SAP Composite Application
Framework

Modeling an Info Callable Object
## Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Represents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Example Text</strong></td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation.</td>
</tr>
<tr>
<td><strong>Example text</strong></td>
<td>Emphasized words or phrases in body text, graphic titles, and table titles.</td>
</tr>
<tr>
<td><strong>EXAMPLE TEXT</strong></td>
<td>Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.</td>
</tr>
<tr>
<td><strong>Example text</strong></td>
<td>Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.</td>
</tr>
<tr>
<td><strong>Example text</strong></td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
</tr>
<tr>
<td><strong>&lt;Example text&gt;</strong></td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
</tr>
<tr>
<td><strong>EXAMPLE TEXT</strong></td>
<td>Keys on the keyboard, for example, F2 or ENTER.</td>
</tr>
</tbody>
</table>

## Icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>🚨</td>
<td>Caution</td>
</tr>
<tr>
<td>📋</td>
<td>Example</td>
</tr>
<tr>
<td>📖</td>
<td>Note</td>
</tr>
<tr>
<td>🌐</td>
<td>Recommendation</td>
</tr>
<tr>
<td>🕵️‍♂️</td>
<td>Syntax</td>
</tr>
</tbody>
</table>
# Contents

Scenario ........................................................................................................................................... 1

About This Document ......................................................................................................................... 1
  - General Prerequisites ................................................................................................................... 1
  - Applicable Releases ...................................................................................................................... 2
  - Disclaimer ................................................................................................................................... 2

The Step-By-Step Solution .................................................................................................................. 3
  - Select the Action of an Existing Process .................................................................................... 3
  - Add an Info Callable Object in Guided Procedures Design Time .............................................. 4
  - Optional Settings for the Added Info Callable Object ................................................................. 5
  - Select the Appropriate Runtime View for the Process ............................................................... 8
  - Test the Info Callable Object in Guided Procedures Runtime .................................................. 10
Scenario

The purpose of an info callable object is to provide an action, block or process containing references to callable objects that are used to call, for example, repeated actions, such as reports, in order to change an address or to retrieve some useful data during the execution of a process.

At process runtime these info objects can be executed by the contributors.

These info callable objects do not produce work items when they are called; they have no due date and no status (such as “completed”). They can be called several times within the running process.

The visibility of the info callable object defined at design time is determined by the GP object (process, block or action) to which it is added. It is available during the lifetime of the given GP object.

A callable object that exposes a user interface can be used as an info callable object (for example Web Dynpro components or applications, Web pages, BSP applications).

It is possible to pass the input parameters of the action, block or process, or to define default values as input for the info callable object.

You can also group the info callable objects into categories such as “Reports” or “Additional Services”. After categorizing the info CO it is no longer available without a category; you would need to define another info CO.

At runtime, the info COs are displayed in the “Options” contextual panel component.

About This Document

This tutorial describes how to add an info callable object to an action object using the Guided Procedures Design Time. The process for adding an info callable object to a block or process is similar, their only difference being the runtime visibility.

In this example we use an existing process and a callable object that was already created – a simple Web search – added to an action.

How to create this callable object is described in [1]. You can use any existing process or CO; the screenshots in this document will assist you in creating your own info CO.

If you want to categorize your info CO, you must implement a runtime view that is able to visualize it. For information on how to implement a runtime view, see chapter 3.4.

If you do not want to implement such a view, you can skip that part. In this case do not define a category for your info CO.

General Prerequisites

- A callable object to be used as info callable object must exist in status “activated”
- There must be an existing and working process (with at least one block and one action)
Applicable Releases

This tutorial is compatible with the following release: Beginning with SAP NetWeaver '04s SPS6'.

Disclaimer

Any software coding and/or code lines / strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, except if such damages were caused by SAP intentionally or grossly negligent.
The Step-By-Step Solution

In this solution, you choose an action of an existing process to which to add the info callable object, and then add it in Guided Procedures Design Time. After defining any required settings for the info CO and adding the appropriate view to the process, you execute a runtime test.

Open SAP Enterprise Portal via http://<Server>:<Port>/irj/portal, navigate to tab **Guided Procedures** and tab **Design Time**.

Select the Action of an Existing Process

1. In the Design Time Gallery, select an existing and working process. The info callable object will be added to one of its actions.

   Click on **Open**.
Add an Info Callable Object in Guided Procedures
Design Time

1. In the pane displaying the process with its content, select an action to which you want to add the info callable object.

2. Click on Enter Edit Mode to modify this action.

   If the action is already activated, confirm the update of the inactive version. Click on Yes.

   The action itself and all its ancestor objects become inactive.

3. Click on the Info Callable Objects tab on the bottom pane of the page. The list of added callable objects is displayed (it is empty unless an info CO was previously added).
4. Click on **Add**.

5. Navigate to the callable object that you would like to define as the info callable object for the previously selected action.

Only activated callable objects can be added; inactive callable objects are not displayed.

6. Click on **Add** at the bottom of the page.

7. The callable object you just selected to be added to the list at the bottom of the page is displayed.

Save your data with **Save All**.

**Optional Settings for the Added Info Callable Object**

If your callable object has input parameters you have two options:

1. You can define mappings with the input parameters of the relevant design time object (process, block or action) in order to pass the input values at runtime when the info callable object is executed.

1. Click on **Map Parameters**.
2. In the parameter mapping panel, select the input parameter of the info callable object from the table on the left.

3. Select the relevant context parameter from the table on the right. The Mapped To column of the list on the right is filled with this value.

(You can also undo an existing mapping by selecting the input parameter and clicking on Remove Mapping.)

4. Click on Done when you have finished the mapping.

The “Mapping Defined” checkbox is now marked.

2. Alternatively you can define a default value for the input parameter(s) of the info CO.

1. Click on Set Default.

Enter the default value and click on Done.

The default value appears in the table on the left in column ‘Default’.
Info callable object can also be grouped into arbitrary categories.

**Note:**
- After defining a category for the info CO, it is no longer available without a category; you would need to define another info CO.
- If you want to categorize your info CO, you must implement a runtime view that can visualize it. If you do not implement such a view, skip this part and do not define a category for your info CO.

1. Click on **Set Category**.

2. Either define an existing category as listed here or create a new one by clicking on **Add Category**.

3. Add a category with the name “Search”. Make an entry in the edit box and click on **Add**.
4. Click on **Set Category**.

5. Our info callable object now has category “Search”.

### Select the Appropriate Runtime View for the Process

Guided Procedures enables process contributors to check different aspects of a process at runtime by means of different views. You can configure the available runtime views when designing the process template.

In order to make the info callable object available at runtime, you can add the appropriate view to the process in which it is included.

1. Select your process and choose tab “Select Views”.
2. Click on the **Select Views** tab in the bottom panel.

3. Click on **Add Generic View**.

4. Select the following view:
   - **View**: Process Activities
   - **Description**: Process Activities (allows to view and execute activities and access activity related information and start ad-hoc items)
   - **Development Component**: sap.com/caf~eu~gp~ui~rt
   - **Web Dynpro Component**: com.sap.caf.eu gp.ui.rt.activity.ContentActivity

   ![Selected Runtime Views](image)

   Click on **Add**.

5. Optionally define this new view to be the default by clicking on the radio button in the “Default” column.

6. Save your data with **Save All**.
Test the Info Callable Object in Guided Procedures Runtime

To test how it works at runtime, you have to initiate the process that includes the action to which you just added the info callable object. Make sure that the process is activated before instantiation.

1. Select the process and activate it with Activate.

   All the objects belonging to this process are activated.

2. To instantiate the process, click the Instantiation tab on the bottom panel, click on Generate Instantiation URL and click on Open Instantiate Application.

   Note: You should also set the flag for “Process Started Automatically” using the procedure described here.

3. Provide any required input values.

4. Define the initiator if required.
5. During execution of the action to which you added the info callable object, the link to this info CO is displayed in the contextual panel under “Options”.

Execute it by clicking on its link.

6. The user interface of your info callable object is displayed in the content area.

Click Back to View to switch back to the process.