Framework

Web Screen Transition Tool Definition Guide

Version 1.5
### Revision History

<table>
<thead>
<tr>
<th>Revision No.</th>
<th>Date</th>
<th>Version</th>
<th>Chapter</th>
<th>Item</th>
<th>Revised Content</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>2013/06/10</td>
<td>1.0</td>
<td>-</td>
<td>-</td>
<td>Initial draft</td>
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<td>3</td>
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<td>Modified the graphical representation method in the editor.</td>
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<td>-</td>
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<td>Modified the overall content due to revision</td>
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<td>Framework refactoring</td>
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<td>Added the URI Settings dialog box.</td>
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CHAPTER 1  PREFACE

This document describes the flow of configuration with the Web Screen Transition Tool, using assumed examples.
CHAPTER 2 WEB SCREEN TRANSITION DEFINITION CREATION

This document describes how to create Web screen transition definitions using a specific example of the processing flow.

2.1 Outline of the Process

This chapter provides example descriptions for the Web Screen Transition Tool based on the following example.

[Outline of Processing]
Input customer information in the Register screen and send the information to the "Customer Server", which is an external system.

- Processing Flow
  ① When the "Send" button is clicked on the "Register Screen", the "Send" screen event is executed.
  ② The "Send" screen event activates the "Transmission Application".
  ③ The "Transmission Application" coordinates with the "Customer Server" external system.

- Register Screen Image
The orange shaded fields are input fields.

<table>
<thead>
<tr>
<th>Register Screen</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name_Local</td>
<td>Fujitsu Taro</td>
<td></td>
</tr>
<tr>
<td>Name_English</td>
<td>Fujitsu Taro</td>
<td></td>
</tr>
<tr>
<td>Email address</td>
<td><a href="mailto:fujitsu@xxx.com">fujitsu@xxx.com</a></td>
<td></td>
</tr>
<tr>
<td>Login ID</td>
<td>xxxax</td>
<td></td>
</tr>
<tr>
<td>Password</td>
<td>* * * * * *</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Date of Birth</td>
<td>2000/01/01</td>
<td></td>
</tr>
<tr>
<td>HP Address</td>
<td><a href="http://www.xxx1.co.jp/">http://www.xxx1.co.jp/</a></td>
<td><a href="http://www.xxx2.co.jp/">http://www.xxx2.co.jp/</a></td>
</tr>
<tr>
<td>[] New Subscription Check</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Send</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.2 Web Screen Transition Definition File Creation

The procedure for Web screen transition definition file creation is as follows. For details on the operation, please refer to the "Web Screen Transition Tool Manual" - "New File Creation" (separate volume).

① Right-click the target folder, and select "New" - "Other".

② Select "Web Screen Transition Tool" - "Screen Transition Definition File" and click the "Next" button.
③ Set "CustomerRegistration.web" for "Design document name", and click the "Finish" button.
2.3 Model Configuration

Configure models in units of processing in the processing flow as shown in the outline of the process. For details on the models, please refer to the "Web Screen Transition Tool Manual" - “Model Description" (separate volume).

As units of processing, "Specifications", "Screen", "Screen Event", "Application", and "External System" are available.

The setting method is as follows.

① A "Specifications" model and a "Screen" model are arranged as the initial values of the file.
Click the "Screen" model to enter the properties edit mode, and change the screen name property to "RegisterScreen".

② Right-click the "RegisterScreen" model, and select "Add" - "Screen Event".
As a dialog box appears, input "Send" as the new model name and click the "OK" button.
3. Right-click the “Send” model in the tree area, and select “Add” - “Application”.
   As a dialog box appears, input “TransmissionApplication” as the new model name and click the “OK” button.

4. Right-click the “TransmissionApplication” model in the tree area, and select “Add” - “External System”.
   As a dialog box appears, input “CustomerServer” as the new model name and click the “OK” button.
The following is the state after the operation.
2.4 Model Properties Configuration

Set the properties of the configured models.
For details on the properties, please refer to the "Web Screen Transition Tool Manual" - "Model Description" (separate volume).

2.4.1 Screen: Register Screen

Click the "Register Screen" model in the tree area or the graphics area to edit the model properties.
An example of configuring the properties for the "RegisterScreen" processing flow screen is as follows.

<table>
<thead>
<tr>
<th>No.</th>
<th>Property Item</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Inheritance class</td>
<td>Yes</td>
<td>Set Custom because the input/output information screen item type is Check box.</td>
</tr>
<tr>
<td>2</td>
<td>Input and Output item</td>
<td>Yes</td>
<td>Please refer to &quot;2.5 Example Configuration in the Input and Output Item Dialog Box&quot;.</td>
</tr>
<tr>
<td>3</td>
<td>Package Name</td>
<td>Yes</td>
<td>Used as the package name during automatic generation of ActionForm. Set the desired value. (In the example above, a package named com.fujitsu.xfw.tool is generated.)</td>
</tr>
<tr>
<td>4</td>
<td>Screen ID</td>
<td>Yes</td>
<td>The ID to identify the screen. Used as the class name during automatic java generation. Set the desired value. (In the example above, a class named &quot;com.fujitsu.xfw.tool.registerScreen&quot; is generated.)</td>
</tr>
<tr>
<td>5</td>
<td>Screen name</td>
<td>Yes</td>
<td>The name of the screen. Set the desired name.</td>
</tr>
</tbody>
</table>
### 2.4.2 Screen Event: Send

Click the “Send” model in the tree area or the graphics area to edit the model properties. An example of configuring the properties for the “Send” processing flow screen event is as follows.

<table>
<thead>
<tr>
<th>No.</th>
<th>Property Item</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Screen event name</td>
<td>Yes</td>
<td>The name of the screen. Set the desired name.</td>
</tr>
</tbody>
</table>

### 2.4.3 Application: Transmission Application

Click the “Transmission Application” model in the tree area or the graphics area to edit the model properties. An example of configuring the properties for the “Transmission Application” processing flow application is as follows.

<table>
<thead>
<tr>
<th>No.</th>
<th>Property Item</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Application name</td>
<td>Yes</td>
<td>The name of the application.</td>
</tr>
<tr>
<td>2</td>
<td>Execution method name</td>
<td></td>
<td>The name of the method of the application executed from the screen event.</td>
</tr>
</tbody>
</table>
| 3   | Related screen ID   |          | The ID of the screen related to the application. In this description example, “registerScreen” is set because the application is related to “RegisterScreen”.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application name</td>
<td>Transmission Application</td>
</tr>
<tr>
<td>Execution method name</td>
<td>send</td>
</tr>
<tr>
<td>Related screen ID</td>
<td>registerScreen</td>
</tr>
</tbody>
</table>
2.4.4 **External System: Customer Server**

Click the "CustomerServer" model in the tree area or the graphics area to edit the model properties.

An example of configuring the properties for the "CustomerServer" processing flow external system is as follows.

<table>
<thead>
<tr>
<th>No.</th>
<th>Property Item</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>External system name</td>
<td>Yes</td>
<td>The name of the external system. Set the desired name.</td>
</tr>
</tbody>
</table>

![Diagram of CustomerServer processing flow](image)

2.4.5 **Specifications: Customer Registration**

Click the "CustomerRegistration" model in the tree area or the graphics area to edit the model properties.

An example of configuring the properties for the "CustomerRegistration" processing flow specifications is as follows.

<table>
<thead>
<tr>
<th>No.</th>
<th>Property Item</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Base class*</td>
<td>Yes</td>
<td>The default class inherited by ActionForm. Describe the full path from the package.</td>
</tr>
</tbody>
</table>

![Diagram of CustomerRegistration model](image)
2.5  **Example Configuration in the Input and Output Item Dialog Box**

Set "Input and Output Item" in the screen model properties.

A row of input/output item settings is set as one variable during automatic java output.

An example of configuration in the input and output item dialog box required for the Register Screen described in the outline of the process is as follows.

1. Define for each item. An explanation of each item is as follows.
   
   For the description of each item, please refer to the "Web Screen Transition Tool Manual" - "Input and Output Item Dialog Box" (separate volume).

2. For the HP address item, set "Yes" for array because multiple settings are acceptable, and for other items accepting data retained as the data type alone but not in an array, set "No".

3. Specify values to set "Name_Local" and "Name_English" to "Fujitsu Taro" by default.

4. For the HP address item, set "Yes" for the "Mapping" item and set Bean items to implement Bean item mapping.
   
   For details on the Bean items, please refer to the "Web Screen Transition Tool Manual" - "Configure the Bean Items Dialog Box".

---

1. Define for each item. An explanation of each item is as follows.
   
   For the description of each item, please refer to the "Web Screen Transition Tool Manual" - "Input and Output Item Dialog Box" (separate volume).

2. For the HP address item, set "Yes" for array because multiple settings are acceptable, and for other items accepting data retained as the data type alone but not in an array, set "No".

3. Specify values to set "Name_Local" and "Name_English" to "Fujitsu Taro" by default.

4. For the HP address item, set "Yes" for the "Mapping" item and set Bean items to implement Bean item mapping.
   
   For details on the Bean items, please refer to the "Web Screen Transition Tool Manual" - "Configure the Bean Items Dialog Box".
2.6 Example Configuration in the Check Items Dialog Box

The following is a description of the Check items dialog box items set on each row.

1. Define for each item.
   - Select “String”, “Long”, or “BigDecimal” from the combo box.
   - To use a unique type, directly input the type.
2. For the “Name_Local” item, enable “Required Check” because input is required.
3. For the “Name_Local” item, enable “Byte Count Check” and set MIN to 1 and MAX to 200 because multi-byte character strings are accepted and the range of bytes but not of characters (1 - 200 bytes) is assumed to be appropriate.
4. For the “Name_English” item, enable none of the check items because it has no items require checking.
5. For the “Email address” item, enable “E-mail Address Check” because the email address format is assumed.
6. For the “Login ID” item, enable “Character Count Check” and set MIN to 8 and MAX to 16 because 8 - 16 half-width alphanumeric characters are assumed.
7. For the “Login ID” item, enable “Regular Expressions Check” and set [0-9a-zA-Z] as the range because only half-width alphanumeric characters are acceptable.
8. For the “Password” item, enable "Correlation Check" and set "loginID != password" using the user ID and password "Screen item _ value" because a string exactly the same as the password is unacceptable.

9. For the “Age” item, enable "Range Check" and set the range values to 10 and 200 because 10- to 200-year-old people are targeted.

10. For the “Date of Birth” item, enable "Date Check" and set an "YYYY/MM/DD" date string because the date format is assumed to include slashes (/).
    - Set "YYYYMMDD" in the case of 20130601, and set YYYYMM in the case of 201306.
    - Set "yyyy/MM/dd HH:mm:ss" in the case of 2013/06/01 12:30:30.

11. For the “Prefecture” item, directly input "com.fujitsu.datas.Address" in the data type field to use "com.fujitsu.datas.Address" which is created uniquely. (If a unique type is set, all of the checks are disabled.)
12. For the "HP address" item, enable "URL Check" because a URL format description is assumed.
2.7  **Example Configuration in the Service Settings Dialog Box**

Example descriptions in the Service Settings dialog box are as follows. For the "Service Name", "Use Case ID", and "Operation ID" items, set the corresponding service name, use case ID, and operation ID.

![Service Settings Dialog Box](image)

2.8  **Example Configuration in the Configure the Bean Items and Specify a APIFBean Dialog Boxes**

Example descriptions in the Configure the Bean items dialog box are as follows.

![Configure the Bean Items Dialog Box](image)

- ![Specify a APIFBean Dialog Box](image)

1. The "Input and Output", "Input", and "Output" items represent the combination of "HP address" and Bean item mapping cases. Enable the "Input and Output" button to implement mapping both at input and at output.
2. For the "Input Bean Item", select the Browse button and set the corresponding Bean item in APIFBean specification. (Also set the "Output Bean Item" in a similar manner.)

   -> For details on the settings for the Bean class display in the Specify a APIFBean dialog box, please refer to the "Web Screen Transition Tool Manual" - "APIF Preferences Page" (separate volume).
2.9 Example Configuration in the URI Settings and URI reference Dialog Boxes

Example descriptions in the URI Settings dialog box are as follows.

1. For the "Domain", "Context", and "Path" items, set the corresponding URI domain, context, and path. It is also possible to refer to a URI mapping definition file from the "Browse" button to select a URI.
2. The URI formed based on the "Domain", "Context", and "Path" item inputs is displayed.