Creating a Callable Object in Group: Data Forms
## 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>
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Scenario
The predefined callable objects contained by the Data Forms group can be used to get information from the user of the Guided Procedures and store it into the context of the running GP process or to display some information stored in the context of the Guided Procedure.

Introduction
The Data Forms group contains the following callable objects:

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data input form</td>
<td>Retrieve information from the processor/user of the GP action containing this callable object.</td>
</tr>
<tr>
<td>Data display form</td>
<td>Display information to the user.</td>
</tr>
<tr>
<td>Data display and acknowledgement</td>
<td>Display information and get acknowledgement from the processor/user of the GP action.</td>
</tr>
<tr>
<td>Input</td>
<td>Display information and get information at the same time in the same dialog.</td>
</tr>
</tbody>
</table>

Table 1: CO Types in the Data Forms Group

Applicable Releases
This tutorial is compatible with the following release: Beginning with SAP NetWeaver 2004s SPS06.

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 Data Input Form callable object
- create a Data Display Form callable object
- create a Data Display and Acknowledgement callable object
- create an Input callable object

How to Create a Data Input Callable Object

1. Log onto the Guided Procedures Design Time. Select Create Callable Object.
2. Expand the Data Forms submenu.

3. Select Data input form.

4. Enter a unique name and a description for the callable object to be created. Specify the Original Language and Folder, if needed.

   - Original Language: English
   - Folder: English

   Click Choose to select an existing folders or create a new folder in which to store your callable object. Click Next.
5. Define the output parameters for the callable object in order to specify what type of information will be requested by the user of the GP process at runtime. As a default the callable object contains no parameters. Click Insert New... to add a new output parameter.

6. Specify the name of the new output parameter in the first field of the created row. The name of the parameter is used to consolidate the parameters at block level of the GP process. Specify the technical name of the parameter. This name should be unique and used internally by the GP process. Optionally you can specify a namespace. Select the type of the parameter from the dropdown list. Specify if the parameter is a list and if it is mandatory. If the parameter is mandatory, the user of the GP process must enter a value for that parameter; otherwise the action containing this callable object cannot be performed.

7. Repeat steps 5-6 to specify additional output parameters.

8. (Optional) If you create an output parameter with type Structure and then select the row of the created parameter, the Insert Child... button will be enabled. Click it to specify the member fields of the structure. The structures can be nested.
9. To insert more nested parameters, mark the output parameter of type “structure” again and click Insert Child....

10. Click Next.

11. Click Finish and Open or Finish.

12. (Optional) After choosing Finish and Open, the created callable object is opened and you can test it and/or modify it before activating it. Choose the Test tab of the callable object.

13. Enter test data into the fields of the input form. The mandatory fields are marked with a red asterisk (*).
14. Specify the list parameters by clicking Add Row and expanding the created row. Click  
Submit.
You can interrupt the execution of the callable object at any time by clicking  
Cancel Execution.

15. If the test was successful, the following dialog appears. You can repeat the test by clicking  
Start Over.
How to Create a Data Display Callable Object

1. Log onto the Guided Procedures Design Time. Choose Create Callable Object.

2. Expand the Data Forms submenu.
3. Choose **Data display form**.

4. Enter a unique name and a description for the callable object to be created.
   Specify the **Original Language** and **Folder**, if needed.
   
   | Original Language: | English | German |
   | Folder: | English |

   Click **Choose** to select an existing folder or create a new one in which to store your callable object. Click **Next**.

5. Define the input parameters for the callable object in order to specify what type of information will be displayed to the user of the GP process at runtime.
   As a default the callable object contains no parameters. Click **Insert New** to add a new input parameter.

6. Specify the name of the new input parameter in the first field of the created row. The name of the parameter is used to consolidate the parameters at block level of the GP process.
   Specify the technical name of the parameter. This name must be unique and used internally by the GP process.
   Optionally you can specify a namespace.
   Select the type of the parameter from the dropdown list.
   Specify if the parameter is a list or if it is mandatory.
7. Repeat steps 5-6 to specify additional input parameters. For a detailed description of the structures, see step 8 of section 0. Click **Next >**.

8. Click **Finish and Open** or **Finish**.

9. (Optional) After choosing **Finish and Open**, the created callable object is opened and you can test and/or modify it before activation. Choose the **Test** tab of the callable object.
10. Enter test data into the fields of the **Input Parameters** section. The mandatory fields are marked with a red asterisk (*). Click **Execute**.

11. The specified parameters are displayed. Click **OK**. You can interrupt the execution of the callable object at any time by clicking **Cancel Execution**.

12. If the test was successful, the following dialog appears. You can repeat the test by choosing **Start Over**.
How to Create a Data Display and Acknowledgement Callable Object

Description of the Scenario

1. Log onto the Guided Procedures Design Time. Choose **Create Callable Object**.

2. Expand the **Data Forms** submenu.
3. Choose **Data display and acknowledgement**.

4. Enter a unique name and a description for the callable object to be created. Specify the **Original Language** and **Folder**, if needed.

   - **Original Language**: *English*
   - **Folder**: *English*  

   With **Choose**, you can select an existing folder or create a new one in which to store your callable object. Click **Next**.

5. Define the input parameters for the callable object in order to specify what type of information will be displayed to the user of the GP process at runtime. As a default, the callable object contains no parameters. Click **Insert New** to add a new input parameter.

6. Specify the name of the new input parameter in the first field of the created row. The name of the parameter is used to consolidate the parameters at block level of the GP process. Specify the technical name of the parameter. This name must be unique and used internally by the GP process. Optionally, you can specify a namespace. Select the type of the parameter from the dropdown list. Specify if the parameter is a list or if it is mandatory.

   - **List Value required**: [ ] [ ]
7. Repeat steps 5-6 to specify additional input parameters. For a detailed description of the structures, see step 8 of section 0. Click [Next »].

8. Specify the recipient of the e-mail sent as acknowledgement and the e-mail template from which the email will be generated.

For detailed information about the e-mail templates see Error! Reference source not found.. Click [Next »].

You can define the following settings in the Recipients dropdown list:

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiator</td>
<td>Notification e-mail will be sent to the initiator of the process</td>
</tr>
<tr>
<td>Owner</td>
<td>Notification e-mail will be sent to the owner of the process</td>
</tr>
<tr>
<td>Contributor</td>
<td>Notification e-mail will be sent to all contributors involved into this process</td>
</tr>
<tr>
<td>Processor</td>
<td>Notification e-mail will be sent to the processors of the current action</td>
</tr>
<tr>
<td>Administrator</td>
<td>Notification e-mail will be sent to the administrator of the process</td>
</tr>
<tr>
<td>Overseer</td>
<td>Notification e-mail will be sent to the overseer of the process</td>
</tr>
</tbody>
</table>
9. Click **Finish and Open** or **Finish**.

10. (Optional) After choosing **Finish and Open**, the created callable object is open and you can test and/or modify it before activation. Choose the **Test** tab of the callable object.

11. Enter test data in the fields of the **Input Parameters** section. The mandatory fields are marked with a red asterisk (*). Click **Execute**.
12. The specified parameters are displayed. Click **Acknowledge** or **Acknowledge & Notify**. You can interrupt the execution of the callable object at any time by clicking **Cancel Execution**.

13. a) If you selected **Acknowledge**, no e-mail is sent as acknowledgement.
b) If you selected **Acknowledge & Notify**, an e-mail is sent to the recipient specified in the configuration of the callable object. You can repeat the test by choosing **Start Over**.

How to Create a Input Callable Object

1. Log onto the Guided Procedures Design Time. Choose **Create Callable Object**.
2. Expand the **Data Forms** sub-menu.

### Create callable object

**Type**
- EI Application
- External Service
- Web Dynpro Application
- ABAP Web Dynpro Application
- Composite Application/Web Dynpro Component
- Composite Application Service
- Interactive Form
- SAP Transaction
- Portal View or Page
- Web Dynpro Component (GF Interface)
- Content Package
- HMI Resource
- Background Execution
- Business Server Page (BSP)
- Decision Dialog
- Web Pages

**Data Forms**
- Process Control
- User Management
- Miscellaneous

3. Choose **Input**.

4. Enter the unique name and a description of the callable object to be created. Specify the **Original Language** and **Folder**, if needed.

   - **Original Language**: English
   - **Folder**: English

   With **Choose**, you can select an existing folder or create a new one in which to store your callable object. Click **Next**.
5. Define the input parameters for the callable object in order to specify what type of information will be requested by the user of the GP process at runtime. As a default the callable object contains no parameters. Click to add a new output parameter.

6. Specify the name of the new input parameter in the first field of the created row. The name of the parameter is used to consolidate the parameters at block level of the GP process. Specify the technical name of the parameter. This name must be unique and used internally by the GP process. Optionally you can specify a namespace. Select the type of the parameter from the dropdown list. Specify if the parameter is a list or if it is mandatory. If the parameter is mandatory, the user of the GP process must enter a value for that parameter; otherwise the action containing this callable object cannot be performed.

7. Repeat steps 5-6 to specify additional input parameters.

8. Define the output parameters for the callable object in order to specify what type of information will be requested by the user of the GP process at runtime. As a default the callable object contains no parameters. Click to add a new output parameter.
9. Repeat step 8 to specify additional output parameters.

10. Click Finish and Open or Finish.

11. (Optional) After choosing Finish and Open, the created callable object is opened and you can test and/or modify it before activation. Choose the Test tab of the callable object.

12. Enter test data in the fields of the Input Parameters section. Click Execute.
13. The specified input parameters are displayed. Enter test data in the fields of the **Output Parameters** section and click [Submit]. You can interrupt the execution of the callable object at any time by clicking [Cancel Execution].

14. The specified output parameters are displayed. You can repeat the test with [Start Over].