Creating a Callable Object: BI Application
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## 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><img src="caution.png" alt="Caution" /></td>
<td>Caution</td>
</tr>
<tr>
<td><img src="example.png" alt="Example" /></td>
<td>Example</td>
</tr>
<tr>
<td><img src="note.png" alt="Note" /></td>
<td>Note</td>
</tr>
<tr>
<td><img src="recommendation.png" alt="Recommendation" /></td>
<td>Recommendation</td>
</tr>
<tr>
<td><img src="syntax.png" alt="Syntax" /></td>
<td>Syntax</td>
</tr>
</tbody>
</table>
Scenario

You use the callable object of type BI Application to define a Query or Web application (BEx Web Application) that is displayed immediately when the callable object is executed.

About This Document

This tutorial describes how to create a callable object with which you can integrate the results of a BI Query into a Guided Procedures process.

General Prerequisites

A BI System must be configured in the portal system landscape and the connection test for the Web Application Server (WAS) and for the connector must be successful.

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

This chapter describes how to create a callable object, provided that the BI system is properly configured in the portal system landscape.

Prerequisites

The settings for the BI System within SAP Enterprise Portal must be made in advance. In most cases these settings are already defined, so you should not need to deal with them. The following steps describe the settings that need to be made if an error occurs and you need to check the configuration.

1. Define the BI System in the portal system landscape (System Administration → System Configuration).

   Fill the Connector properties with the appropriate values.

2. Define the correct values for the WAS properties.
3. Add an Alias to the system.

4. Define a user mapping for this alias (User Administration → Identity Management).

**Approaches to Building a Model**

You can choose the top-down approach to create the process, block, and action and then insert a new callable object; alternatively you can use the bottom-up approach to start with the callable object without having any other model item.

**Top-Down Approach**

In this case you create all the design time objects (process, block, and action) that will make use of this callable object beforehand. For further details on this approach see [1].

1. Choose (Create New) to embed a new callable object in the existing Action.
**Bottom-Up Approach**

In this case you create the callable object first and insert it in the actions and blocks you create later.

1. In the contextual panel *(You Can)*, choose *Create Callable Object* to start the Callable Object design time.

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**Create a Callable Object of Type BI Application in Guided Procedures Design Time**

2. Select *BI Application* from the *Type* list.
3. Enter the basic data for this callable object:
   - **Name**, for example **BIQuery CO**
   - **Description**
   - **Language**
   - Define a location for the callable object (**Folder**)

4. Choose **Next**.

5. On the **Define Object** screen, choose the BI System configured in the portal system landscape.
   
   In the **System** dropdown box, select the configured BI System.
6. Select type *Query*.

7. Enter the name of the query to be executed by this callable object at runtime.

Choose *Next*.
8. The Define Input screen appears.

The query contains input parameters to be used as a filter that defines the initial state. Table Query / Template Parameter shows some standard options.

In the example, choose Filter by Distribution Channel.

9. Choose Transfer.

10. The parameter type specifies the possible format of the parameter, for example an interval or a single value.

Open the dropdown box in the Parameter Type field and select Single Value, then choose Next.
11. On the Set Configuration screen you can define additional technical options.

- Option Show Documents defines whether documents are displayed in the query.
- If option Accessibility Mode is selected, the Query (or Web) Application starts in this mode.
- Option URL Appendix allows you to add commands to the Query (or Web) Application as described in the BI documentation.

Choose Next as we do not need these options in this example.

12. Choose Finish and Open.

13. Open the Test tab page to display the testing dialog at the bottom of the page.
14. Enter any input parameter(s).

In the example, you want to filter the query result by distribution channel 01.

To start the test, choose *Execute*.

15. The filtered query result is displayed in another browser window.

At runtime, the result appears in the same browser window.

16. Close the window containing the result of the query and choose *Complete Step*.

17. Upon normal completion, the result is: *Completed successfully*.

You can repeat the test by choosing *Start Over*. 
18. You can activate your callable object by choosing 🌟 (Activate) or implicitly by activating the process that encapsulates this CO.