60</page_pattern>
</listdisplay-setting>
```

Set the table(Header table/Detail table) to store application data

Set the data type and maximum number of characters of table name/item name(Column name) while creating the table from IM-FormaDesigner, application.

```
<table-setting>
<!-- Data type String -->
<data_type_string>varchar</data_type_string>
<!-- Data type Numerical value -->
<data_type_number>decimal</data_type_number>
<!-- Data type Date -->
<data_type_date>date</data_type_date>
<!-- Data type Timestamp -->
<data_type_timestamp>timestamp</data_type_timestamp>
<!-- Maximum number of characters for table name -->
<table_name_max_length>30</table_name_max_length>
<!-- Maximum number of characters for column name -->
<column_name_max_length>30</column_name_max_length>
</table-setting>
```

String(data_type_string)

Set the data type of table items that store the string data(String, multiline string in screen items).

Default value is "varchar".

Numerical value(data_type_number)

Set the data type of the table items that store numerical value data(Number in screen items).

Default value is "decimal".

Date(data_type_date)

Set the data type of the table items that store the date data(Date, Term in screen items).

Default value is "date".

Time(data_type_timestamp)

Set the data type of the table items that store the time data(Date, Term in screen items).

Default value is "timestamp".

Maximum number of characters for table name(table_name_max_length)

In the maximum number of characters for table name, set the maximum number of characters that can be set for table name of header table/Detail table.
Default value is "30".

Maximum number of characters for column name(column_name_max_length)

In the maximum number of characters for column name, set the maximum number of characters that can be set for item name(Column name) of header table/Detail table.
Default value is "30".

Enable the items which are not set in IM-Workflow linkage setting application

Set display/hide of "Menu setting", "Displaying list item setting" and "Privilege setting" which exist on the application management screen of the application to be used by linking with IM-Workflow.

Default value is 'hide'(false) for all Menu setting(show_menu_tab), Displaying list item setting(show_list_item_view_tab) and Privilege setting(show_auth_setting_tab).

```
<imw-setting>
<!-- When application type is im-workflow, true when menu settings tab is displayed and false when it is hidden -->
<!-- Set true/false. -->
<show_menu_tab>false</show_menu_tab>
<!-- When application type is im-workflow, true when list display settings tab is displayed and false when it is hidden -->
<!-- Set true/false. -->
<show_list_item_disp_tab>false</show_list_item_disp_tab>
<!-- When application type is im-workflow, true when authorization settings tab is displayed and false when it is hidden -->
<!-- Set true/false. -->
<show_auth_setting_tab>false</show_auth_setting_tab>
</imw-setting>
```

Set the maximum number of input characters for label

```
<basis-setting>
<!-- Maximum number of input characters of item label -->
<item_label_max>10000</item_label_max>
<!-- Maximum number of input characters of screen item "Label"-->
<label_item_max>10000</label_item_max>
</basis-setting>
```

Change maximum number of characters for label of screen items(item_label_max)

Set the maximum number of characters that can be entered in label item of various items.

Default value is "10000".

Change maximum number of characters for screen item "Label"(label_item_max)

Set the maximum number of characters that can be set in "Label" of screen item.

Default value is "10000".

Set the font type which can be used by screen item

```

<font-setting>
<fonts>
<font-name>Gothic</font-name>
<font-values>MS P Gothic</font-values>
<font-values>Heisei Kaku Gothic</font-values>
<font-values>sans-serif</font-values>
</fonts>
<fonts>
<font-name>Mincho</font-name>
<font-values>MS P Mincho</font-values>
<font-values>Heisei Mincho</font-values>
<font-values>serif</font-values>
</fonts>
<fonts>
<font-name>Andale Mono</font-name>
<font-values>andale mono</font-values>
<font-values>times</font-values>
</fonts>
<fonts>
<font-name>Arial</font-name>
<font-values>arial</font-values>
<font-values>helvetica</font-values>
<font-values>sans-serif</font-values>
</fonts>
<fonts>
<font-name>Arial Black</font-name>
<font-values>arial black</font-values>
<font-values>avant garde</font-values>
</fonts>
<fonts>
<font-name>Book Antiqua</font-name>
<font-values>book antiqua</font-values>
<font-values>palatino</font-values>
</fonts>
<fonts>
<font-name>Comic Sans MS</font-name>
<font-values>comic sans ms</font-values>
<font-values>sans-serif</font-values>
</fonts>
<fonts>
<font-name>Courier New</font-name>
<font-values>courier new</font-values>
<font-values>courier</font-values>
</fonts>
<fonts>
<font-name>Georgia</font-name>
<font-values>georgia</font-values>
<font-values>palatino</font-values>
</fonts>
<fonts>
<font-name>Helvetica</font-name>
<font-values>helvetica</font-values>
</fonts>
<fonts>
<font-name>Impact</font-name>
<font-values>impact</font-values>
<font-values>chicago</font-values>
</fonts>
<fonts>
<font-name>Tahoma</font-name>
<font-values>tahoma</font-values>
<font-values>arial</font-values>
<font-values>helvetica</font-values>
<font-values>sans-serif</font-values>
</fonts>
<fonts>
<font-name>Times New Roman</font-name>
<font-values>times new roman</font-values>
<font-values>times</font-values>
</fonts>
<fonts>
<font-name>Trebuchet MS</font-name>
<font-values>trebuchet ms</font-values>
<font-values>geneva</font-values>
</fonts>
<fonts>
<font-name>Verdana</font-name>
<font-values>verdana</font-values>
<font-values>geneva</font-values>
</fonts>
</font-setting>
<auto-no-setting>
<retry-max>15</retry-max>
</auto-no-setting>

```

Set the font which can be used by screen item(fonts)

Set the font which can be set by screen items.
The set font can be used in the following.

- Screen item "Label"
- Label style
- Field style

Set the attribute of screen item

```
<item-setting>
<date-format>yyyy/MM/dd</date-format>
<date-format>yyyy/M/d</date-format>
<date-format>yyyy-MM-dd</date-format>
<date-format>yyy-M-d</date-format>
<date-format>dd/MM/yyyy</date-format>
<date-format>MM/dd/yyyy</date-format>
<table-row-limit>50</table-row-limit>
<table-col-limit>30</table-col-limit>
<imw-stamp-list-col-limit>30</imw-stamp-list-col-limit>
<listbox-item-limit>30</listbox-item-limit>
<radio-item-limit>30</radio-item-limit>
<checkbox-item-limit>30</checkbox-item-limit>
<selectbox-item-limit>30</selectbox-item-limit>
<exclude-itemselect>product_72_checkbox</exclude-itemselect>
<exclude-itemselect>product_72_listbox</exclude-itemselect>
<exclude-itemselect>product_72_radio</exclude-itemselect>
<exclude-itemselect>product_72_selectbox</exclude-itemselect>
<exclude-itemselect>product_72_userSelect</exclude-itemselect>
<exclude-itemselect>product_72_departmentSelect</exclude-itemselect>
<exclude-itemselect>product_72_departmentPostSelect</exclude-itemselect>
<exclude-itemselect>product_72_affiliationSelect</exclude-itemselect>
<exclude-itemselect>product_72_formaAutoNo</exclude-itemselect>
</item-setting>
```

Change the display format of date items(Date, Term, etc.)(date-format)

Define the date format which can be selected by the items for which date is specified(E.g: Date item, Term item and function item). When date format is to be added, describe the date format in <date-format> element and add item settings element.

Change upper limit of the number of rows of Detail table(table-row-limit)

Define the upper limit of the number of rows of Detail table items.
Default value is "50".

Change upper limit of number of columns of Detail table(table-col-limit)

Define the upper limit of number of columns of Detail table items.
Default value is "30".

Change upper limit of number of columns of display stamp(imw-stamp-list-col-limit)

Define the upper limit of the number of columns of display stamp items.
Default value is "30".

Change upper limit of number of items of list box(listbox-item-limit)

Define the upper limit of number of list box items.
Default value is "30".

Change upper limit of number of items of radio button(radio-item-limit)

Define the upper limit of the number of radio button items.
Default value is "30".

Change upper limit of number of items of checkbox(checkbox-item-limit)

Define the upper limit of the number of checkbox items.
Default value is "30".

Change upper limit of number of items of selectbox(selectbox-item-limit)

Define the upper limit of the number of selectbox items.
Default value is "30".

Set the screen item excluded from List display setting items (exclude-itemselect)

Set the screen item excluded from List display setting item.
Initial value is "Function, Checkbox, List box, Radio button, Select box, Select user, Select organization, Select organization/post, Select affiliation, Numbering".

Set the screen items to be displayed in toolkit

```
<toolkit-setting>
<define-item>
<item-path>forma/designer/types/product/72/textbox</item-path>
<item-path>forma/designer/types/product/72/textarea</item-path>
```

```

<item-path>forma/designer/types/product/72/number</item-path>
<item-path>forma/designer/types/product/72/func</item-path>
<item-path>forma/designer/types/product/72/calendar</item-path>
<item-path>forma/designer/types/product/72/terms</item-path>
<item-path>forma/designer/types/product/72/checkbox</item-path>
<item-path>forma/designer/types/product/72/radio</item-path>
<item-path>forma/designer/types/product/72/checkbox</item-path>
<item-path>forma/designer/types/product/72/listbox</item-path>
<item-path>forma/designer/types/product/72/hidden</item-path>
<item-path>forma/designer/types/product/72/itemSelect</item-path>
<item-path>forma/designer/types/product/72/label</item-path>
<item-path>forma/designer/types/product/72/script</item-path>
<item-path>forma/designer/types/product/72/image</item-path>
<item-path>forma/designer/types/product/72/shape</item-path>
<item-path>forma/designer/types/product/72/horizontalrule</item-path>
<item-path>forma/designer/types/product/72/verticalline</item-path>
<item-path>forma/designer/types/product/72/table</item-path>
<item-path>forma/designer/types/product/72/fileupload</item-path>
<item-path>forma/designer/types/product/72/userSelect</item-path>
<item-path>forma/designer/types/product/72/departmentSelect</item-path>
<item-path>forma/designer/types/product/72/departmentPostSelect</item-path>
<item-path>forma/designer/types/product/72/affiliationSelect</item-path>
<item-path>forma/designer/types/product/72/imwMatterData</item-path>
<item-path>forma/designer/types/product/72/imwMatterFile</item-path>
<item-path>forma/designer/types/product/72/imwMatterImage</item-path>
<item-path>forma/designer/types/product/72/imwMatterHistory</item-path>
<item-path>forma/designer/types/product/72/imwConfirmHistory</item-path>
<item-path>forma/designer/types/product/72/imwStampList</item-path>
<item-path>forma/designer/types/product/80/header</item-path>
<item-path>forma/designer/types/product/80/registerButton</item-path>
<item-path>forma/designer/types/product/80/returnButton</item-path>
<item-path>forma/designer/types/product/80/nextButton</item-path>
<item-path>forma/designer/types/product/80/previousButton</item-path>
<item-path>forma/designer/types/product/80/tempButton</item-path>
<item-path>forma/designer/types/product/80/eventButton</item-path>
<item-path>forma/designer/types/product/72/formaAutoNo</item-path>
</define-item>
<default-grouping>
<group>
<group-id>input</group-id>
<item-id>product_72_textbox</item-id>
<item-id>product_72_textarea</item-id>
<item-id>product_72_number</item-id>
<item-id>product_72_func</item-id>
<item-id>product_72_calendar</item-id>
<item-id>product_72_terms</item-id>
<item-id>product_72_itemSelect</item-id>
<item-id>product_72_table</item-id>
<item-id>product_72_checkbox</item-id>
<item-id>product_72_radio</item-id>
<item-id>product_72_selectbox</item-id>
<item-id>product_72_listbox</item-id>
<item-id>product_72_fileupload</item-id>
</group>
<group>
<group-id>button</group-id>
<item-id>product_80_registerButton</item-id>
<item-id>product_80_nextButton</item-id>
<item-id>product_80_previousButton</item-id>
<item-id>product_80_returnButton</item-id>
<item-id>product_80_tempButton</item-id>
</group>
<group>
<group-id>master</group-id>
<item-id>product_72_userSelect</item-id>
<item-id>product_72_departmentSelect</item-id>
<item-id>product_72_departmentPostSelect</item-id>
<item-id>product_72_affiliationSelect</item-id>
</group>
<group application-type="imw">
<group-id>workflow</group-id>
<item-id>product_72_imwMatterData</item-id>
<item-id>product_72_imwMatterFile</item-id>
<item-id>product_72_imwMatterImage</item-id>
<item-id>product_72_imwMatterHistory</item-id>
<item-id>product_72_imwConfirmHistory</item-id>
<item-id>product_72_imwStampList</item-id>
</group>
<group>
<group-id>general</group-id>
<item-id>product_72_hidden</item-id>
<item-id>product_72_script</item-id>
<item-id>product_80_eventButton</item-id>
<item-id>product_72_formaAutoNo</item-id>
</group>
<group>
<group-id>display</group-id>
<item-id>product_80_header</item-id>
<item-id>product_72_horizontalrule</item-id>
<item-id>product_72_verticalline</item-id>
<item-id>product_72_shape</item-id>

```

```
<item-id>product_72_image</item-id>
<item-id>product_72_label</item-id>
</group>
</default-grouping>
<page-path>forma/designer/form_designer_toolkit</page-path>
</toolkit-setting>
```

Set such that specific screen items cannot be used from toolkit

When specific screen items are restricted in such a way that it cannot be used from toolkit, comment out the corresponding row.

- E.g: Method that restricts the script, button(Event)

```
<group>
<group-id>general</group-id>
<item-id>product_72_hidden</item-id>
<!-- <item-id>product_72_script</item-id> -->
<!-- <item-id>product_80_eventButton</item-id> -->
<item-id>product_72_formaAutoNo</item-id>
</group>
```

Set the type of image file which can be used in form

```
<image-upload-setting>
<acceptFileType>gif</acceptFileType>
<acceptFileType>jpeg</acceptFileType>
<acceptFileType>png</acceptFileType>
</image-upload-setting>
```

Set the extension of file that can be uploaded as image file(acceptFileType)

Set the extension of file that can be uploaded as image file.

There are 3 default types, "gif", "jpeg" and "png".

Set link destination of IM-FormaDesigner for Accel Platform designer help and screen item help

```
<help-setting>
<itemHelpUrl>http://www.intra-mart.jp/download/product/forma/80/forma-designer-help/item_help/</itemHelpUrl>
<designerHelpUrl>http://www.intra-mart.jp/download/product/forma/80/forma-designer-help/designer_help/index.html</designerHelpUrl>
</help-setting>
```

Settings of base URL of PDF output request destination server

Set base URL of Request destination server when using PDF output function.

Setting contents are used at the time of PDF output screen request from wkhtmltopdf.

- Configuration file is <%RESIN_HOME%/webapps/{context name}/WEB-INF/conf/forma-pdf-config.xml>.

```
<base-url>http://127.0.0.1:8080/imart</base-url>
```



Note

- Value of <base-url> of <%RESIN_HOME%/webapps/{context name}/WEB-INF/conf/server-context-config.xml> is set when this item is not set. (Context name is "imart" by default.)
- Specify base URL that can be accessed in HTTP server of Resin when Resin is used in AP server.
- In the environment where load is distributed by load balancer or in the environment where Integrated Windows authentication is used, specify local host in the host of base-url of forma-pdf-config.xml.

Specifications in case of operations of multiple companies in IM-FormaDesigner

The specifications of IM-FormaDesigner when multiple companies are set in 1 tenant in intra-mart Accel Platform are as given below.

IM-FormaDesignerCommon specifications

Company which can be searched as administration company

Search function of administration company setting of each function of IM-FormaDesigner is executed on the basis of authorization setting information of IM common master company.

Note that information of organizations and users related to the company can be referred if reference privilege of company is granted since reference privilege of IM common master company is the information which can be used by entire intra-mart Accel Platform.

Extent of the impact of administration company setting

- According to the administration company setting, the scope to restrict the application/query which can be referred/executed is a function under "Application creation".
 - According to the application administration company setting, the functions which can be executed are restricted to the user having "application creator" role.
 - According to the application administration company setting, the functions which can be executed are not restricted to the user having "application creation manager" role.
- The execution of application (List display, registration screen, etc) created in IM-FormaDesigner is restricted on the basis of "Authorization settings"

and "Menu settings" of each application.

Scope of application ID

- "Application ID" to identify the application should be unique in tenant.
 - An error message is displayed if the application and application ID which cannot be referred depending on the application administration company setting are duplicated when the user having "application creator" role creates an application.

Application management function

Limitation of application management by the company

"Application list" to create the application is restricted on the basis of "Application administration company setting".

Details: ***Set application administration company information***

Application administration company setting

- The settings screen of application is displayed from "Application list" according to menu group of calling source as follows.
 - When "Application list" under "Forma Management Page" menu is executed, "Application administration company setting" tab is displayed.
 - When "Application list" under "Create Forma Apps" menu is executed, "Application administration company setting" tab is not displayed.

Therefore, "Application administration company setting" can be executed only by the user having "application creation manager" role.

Default value of application administration company setting

- The default value of application administration company setting is displayed as per the following according to the main member information of the user who created the corresponding application.
 - User has main member information -> Application administration company setting: Yes, Company: Company of main member organization of user
 - User does not have main member information -> Application administration company setting: No, Company: No

Application administration company setting at the time of migration (Import/Export)

- In case of application migration between different versions (version 7.2->IM-FormaDesigner for Accel Platform), "Application administration company setting" are set as "NO settings".
- In case of application migration between similar versions (IM-FormaDesigner for Accel Platform->IM-FormaDesigner for Accel Platform), "Application administration company setting" is set as migration target.

Application list display (Scope of application which can perform Change/Delete)

- The display (Judgment of change/delete) for "Application list" of application creation changes according to the following conditions.
 - Application of "Application administration company setting: No" is displayed irrespective of the affiliated company. (Application can be changed/deleted.)
 - Application of "Application administration company setting: Yes" is displayed as per the following according to the affiliated company.
 - It is displayed when the company of main member organization of user is set to application administration company. (Application can be changed/deleted.)
 - It is not displayed when the company of main member organization of user is not set to application administration company. (Application cannot be changed/deleted.)

"Recycle form" of form designer (Search form)

- In the form search of "Recycle form" of form designer screen of IM-FormaDesigner, the search target is determined by the following conditions.
 - Form of application of "Application administration company setting: No" is displayed irrespective of the affiliated company. (Application can be changed/deleted.)
 - Form of application of "Application administration company setting: Yes" is displayed as per the following according to the affiliated company.
 - It is displayed as search target when the company of main member organization of user is set to application administration company.
 - It is not displayed as search target when the company of main member organization of user is not set to application administration company.

Datasource definition function

Limitation for using datasource definition by the company

The information of datasource definition (Query) that can be used by screen items of application are restricted on the basis of setting contents of "Query administration company setting".

Details: ***Create / Update / Delete query***

Query administration company setting

- Create/Edit/Delete for Datasource definition (Query) can be executed only by the user having "application creation manager" role.

Default value of query administration company setting

- The default value of query administration company setting is displayed as follows according to the information for main member information of user who created the corresponding datasource definition (Query).
 - User has main member information -> Query administration company setting: Yes, Company: Company of main member organization of user

- User does not have main member information -> Query administration company setting: No, Company:Yes

Query administration company setting at the time of migration (Import/Export)

- In case of migration of query between different versions (version 7.2->IM-FormaDesigner for Accel Platform), "Query administration company setting" are set as "No settings".
- In case of migration of query between similar versions (IM-FormaDesigner for Accel Platform->IM-FormaDesigner for Accel Platform), "Query administration company setting" is set as migration target.

Application administration company and datasource administration company

- When "Query administration company setting" is set, it is determined as follows in combination with "Application administration company setting".

Application administration company setting	Query administration company setting	Usage availability of query
Yes	Yes	
Yes	No	Can be used
No	Yes	Cannot be used
No	No	Can be used

- Determination pattern when both application administration company setting and query administration company setting are set

- The company set to "Query administration company setting" can be used only when all items are included in "Application administration company setting".

The determination table when 3 companies such as company A, company B and company C are set in 1 tenant is as shown below.

Application administration company setting	Query administration company setting	Usage availability of query
A	A	Can be used
A	B	Cannot be used
A	A,B	Can be used
A,B	A	Cannot be used
A,B	A,B	Can be used
A,B	B,C	Cannot be used
None	None	Cannot be used
None	A	Cannot be used
A	None	Cannot be used

Note) The bottommost pattern of "None" is specified when "Administration company setting: Yes, but, target company is not set".

Numbering rule definition function

Limitation for using numbering rule definition by the company

The information of numbering rule definition that can be used by screen items of application are restricted on the basis of setting contents of "Numbering rule definition management company setting".

Details: [Use numbering function](#)

Numbering rule definition management company setting

- Create/Edit/Delete can be executed for Numbering rule definition only by the user having "application creation manager" role.

Default value of Numbering Rule Definition Management Company Setting

- The default value of administration company setting of numbering rule definition are displayed as follows according to the main member information of user who created the corresponding datasource definition (Query).
 - User has main member information -> Numbering rule definition management company setting: Yes, Company: Company of main member organization of user
 - User does not have main member information -> Numbering rule definition management company setting: No, Company: No

Numbering rule definition management company setting at the time of migration (Import/Export)

- In case of migration of numbering rule definition irrespective of different version (version 7.2->IM-FormaDesigner for Accel Platform) or similar version (IM-FormaDesigner for Accel Platform->IM-FormaDesigner for Accel Platform), "Numbering rule definition management company setting" is not considered for migration. However, immediately after migration, since "Administration company setting" of numbering rule definition are considered as valid, it should be set to invalid or correspond to set the administration company.

Application administration company and numbering rule definition administration company

- When "Numbering rule definition management company setting" is set, it is determined as follows in combination with "Application administration company setting".

Application administration company setting	Numbering rule definition management company setting	Usage availability of numbering rule definition
Yes	Yes	
Yes	No	Can be used
No	Yes	Cannot be used
No	No	Can be used

- Determination pattern when both application administration company setting and Numbering Rule Definition Management Company Setting are set.

- Company set in "Numbering rule definition management company setting" only when all items are included in "Application administration company setting".

The determination table where 3 companies such as company A, company B and company C are set in 1 tenant is as shown below.

Application administration company setting	Numbering rule definition management company setting	Usage availability of numbering rule definition
A	A	Can be used
A	B	Cannot be used
A	A,B	Can be used
A,B	A	Cannot be used
A,B	A,B	Can be used
A,B	B,C	Cannot be used
None	None	Cannot be used
None	A	Cannot be used
A	None	Cannot be used

Note) Bottommost pattern of "None" is specified, when "Administration company setting: Yes, but, target company is not set".

Applications linked with IM-Workflow

- The applications linked with IM-Workflow is set as per the following according to the administration company setting.
 - The execution (Execution as contents of workflow) is set on the basis of settings contents of IM-Workflow.
 - Management function (Edit form or delete application, etc) is set on the basis of "Application administration company setting".
 - "Search flow" and "Search node" used in "Job property", "Append setting" are set on the basis of settings of flow definition which uses the corresponding contents definition.

Application of WF linkage of IM-FormaDesigner

An example of the usage method combining each function of WF linkage of IM-FormaDesigner is introduced.

Contents

- Consider only specific approval node as input mandatory item
- Use value of specific items entered by approver as job property

Consider only specific approval node as input mandatory item

It is a method to consider only specific items as "input mandatory" for approval nodes on the route of workflow and set them as reference items in other approval nodes.

Functions to be used

- Recycle form
- Form transition
- WF relation - Approval screen setting

Setting procedure

- Pre-requisites
 - The screen (Main form) of application node or other approval node should be created.
 - The following contents should be set in the property of items which are considered as input mandatory in specific approved nodes in the form created previously.
 - Display type: Approval, reference -> reference
 - Input validation: Required -> not specified (Checkbox is off)
- Procedure
 - Transit to "Application list" - {Target application name} - "Form setting".

- Click "Edit" from "Application version list".

Form setting

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)

Application information Form setting Table setting Wf relation setting

Add

Edit Application history number	Valid start date	Valid end date	Remarks	Updated date
	1 2012/09/01	2999/12/31		2013/10/15

Page 1 of 1 View 1 - 1 of 1

- Click "Add" of "Form list".

Form list

Edit	Edit form	Preview	Form name	Form remarks
			Main form	The screen to enter the details of the purchase application.
			Order screen	The form for outputting order sheet

Add

- Enter a name in "Form name" and click "Add".

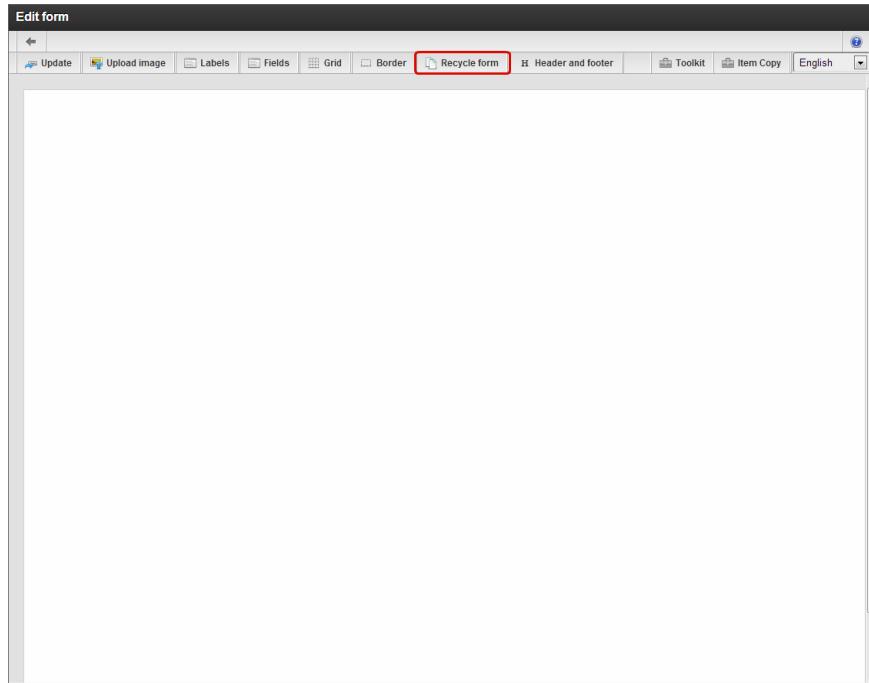
Add form

Add form

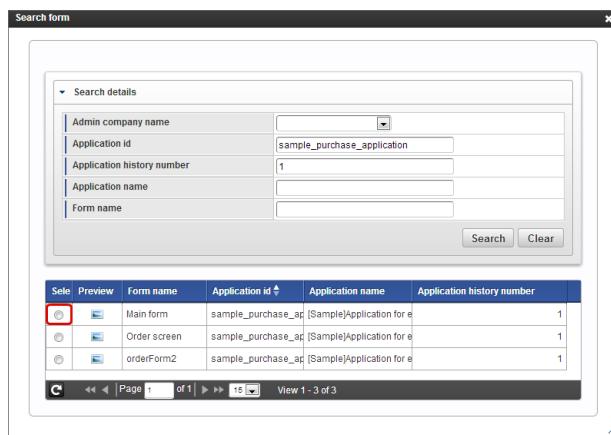
English	
Form name *	orderForm2
Form remarks	
Japanese	
Form name *	発注書ホーム2
Form remarks	
Chinese	
Form name *	发订单画面2
Form remarks	

Add

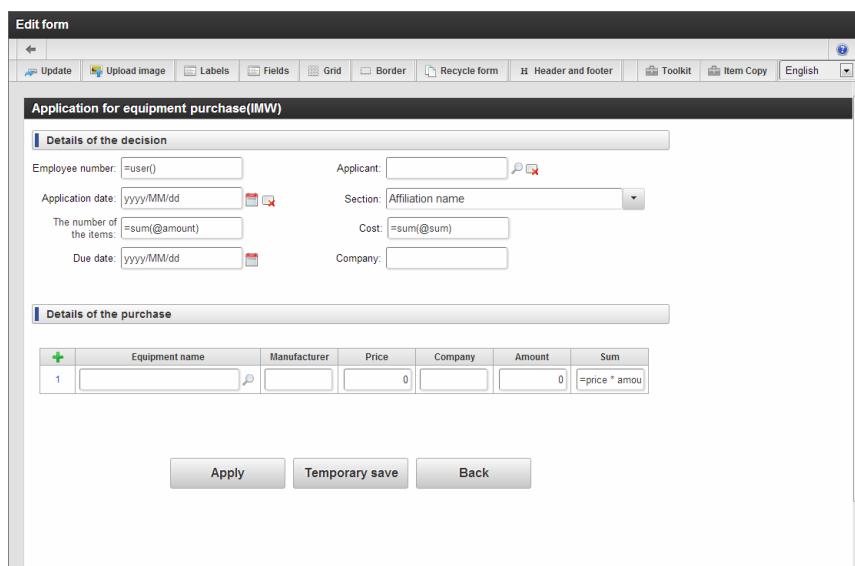
- Click "Recycle form" on form designer screen.



- Click "Select" of the form created previously.



- Copy the layout of selected form to newly added form.



- Change the property of screen items which are considered as input mandatory in the copied form, to the following contents.
 - Display type: Approve -> Enterable

Properties

Basic configuration

- Field ID *: application_date
- Field ID name *: Application date
- Add to DB:
- Initial value: Current date
- Label width *: 120
- Field width *: 150
- Item name *: Application date

Display type

	Display	Non-displa
Apply *	<input checked="" type="radio"/>	<input type="radio"/>
Re-apply *	<input checked="" type="radio"/>	<input type="radio"/>
Approve *	<input checked="" type="radio"/>	<input type="radio"/>
Refer *	<input type="radio"/>	<input checked="" type="radio"/>

- Input check: Required -> Yes (set checkbox to ON)

Properties

Basic configuration

Input validation

- Required

- Click "Update" and save the form data.

Edit form

Application for equipment purchase(IMW)

Details of the decision

- Employee number: =user()
- Application date: yyyy/MM/dd
- The number of items: =sum(@amount)
- Due date: yyyy/MM/dd

Details of the purchase

	Equipment name	Manufacturer	Price	Company	Amount	Sum
1			0		0	=price * amount

Buttons: Apply, Temporary save, Back

- Transit to "Form transition list" and click "Add" of "Reference screen transition".

Form transition list

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)
Application history number	1

Application history information Form list **Form transition list** User program list

Registration screen transition

Edit	Edit details	Default	Transition name	Form number
			Registration screen	1

Update screen transition

Edit	Edit details	Default	Transition name	Form number
			Update screen	1

Reference screen transition

Edit	Edit details	Default	Transition name	Form number
			Reference screen	1

- Set a name in "Transition name" and click "Add".

Add form transition

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)
Application history number	1
Transition type	Reference form transition

English

Transition name *	reference2
-------------------	------------

Japanese

Transition name *	参考2
-------------------	-----

Chinese

Transition name *	参考2
-------------------	-----

Add

- Click "Add".

Edit form transition details

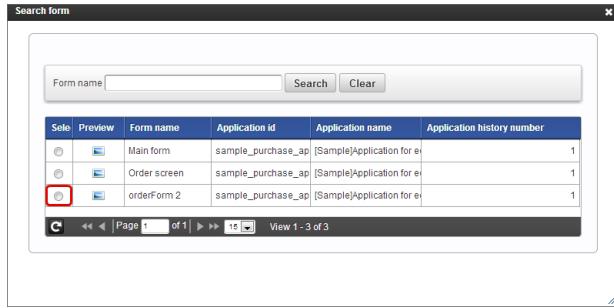
Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)
Application history number	1
Transition type	Reference form transition
Transition name	reference2

Form name **Preview** **Delete**

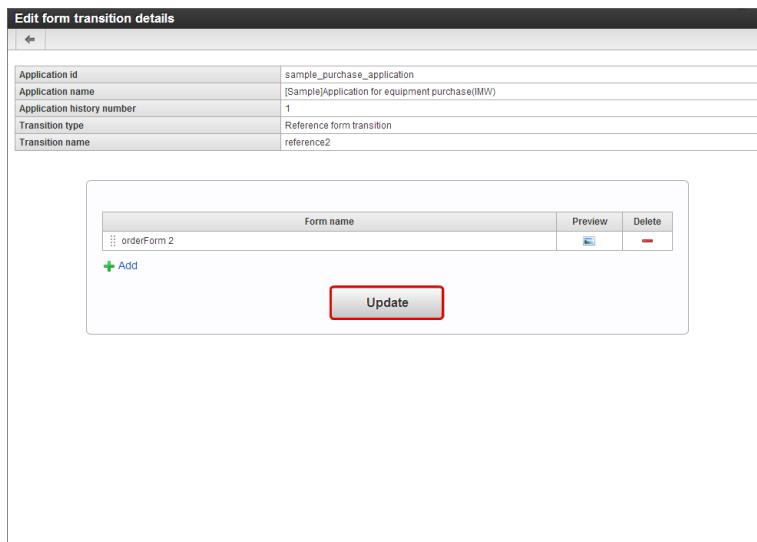
+ Add

Update

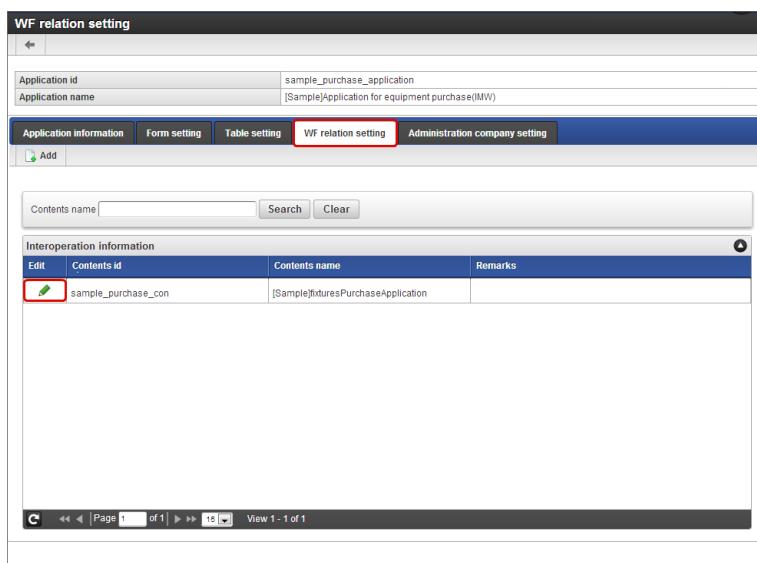
- Click 'Select' of the form created by the procedure.



- Click "Update" and save the form transition information.



- Click "Edit" in "WF relation setting".



- Click "Add" in "Approval screen setting".

Approval screen setting

Application id	sample_purchase_application			
Application name	[Sample]Application for equipment purchase(MW)			
<input type="button" value="Contents interoperation information"/> <input style="background-color: #00529e; color: white; border: 1px solid #00529e; border-radius: 5px; padding: 2px 10px; margin-right: 5px;" type="button" value="Approval screen setting"/> <input type="button" value="Job property setting"/> <input type="button" value="Append setting"/>				
<input style="border: 2px solid red; border-radius: 5px; padding: 2px 10px;" type="button" value="Add"/>				
Edit	Flow id	Node id	Application history number	Reference transition name

C << < | Page 0 of 0 | > >> No records to view

- Click on magnifying glass icon on the right side of flow ID.

Add approval screen setting

Select target version

Application history number *	1
Flow id *	<input type="text"/>
Node id *	<input type="text"/>
Reference transition *	Reference screen

Add

- Click "Select" of flow.

Flow selection

Select	Flow id	Flow name	Remarks
<input type="checkbox"/>	sample_flow_001	Application flow for equip	

C << < | Page 1 of 1 | > >> 15 View 1 - 1 of 1

- To specify the node, select a node name and click "Select".

Node selection

Flow version	2013/01/01 - 2999/12/31
Route version	2013/10/01 - 2013/10/31
Node name	SampleSector12 SampleDivision01

Select

- Select the reference screen Transition name set by "Form transition list" in "Reference transition".

The screenshot shows the 'Add approval screen setting' dialog box. It has four input fields: 'Application history number' (1), 'Flow id' (Application flow for equipment purchase), 'Node id' (route_01_02_temp_02), and 'Reference transition' (reference2). A red box highlights the 'Add' button at the bottom.

- Click "Add".

The screenshot shows the same 'Add approval screen setting' dialog box as the previous one, but the 'Add' button is now highlighted with a red box.

- The settings to check input for approval node are complete.

The screenshot shows the 'Approval screen setting' list view. It displays a single row for 'sample_purchase_application'. The 'Edit' column contains a green edit icon with a red box around it. The table has five columns: Edit, Flow id, Node id, Application history number, and Reference transition name. The data in the table is: Edit (green icon with red box), Flow id (Application flow for equipment purchase), Node id (route_01_02_temp_02), Application history number (1), and Reference transition name (reference2).

- During execution, the check is executed similar to the following screen in approval node.

The screenshot shows the 'Application for equipment purchase(IMW)' approval screen. At the top, there is a red warning box with the text 'Fill in Application date'. Below it, the 'Details of the decision' section contains fields for Employee number (aoyagi), Applicant, Application date (highlighted with a red box), Section, Cost, and Company. The 'Details of the purchase' section shows a table with one item: Hub, Price 10,000, Amount 0, Sum 0. At the bottom, there are 'Approve' and 'Back' buttons.

Use value of specific items entered by approver as job property

It is a method to register the value entered in approval node as job property and use it in the branching condition of workflow or process notification mail message.

Functions to be used

- Recycle form
- Form transition
- WF relation - Approval screen setting
- Display type (Screen item - property)

Difference in settings

There are following 2 settings for using the value entered in approved node as job property.

1. Display type during approving of screen items: Enterable

By performing these setting, the value of the corresponding screen item can be entered in **All approval nodes** on workflow.

[Constraints]

- When job property setting are not performed in all approval nodes of workflow, there may be inconsistency in the value of screen item and the value registered in job property.
- Register/update the value when processing of registered flow and node is executed for job property.
- In case of this method, only specific approval node can be entered, but, narrow-down cannot be performed for approval node.

2. Change the approval screen of target approval node using approval screen settings

By performing these settings, the value of corresponding screen item can be entered in **Specific approval node** on workflow.

Setting procedure (Input type)

- Pre-requisites
 - The screen (Main form) to be used by application node/approval node should be created.
- Procedure
 - Transit to "Application list" - {Target application name} - "Form setting".

Application history number	Valid start date	Valid end date	Remarks	Updated date
1	2012/09/01	2999/12/31		2013/10/17

- Click "Edit" from "Application version list".

Application history number	Valid start date	Valid end date	Remarks	Updated date
1	2012/09/01	2999/12/31		2013/10/17

- Click "Edit form" of target form.

Application id	sample_purchase_application
Application name	[Sample] Application for equipment purchase(IMW)
Application history number	1

Application history information Form list Form transition list User program list

Add

	Form name	Form remarks
	Main form	The screen to enter the details of the purchase application.
	Order screen	The form for outputting order sheet.

- Change the property of target screen items which are to be entered/updated in approval node in the form in form designer screen to the following contents.
Set "Refer" when other apply/Re-apply, reference display type is not entered/updated in the corresponding node and set "Non-display" when the item itself is not to be displayed.
- Display type: Approval -> Enterable

Edit form

Application for equipment purchase(IMW)

Employee number: Employee number: Applicant:

Application date: yyyy/MM/dd

The number of the items: The number of the items: Due date: yyyy/MM/dd

Details of the purchase

Equipment name: Manufacturer:

Properties

Basic configuration Detail setting Display style

Set the detail of the item.

Field ID *	application_date
Field ID name *	Application date
Add to DB	<input checked="" type="checkbox"/>
Initial value	<input checked="" type="checkbox"/> Current date
Label width *	120
Field width *	150
Item name *	Application date

Display type

Set display or non-display in each process

	Display	Non-displa	
	Enterable	Refer	Non-displa
Apply *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Re-apply *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Approve *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Refer *	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

- Click "Update" and the settings are complete after saving the form data.

Setting procedure (Approval screen setting)

- Pre-requisites
 - The screen (Main form) to be used by application node/approval node should be created.
 - The following contents should be set in the property of items which are considered as input mandatory in specific approval nodes in the form created previously.
 - Display type: Approval -> Refer
- Procedure
 - Transit to "Application list" - {Target application name} - "Form setting".

Form setting

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)

Application information Form setting Table setting WF relation setting Administration company setting

Add

Application version list

Edit	Application history number	Valid start date	Valid end date	Remarks	Updated date
	1	2012/09/01	2999/12/31		2013/10/17

Page 1 of 1 View 1 - 1 of 1

- Click "Edit" from "Application version list".

Form setting

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)

Application information Form setting Table setting WF relation setting Administration company setting

Add

Application version list

Edit	Application history number	Valid start date	Valid end date	Remarks	Updated date
	1	2012/09/01	2999/12/31		2013/10/17

Page 1 of 1 View 1 - 1 of 1

- Click "Add" of "Form list".

Form list

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)
Application history number	1

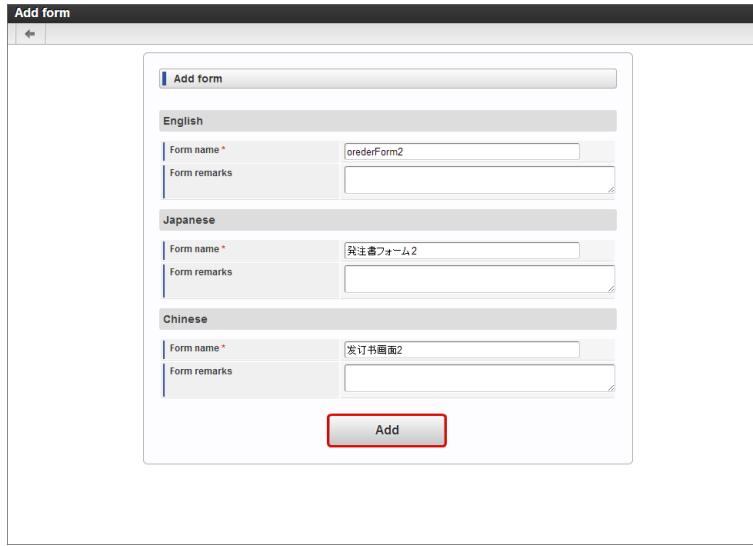
Application history information Form list Form transition list User program list

Add

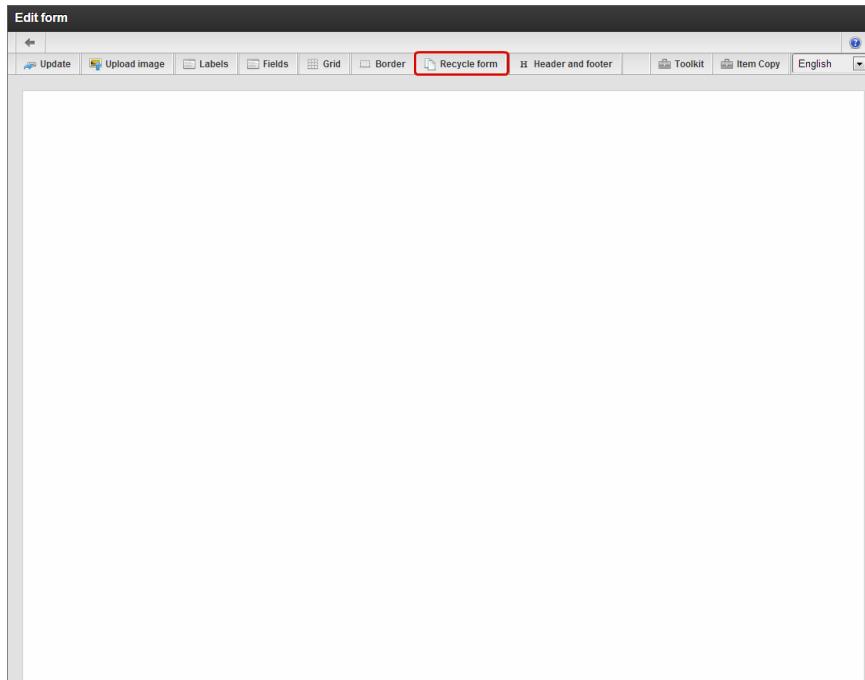
Form name Form remarks

			Main form	The screen to enter the details of the purchase application.
			Order screen	The form for outputting order sheet

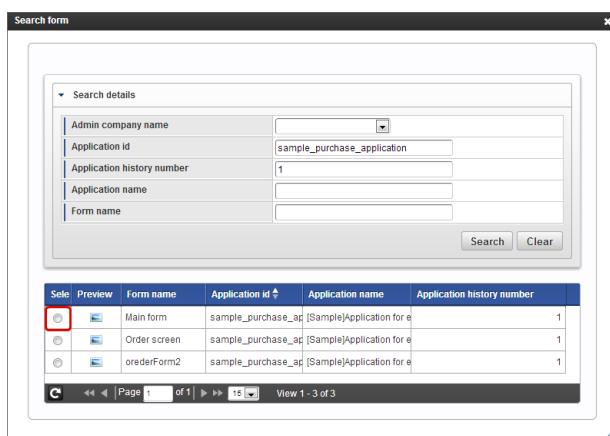
- Enter a name in "Form name" and click "Add".



- Click "Recycle form" in form designer.



- Click "Select" of the previously created form.



- The layout of the selected form is copied to the newly added form.

- Change the property of target screen items in the copied form to the following contents.
- Display type: Approval -> Enterable

- Click "Update" and save the form data.

- Transit to "Form transition list" and click "Add" of "Reference screen transition".

Form transition list

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)
Application history number	1

Application history information Form list **Form transition list** User program list

Registration screen transition

Edit	Edit details	Default	Transition name	Form number
			Registration screen	1

Update screen transition

Edit	Edit details	Default	Transition name	Form number
			Update screen	1

Reference screen transition

Edit	Edit details	Default	Transition name	Form number
			Reference screen	1

- Enter a name in "Transition name" and click "Add".

Add form transition

Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)
Application history number	1
Transition type	Reference form transition

English

Transition name *	reference2
-------------------	------------

Japanese

Transition name *	参考2
-------------------	-----

Chinese

Transition name *	参考2
-------------------	-----

Add

- Click "Add".

Edit form transition details

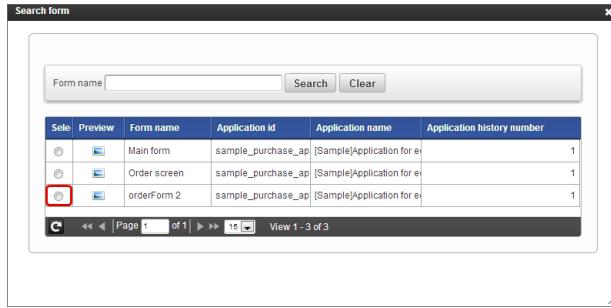
Application id	sample_purchase_application
Application name	[Sample]Application for equipment purchase(IMW)
Application history number	1
Transition type	Reference form transition
Transition name	reference2

Form name **Preview** **Delete**

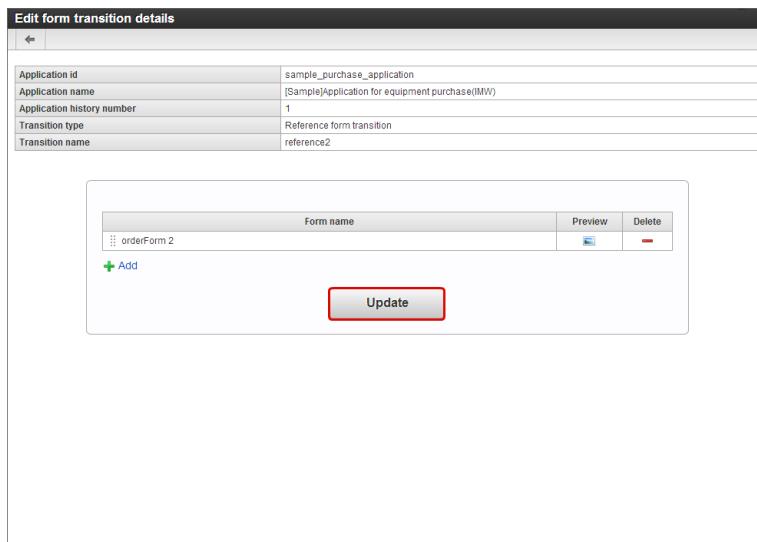
+ Add

Update

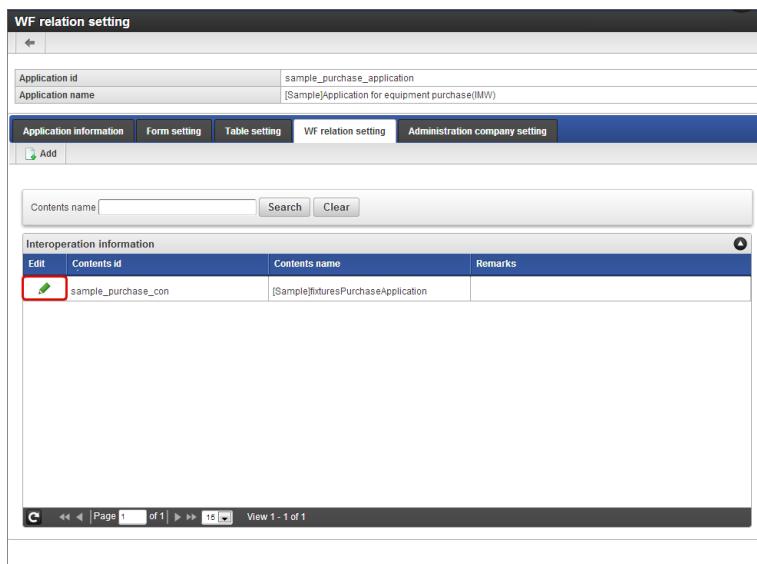
- Select the form created by the procedure.



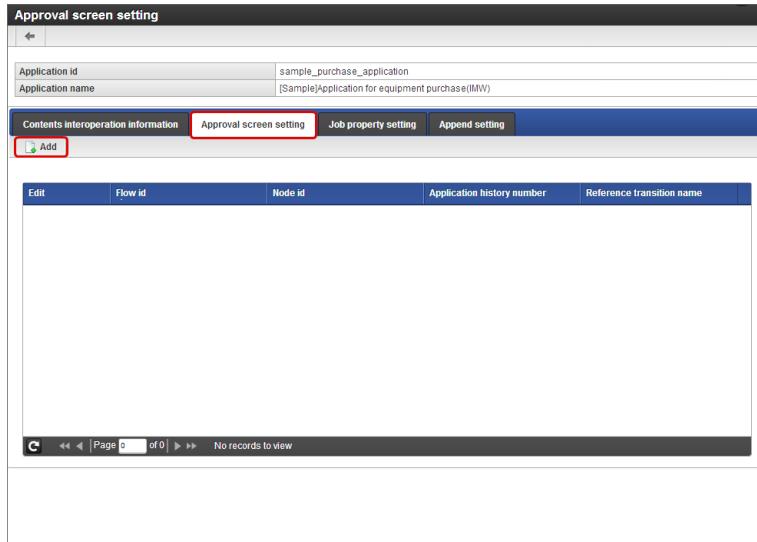
- Click "Update".



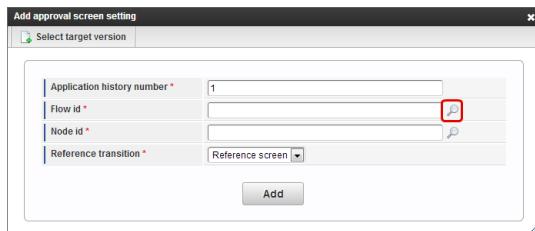
- Click 'Edit' in "WF relation setting".



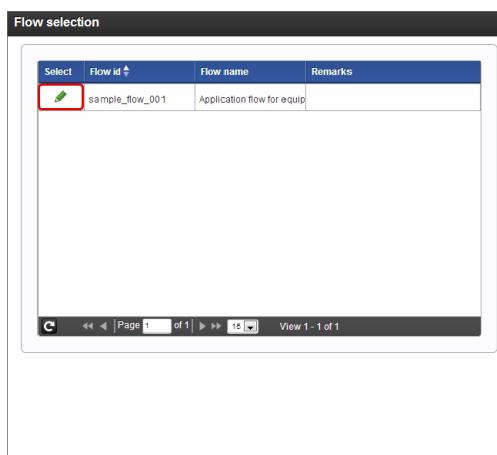
- Click "Add" in "Approval screen setting".



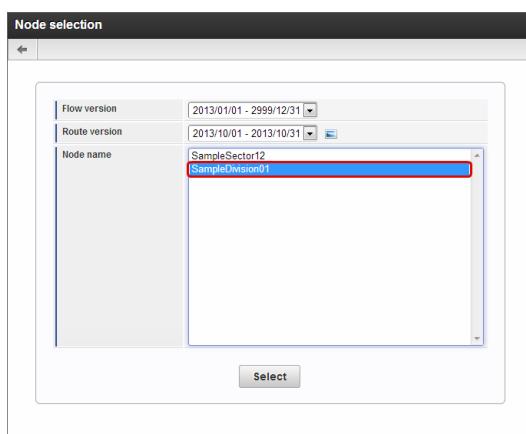
- Click on the magnifying glass icon on the right side of flow ID.



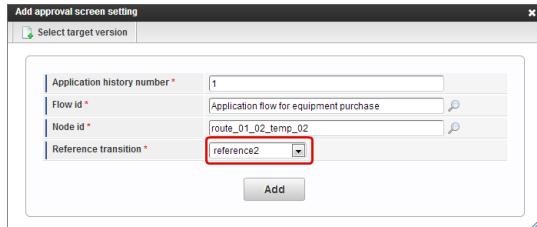
- Click "Select" of flow.



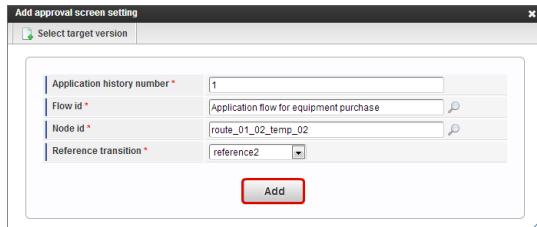
- To specify the node, select a node name and click "Select".



- Select the reference screen Transition name set by "Form transition list" in "Reference transition".



- The settings are complete when "Add" is clicked.



Procedure to set form items in job property

The value of job property can be set in approval node by combining with the procedure mentioned above if form item is linked with job property.

- Register job property in advance.

Key	address
Key name (Required)	English: Address Japanese: 地名 Chinese: 地址
Type (Required)	Character string
Usage type	<input checked="" type="checkbox"/> Use as an item in the list display items <input checked="" type="checkbox"/> Use as an email replacement string <input checked="" type="checkbox"/> Use as an IMBox replacement string <input checked="" type="checkbox"/> Use as a variable in the rule conditions
Display position	Left justified
Search scope	Single search
Display calendar	<input type="checkbox"/> Display calendar
Remarks	English Japanese Chinese

- Click "WF relation setting".

Edit	Application history number	Valid start date	Valid end date	Remarks	Updated date
	1	2012/09/01	2999/12/31		2013/10/17

- Click "Edit" of Interoperation information.

WF relation setting

Application id	sample_purchase_application								
Application name	[Sample]Application for equipment purchase(IMW)								
Application information Form setting Table setting WF relation setting Administration company setting									
<input type="button" value="Add"/> <input type="button" value="Search"/> <input type="button" value="Clear"/>									
Contents name: <input type="text"/> <input type="button" value="Search"/> <input type="button" value="Clear"/>									
Interoperation information <table border="1"> <thead> <tr> <th>Edit</th> <th>Contents id</th> <th>Contents name</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td><input type="button" value="Edit"/></td> <td>sample_purchase_con</td> <td>[Sample]FuturesPurchaseApplication</td> <td></td> </tr> </tbody> </table>		Edit	Contents id	Contents name	Remarks	<input type="button" value="Edit"/>	sample_purchase_con	[Sample]FuturesPurchaseApplication	
Edit	Contents id	Contents name	Remarks						
<input type="button" value="Edit"/>	sample_purchase_con	[Sample]FuturesPurchaseApplication							
<input type="button" value="C"/> <input type="button" value="Page 1 of 1"/> <input type="button" value="View 1 - 1 of 1"/>									

- Click "Job property setting".

Contents interoperation information

Application id	sample_purchase_application																												
Application name	[Sample]Application for equipment purchase(IMW)																												
Contents interoperation information Approval screen setting Job property setting Append setting																													
<table border="1"> <tr> <td>Contents id</td> <td>sample_purchase_con</td> </tr> <tr> <td>Application id</td> <td>sample_purchase_application</td> </tr> <tr> <td>Application name</td> <td>[Sample]Application for equipment purchase(IMW)</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> Set the job property name to the application name.</td> </tr> <tr> <td colspan="2"> English <table border="1"> <tr> <td>Contents name *</td> <td>[Sample]Application for equipment purchase</td> </tr> <tr> <td>Remarks</td> <td></td> </tr> </table> </td> </tr> <tr> <td colspan="2"> Japanese <table border="1"> <tr> <td>Contents name *</td> <td>【サンプル】備品購入申請</td> </tr> <tr> <td>Remarks</td> <td></td> </tr> </table> </td> </tr> <tr> <td colspan="2"> Chinese <table border="1"> <tr> <td>Contents name *</td> <td>【样品】备品购买申请</td> </tr> <tr> <td>Remarks</td> <td></td> </tr> </table> </td> </tr> <tr> <td colspan="2" style="text-align: center;"><input type="button" value="Delete"/></td> </tr> </table>		Contents id	sample_purchase_con	Application id	sample_purchase_application	Application name	[Sample]Application for equipment purchase(IMW)	<input checked="" type="checkbox"/> Set the job property name to the application name.		English <table border="1"> <tr> <td>Contents name *</td> <td>[Sample]Application for equipment purchase</td> </tr> <tr> <td>Remarks</td> <td></td> </tr> </table>		Contents name *	[Sample]Application for equipment purchase	Remarks		Japanese <table border="1"> <tr> <td>Contents name *</td> <td>【サンプル】備品購入申請</td> </tr> <tr> <td>Remarks</td> <td></td> </tr> </table>		Contents name *	【サンプル】備品購入申請	Remarks		Chinese <table border="1"> <tr> <td>Contents name *</td> <td>【样品】备品购买申请</td> </tr> <tr> <td>Remarks</td> <td></td> </tr> </table>		Contents name *	【样品】备品购买申请	Remarks		<input type="button" value="Delete"/>	
Contents id	sample_purchase_con																												
Application id	sample_purchase_application																												
Application name	[Sample]Application for equipment purchase(IMW)																												
<input checked="" type="checkbox"/> Set the job property name to the application name.																													
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Chinese <table border="1"> <tr> <td>Contents name *</td> <td>【样品】备品购买申请</td> </tr> <tr> <td>Remarks</td> <td></td> </tr> </table>		Contents name *	【样品】备品购买申请	Remarks																									
Contents name *	【样品】备品购买申请																												
Remarks																													
<input type="button" value="Delete"/>																													

- Click "Add".

Job property setting

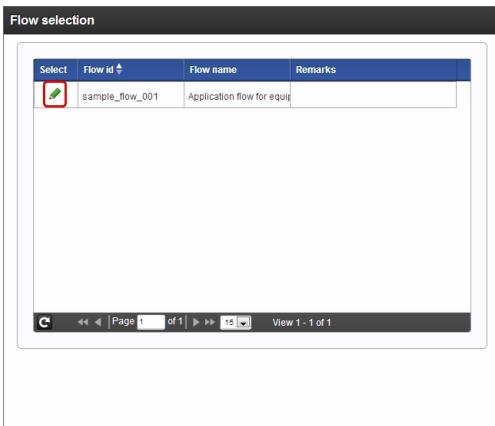
Application id	sample_purchase_application										
Application name	[Sample]Application for equipment purchase(IMW)										
Contents interoperation information Approval screen setting Job property setting Append setting											
<input type="button" value="Add"/>											
<table border="1"> <thead> <tr> <th>Edit</th> <th>Flow id</th> <th>Node id</th> <th>Job property key</th> <th>Item id</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Edit	Flow id	Node id	Job property key	Item id					
Edit	Flow id	Node id	Job property key	Item id							
<input type="button" value="C"/> <input type="button" value="Page 0 of 0"/> <input type="button" value="No records to view"/>											

- Click the magnifying glass icon on the right side of flow ID.

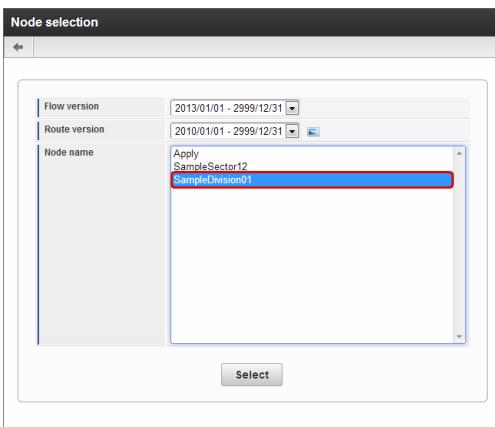
Add job property setting

<input type="button" value="Select target version"/>											
<table border="1"> <tr> <td>Flow id *</td> <td><input type="text"/> <input type="button" value=""/></td> </tr> <tr> <td>Node id *</td> <td><input type="text"/></td> </tr> <tr> <td>Job property key *</td> <td>EXPENSE TheAmountOfMoneyForAnExpenditureSchedule</td> </tr> <tr> <td>Item id *</td> <td><input type="text"/></td> </tr> <tr> <td colspan="2" style="text-align: center;"><input type="button" value="Add"/></td> </tr> </table>		Flow id *	<input type="text"/> <input type="button" value=""/>	Node id *	<input type="text"/>	Job property key *	EXPENSE TheAmountOfMoneyForAnExpenditureSchedule	Item id *	<input type="text"/>	<input type="button" value="Add"/>	
Flow id *	<input type="text"/> <input type="button" value=""/>										
Node id *	<input type="text"/>										
Job property key *	EXPENSE TheAmountOfMoneyForAnExpenditureSchedule										
Item id *	<input type="text"/>										
<input type="button" value="Add"/>											

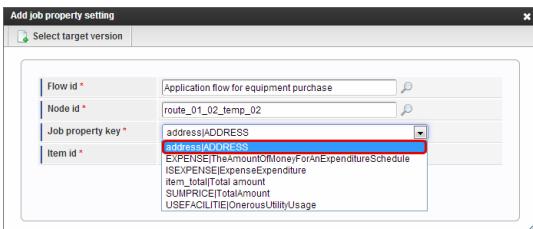
- Click "Select" of flow.



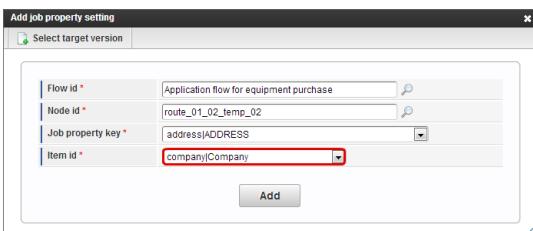
- To specify the node, select a node name and click "Select".



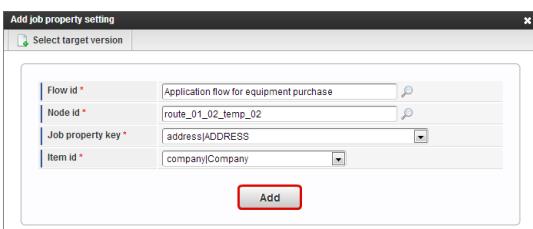
- Select the job property registered in "Job property key".



- Select the form items (Field ID/item name) linked with job property in "Item ID".



- Click "Add" and save the setting contents.



- The settings to link the job property and form items could be performed.

Regarding shortcut URL function

If update URL function and detailed URL function of IM-FormaDesigner version 7.2 is described as "Shortcut URL" as given below in IM-FormaDesigner, reference/update screen of registered data can be displayed.

Shortcut URL for update screen

When update screen of application is to be displayed by specifying URL directly, it can be accessed by specifying the path from context path as follows.

`forma/normal/view/edit_application_view/<Application ID>/<Data registration ID>`

Shortcut URL for reference screen

When reference screen of application is to be displayed by specifying URL directly, it can be accessed by specifying the path from context path as follows.

`forma/normal/view/refer_application_view/<Application ID>/<Data registration ID>`



Note

When setting "Shortcut URL" in the application list screen migrated from IM-FormaDesigner version 7.2, cancel the settings before migration since the application will not run properly after migration.

Specification of screen transition part in IM-FormaDesigner

In IM-FormaDesigner application, specifications of the functional part wherein screen transition is possible, are as follows.

Specifications of screen transition button, "Back" link

In case of application type "Standard"

Type of button/link	Calling screen	Transition destination screen	Other conditions
Register	List display screen	List display screen	None
	Menu (Site map, etc.)	Registration completion message screen	None
Next	List display screen	Next transition destination form	When multiple forms are registered in form transition and next transition destination is set
		No operation (No transition)	When multiple forms are registered in form transition and next transition destination is not set
		No operation (No transition)	When single form is registered in form transition
	Menu (Site map, etc.)	Next transition form	When multiple forms are registered in form transition and next transition destination is set
		No operation (No transition)	When multiple forms are registered in form transition and next transition destination is not set
		No operation (No transition)	When single form is registered in form transition
Back (Button)	List display screen	List display screen	None
	Menu (Site map,etc)	No operation (No transition)	None

Type of button/link	Calling screen	Transition destination screen	Other conditions
	Previous transition destination form	Previous transition destination form	When multiple forms are registered in form transition and previous transition destination is set
Back to list	List display screen	List display screen	None
	Menu (Site map, etc.)	List display screen	When list display is set and it is registered in the menu
		Error screen	When list display is not set
	Previous transition destination form	List display screen	When list display is set and it is registered in the menu
		Error screen	When list display is not set
Temporary save	List display screen	No transition (Re-load)	Contents entered on the registration screen are updated and displayed
	Menu (Site map, etc)	No transition (Re-load)	Contents entered on the registration screen are updated and displayed
Back (Link)	List display screen	List display screen	None
	Menu (Site map, etc)	No operation (No transition)	None
	Previous transition destination form	Previous transition destination form	When multiple forms are registered in form transition and previous transition destination is set

In case of application type "IM-Workflow"

Type of button/link	Calling screen	Transition destination screen	Other conditions
Apply (Register)	Application list	Application list	None
	Temporary save list	Temporary save list	None
	Unprocessed list (Re-apply)	Unprocessed list (Re-apply)	None
Next	Application list	Next transition destination form	When multiple forms are registered in form transition and next transition destination is set
		No operation (No transition)	When multiple forms are registered in form transition and next transition destination is not set
		No operation (No transition)	When single form is registered in form transition
	Unprocessed list	Next transition destination form	When multiple forms are registered in form transition and next transition destination is set
		No operation (No transition)	When multiple forms are registered in form transition and next transition destination is not set
		No operation (No transition)	When single form is registered in form transition
	Processed list	Next transition destination form	When multiple forms are registered in form transition and next transition destination is set
		No operation (No transition)	When multiple forms are registered in form transition and next transition destination is not set
		No operation (No transition)	When single form is registered in form transition
Back	Application list	Application list	None
	Temporary save list	Temporary save list	None
	Unprocessed list	Unprocessed list	None
	Processed list	Processed list	None
	Previous transition destination form	Previous transition destination form	When multiple forms are registered in form transition and previous transition destination is set
Back to list	Application list	Application list	None
	Temporary save list	Temporary save list	None
	Unprocessed list	Unprocessed list	None
	Processed list	Not displayed	It is not displayed when displayed as detailed screen
Temporary save	Application list	Application list	None
	Temporary save list	Temporary save list	None
	Unprocessed list	No operation (No transition)	None
	Processed list	No operation (No transition)	None
Back (Link)	Application list	Application list	None
	Temporary save list	Temporary save list	None
	Unprocessed list	Unprocessed list	None
	Processed list	Not displayed	It is not displayed when displayed as detailed screen

Special cases where there is inconsistency with the authorization settings of application while using screen transition function

- In an application with application type as "Standard", there may be inconsistency with the authorization settings of application while performing screen transition settings and the following operations.
It is necessary to note the cases where the following events occur while setting the screen transition function in the form.
- Conditions

- Application should be created in application type "Standard" and "Back" link of header or "Back to list" of screen item should be set in the form which is displayed initially.
- Authorization of application should be set as "Addable only" for the target users.
- Both registration screen and list screen of corresponding application should be registered in the menu.

- Events to occur
 - If users having "Addable only" authorization access the list display screen of the application, authorization error occurs and access is denied. If "Back to list" button on the registration screen or "Back" link of header is clicked, the list display screen that could not be referred by the original authorization settings may be displayed.

Recycle workflow application

The application linked to the workflow created in IM-FormaDesigner can be applied by copying the application form applied in the past if recycle function of WF application form is used.

The data which can be used as application form to be copied is restricted to the user application (application by the person himself) and proxy application (application on behalf of another user).

Description of each part of WF application form recycle screen

Apply	Application number	Description	Details	Application date
	0000000012	[Sample]Application for equipment purchase(IMW)		2013/10/22
	0000000011	[Sample]Application for equipment purchase(IMW)		2013/10/22

Search condition for application form to be copied

- Application reference date

Search by specifying the application reference date (application date) of the application form to be copied.
- Delegation requestor

Search by specifying the delegation requestor user name when the application form to be copied is the proxy application.
- Flow group

Search by specifying the flow group of the application form to be copied. (it is not displayed even if a single flow group is not defined in IM-Workflow.)
- Flow name

Search by specifying the flow of the application form to be copied.
- Application number, Description

Search by specifying the Application number or Description of the application form to be copied.

List of application forms which can be copied (Search result)

- Apply

When it is clicked, data of specified application form is copied and transition takes place to the screen for new application.

- Application number

Displays the Application number of the application form to be copied.

- Description

Displays the Description of application form to be copied.

- Details

When clicked, the contents of application to be copied are displayed on a different screen.

- Application date

Displays the application date (date on which the application is actually executed) of the application form to be copied.

Procedure to recycle application

1. From the menu, click "Forma application" -> "WF application reuse".
2. The screen of the application form to which the contents of the selected application form are copied, is displayed.
Change the contents of the items as per requirement.
3. When "Apply" is clicked, application form screen of workflow is displayed.
Hence apply by entering the required items.
4. Application process is complete and "WF application reuse" is displayed again.

Items which are not copied by 'WF application reuse'

In "WF application reuse" function, the data copied at the time of recycling basically targets all input / selection fields, however, the input value of following 5 types of screen items are out of scope in the specifications of IM-FormaDesigner.

- Function
- Detail table [Function]
- Select affiliation
- File upload
- Numbering

Procedure for granting usage rights for 'WF application reuse'

1. Click "Tenant management" -> "Authorization" from menu.
2. Click "Start the authorization setting".

Authorization setting (Screen / Process)														
		Types of resource		Screen / Process		Types of action		All actions		Start the authorization setting				
Resource	Action	Certification		User		Department		Role		Tenant Manager	Authz Setting Manager	Menu Manager	Menu Operator	Ac Manager
		Guest User	Authenticated user	hayashi masayo shi	ayagi tatsumi	ueda tatsuo	Sample Company	OtherCompany	Tenant Manager					
Screen and Processing	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
intra-mart Accel Platform	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
welcome-all Mapper	Execute >	✓	✓	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
IM-BIS	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
BIS Business Management	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
BIS Common	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
BIS Common for Manager	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
BIS System Management	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
BIS Use	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
IM-ContentsSearch	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Full-text Search	Execute >	☒	✓	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Forma	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Forma management screen	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Forma application creation	Execute >	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

3. Display "Screen/Process" -> "Forma" -> "Forma management user" -> "WF application reuse" from the resource.

Authorization setting (Screen / Process)										
Types of resource			Screen / Process		Types of action			All actions		
<input checked="" type="checkbox"/> Permit All		<input type="checkbox"/> Deny All		<input type="checkbox"/> Unset All		<input type="checkbox"/> Create new condition		<input checked="" type="checkbox"/> Edit condition		<input type="checkbox"/> Delete condition
										<input type="checkbox"/> Sort condition
Resource		Action	Certification		User		Department		Role	
			Guest User	Authenticated user	hayashi masayo shi	aoyagi tatsumi	ueda tatsuo	Sample Company	OtherCompany	Tenant Manager
Screen and Processing										Authz Setting Manager
IM-ContentsSearch		Execute								
Full-text Search										
Forma		Execute								
Forma management screen		Execute								
Forma application creation		Execute								
Forma application creation		Execute								
Forma management user		Execute								
WF application reuse		Execute								
Authz Maintenance		Execute								
Authz setting (Basic Screen)		Execute								
Authz setting (Parts)		Execute								
Authz setting (Ajax)		Execute								
Calendar		Execute								
Calendar List		Execute								
Calendar Merge		Execute								

4. Set approval by clicking on the locations where earlier displayed resource and target (like user, role) for which rights are to be granted, intersect.

Authorization setting (Screen / Process)										
Types of resource			Screen / Process		Types of action			All actions		
<input checked="" type="checkbox"/> Permit All		<input type="checkbox"/> Deny All		<input type="checkbox"/> Unset All		<input type="checkbox"/> Create new condition		<input checked="" type="checkbox"/> Edit condition		<input type="checkbox"/> Delete condition
										<input type="checkbox"/> Sort condition
Resource		Action	Certification		User		Department		Role	
			Guest User	Authenticated user	hayashi masayo shi	aoyagi tatsumi	ueda tatsuo	Sample Company	OtherCompany	Tenant Manager
Screen and Processing										Authz Setting Manager
IM-ContentsSearch		Execute								
Full-text Search										
Forma		Execute								
Forma management screen		Execute								
Forma application creation		Execute								
Forma application creation		Execute								
Forma management user		Execute								
WF application reuse		Execute								
Authz Maintenance		Execute								
Authz setting (Basic Screen)		Execute								
Authz setting (Parts)		Execute								
Authz setting (Ajax)		Execute								
Calendar		Execute								
Calendar List		Execute								
Calendar Merge		Execute								

5. Click "End the authorization setting".

Authorization setting (Screen / Process)															
Types of resource		Screen / Process		Types of action		All actions		End the authorization setting							
<input checked="" type="checkbox"/> Permit All		<input type="checkbox"/> Deny All		<input type="checkbox"/> Unset All				<input type="checkbox"/> Create new condition		<input type="checkbox"/> Edit condition		<input type="checkbox"/> Delete condition		<input type="checkbox"/> Sort condition	
Resource	Action	Certification	User	Guest User	Authenticated user	hayashi masayo shi	aoyagi tatsumi	ueda tatsuo	Sample Company	OtherCompany	Tenant Manager	Authz Setting Manager	Menu Manager	Menu Operator	Admin
Screen and Processing															
IM-ContentsSearch															
Full-text Search	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Forma	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Forma management screen	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Forma application creation	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Forma application creation	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Forma management user	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
WF application reuse	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Authz Maintenance	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Authz setting (Basic Screen)	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Authz setting (Parts)	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Authz setting (Ajax)	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Calendar	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Calendar List	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Calendar Merge	Execute			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

6. Usage rights for 'WF application reuse' are set.



Note

Refer to "Tenant administrator Guide" for the details of authorization settings.

Register application screen of workflow in menu

Contents

- [Use application screen of workflow from menu](#)
- [Register application screen of workflow in my menu](#)
 - [Display application screen from my menu](#)

Use application screen of workflow from menu

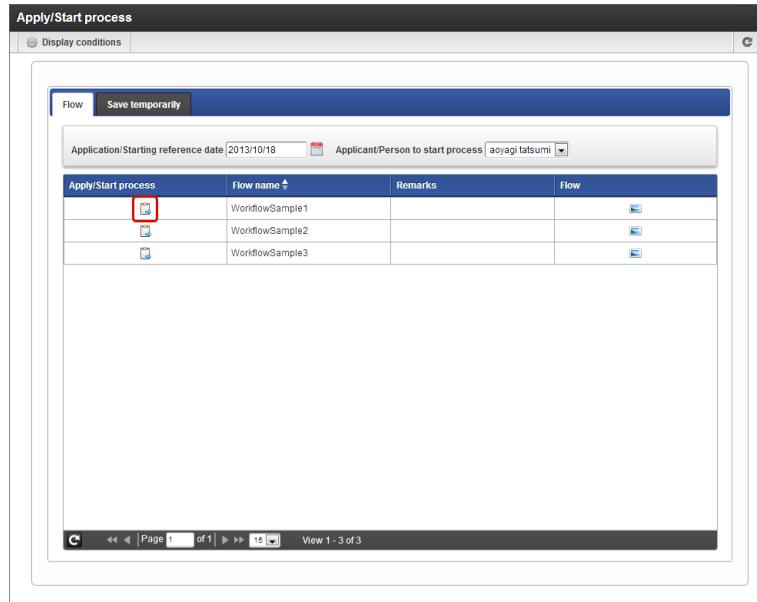
When application is executed by the workflow created in IM-FormaDesigner and IM-Workflow, address of application screen of specific flow can be registered in menu of 'My menu' other than the method to execute it from "Application list" screen.

Application can be executed efficiently by registering application screen of the flow having high frequency of executing the application by the user in the menu.

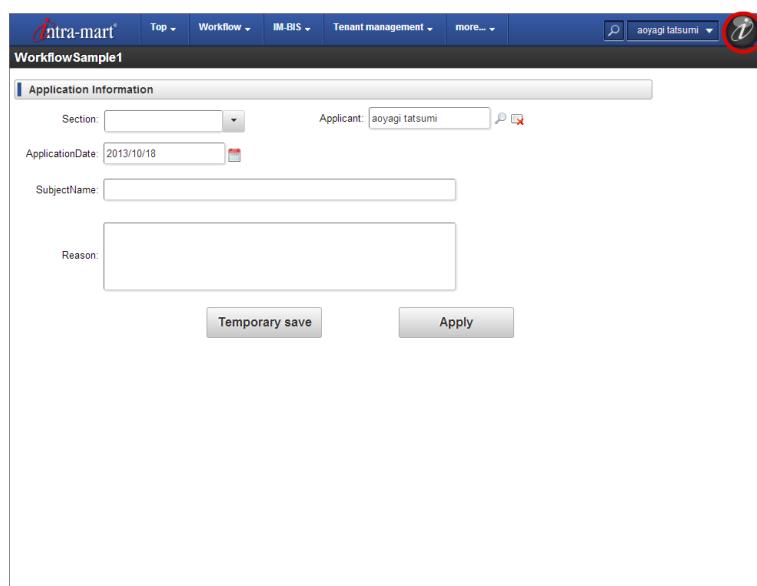
Register application screen of workflow in my menu

Perform the following procedure to register the application screen of workflow in 'My menu'.

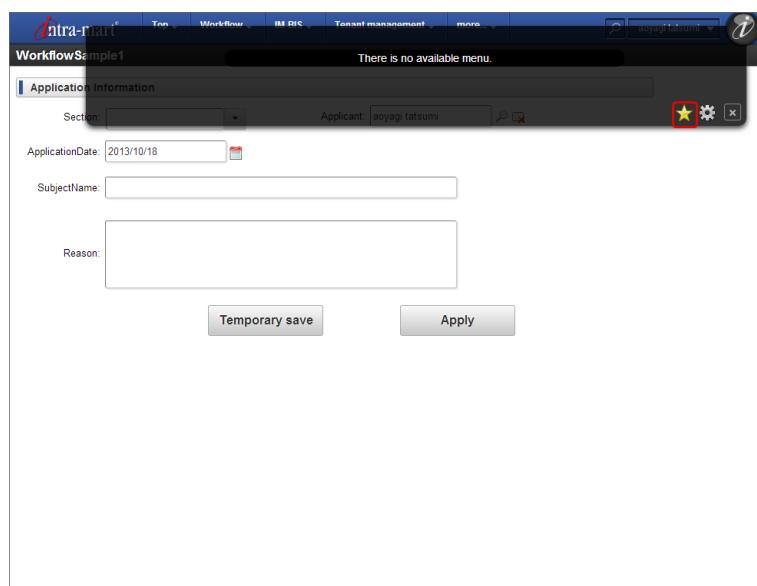
1. Move to "Workflow" -> "Apply" from menu.
2. Click of target workflow.



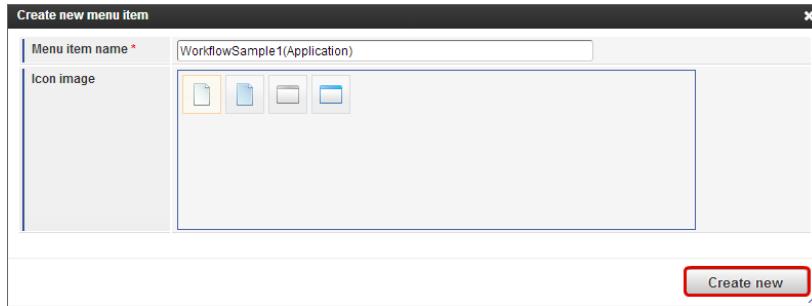
3. Click when application screen is displayed.



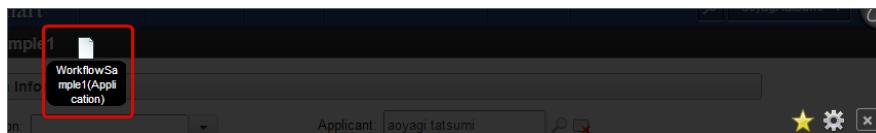
4. Click on the mymenu window.



5. Enter the menu item name in 'Menu item name' and click "Create new".



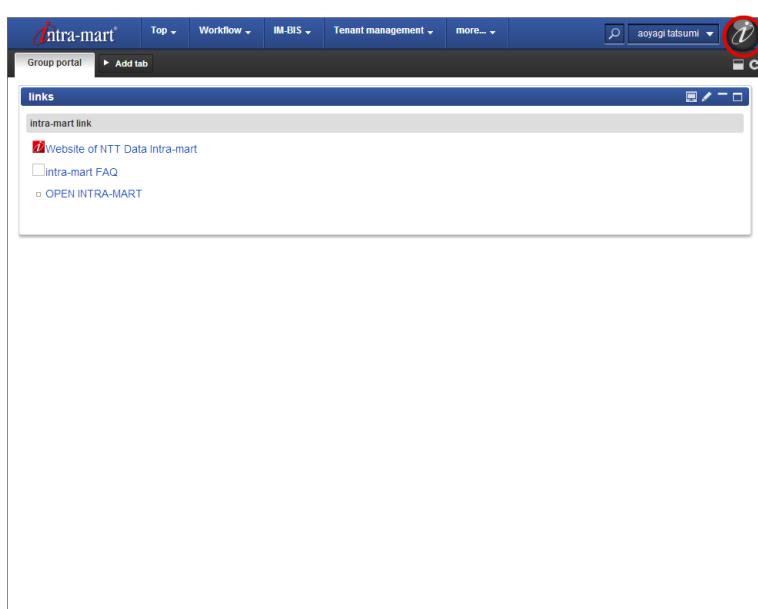
- Application screen can be registered in my menu.



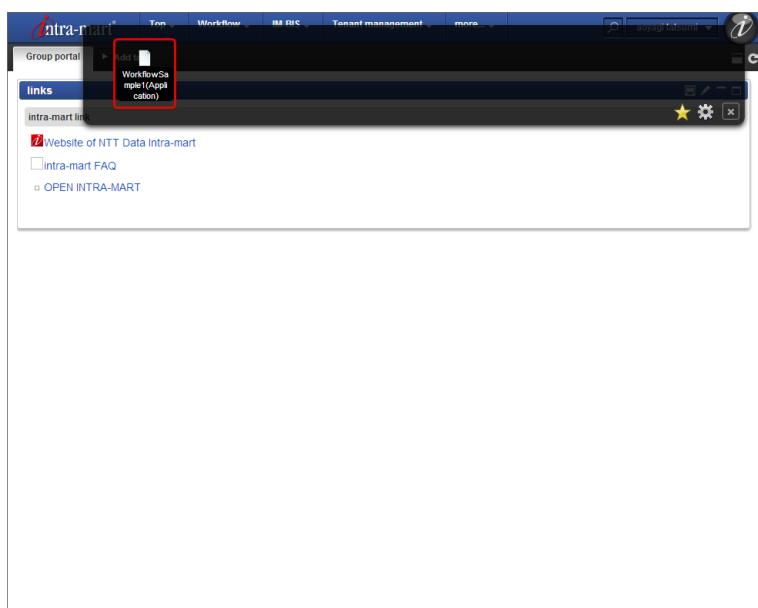
Display application screen from my menu

Perform the following procedure to execute the application from the application screen registered in my menu.

- Click after login.



- Click menu of registered application screen.



- Since the application screen is displayed, application can be executed by entering the required items and clicking "Apply" similar to the procedure of normal application.

WorkflowSample1

Application Information

Section:	<input type="text"/>	Applicant:	aoyagi tatsumi		
ApplicationDate:	2013/10/18				
SubjectName:	<input type="text"/>				
Reason:	<input type="text"/>				

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