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Composer Help

Subroutine Block

Subroutine Block

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Use the Subroutine block to create reusable sub-modules (sub-workflows). You can invoke external SCXML documents or use a sub-workflow created using Composer. The input and output parameters names will be automatically picked from the sub-workflow created by Composer. Composer supports passing variables between a workflow and sub-workflow.

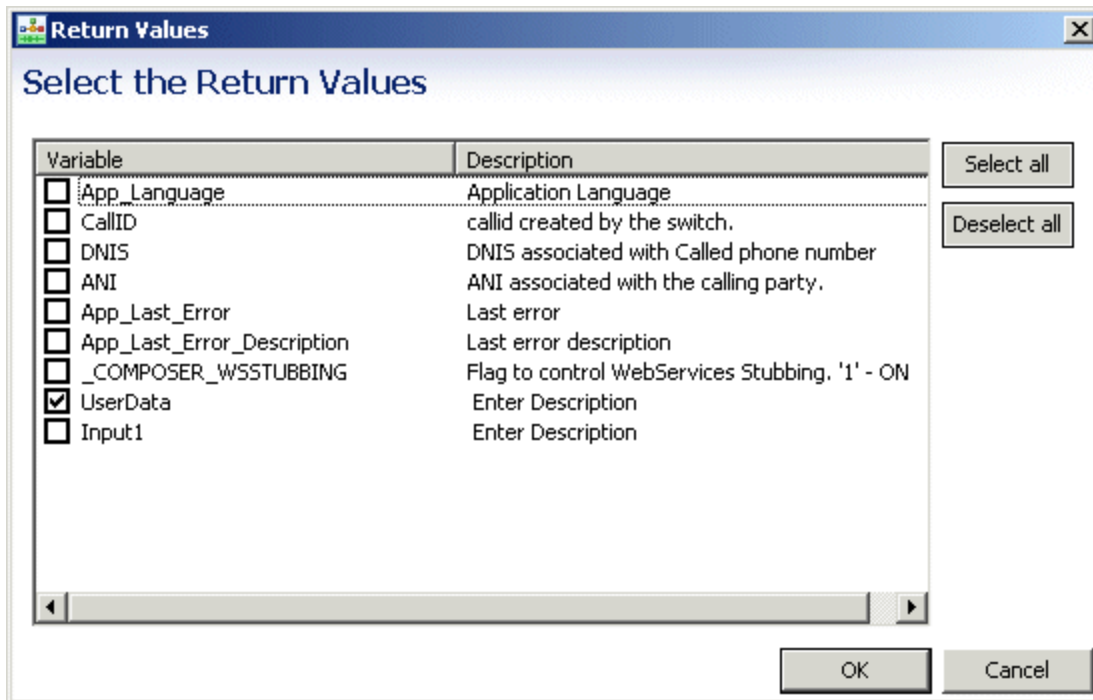
Also see [Using Composer Shared Subroutines](#).

Creating a Subroutine Using A Sub-Workflow

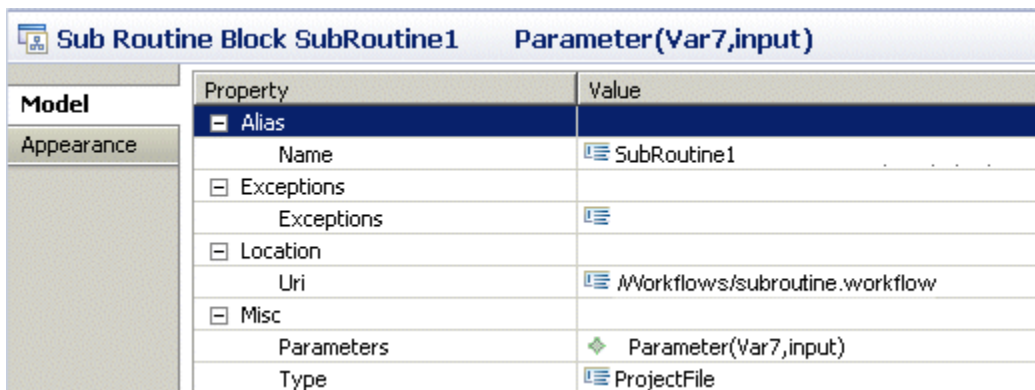
1. Create the main workflow diagram file using **New > Other > Composer > Workflow diagram > Main Workflow**.
2. After designing the main workflow diagram, create the sub-workflow diagram using **New > Other > Composer > Workflow diagram > Sub-Workflow**.
3. In the Entry Block of the sub-workflow diagram, enter the parameters, which will be passed as input from the main to the sub-workflow diagram.

Variable Name	Type	Value	Description
App_Language	System	en-US	Application Language
CallID	System	_genesys.ixn.interactions[0].voice.callid	callid created by the switch
DNIS	System	_genesys.ixn.interactions[0].voice.dnis	DNIS associated with Call...
ANI	System	_genesys.ixn.interactions[0].voice.ani	ANI associated with the c...
App_Last_Error	System	undefined	Last error
App_Last_Error_Description	System	undefined	Last error description
_COMPOSER_WSSTUBBING	User	0	Flag to control WebServic...
Input1	Input	Enter Value	Enter Description

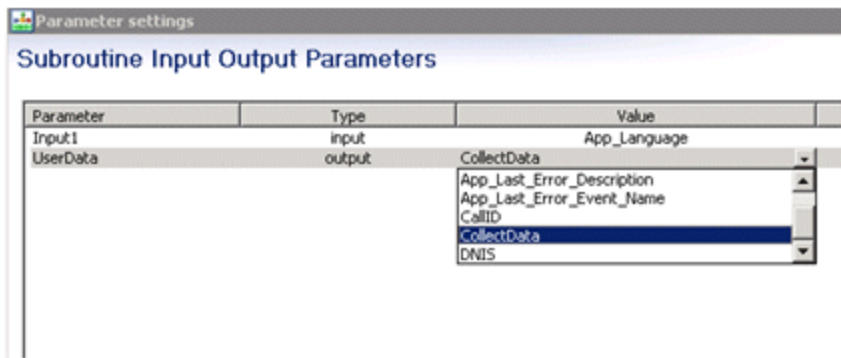
4. Design the sub-workflow diagram.
5. In the Exit block of the sub-workflow diagram, select the variables, which will be returned back to the called main diagram.



6. In the main diagram, use the Subroutine Block to call the newly created sub-workflow and the input and output parameters. For input/output synchronization, use the Uri property of the Subroutine block to select the sub-workflow diagram.



Now the Parameters property can be used for the Parameter Synchronization. The main diagram implicitly parses the sub-workflow parameters and lists them in the Parameter settings dialog as shown below.



7. Define the value for the input type variables and collect the returning output type variables in a variable.

The Subroutine block has the following properties:

Name Property

Find this property's details under [Common Properties](#).

Block Notes Property

Find this property's details under [Common Properties](#).

Exceptions Property

Find this property's details under [Common Properties](#).


Uri Property

The Uri property specifies the destination (URL or Composer Project) depending on the value of the Type property. To set a URL destination for the Uri property (**Type** property is set to **URL**):

1. Select the **Uri** row in the block's property table.
2. In the **Value** field, type a valid URL. Variables should not be selected as all subroutines are fetched by Orchestration Server before it starts executing the application at which time variables do not exist.

To set a Project destination for the Uri property (**Type** property is set to ProjectFile):

1. Click the **Uri** row in the block's property table.

2. Click the  button to open the Uri dialog box.
3. Select a workflow in the list.
4. Click **OK** to close the dialog box.

Type Property

The Type property sets the type of the invoked subroutine. There are two options:

- **URL**--The invoked sub-workflow can be found at the location specified in the Uri property.
- **ProjectFile**--The invoked sub-workflow is another workflow in the Project.

To select a value for the Type property:

1. Select the **Type** row in the block's property table.
2. In the **Value** field, select URL or ProjectFile from the drop-down list.

Condition Property

Find this property's details under [Common Properties](#).

Logging Details Property

Find this property's details under [Common Properties](#).

Log Level Property

Find this property's details under [Common Properties](#).


Enable Status Property

Find this property's details under [Common Properties](#).


Parameters Property

Use the Parameters property to specify parameters to pass to the invoked sub-workflow. To specify

parameters:

1. The URI field must contain a value.
2. Click the **Parameters** row under **Value**.
3. Click the  button to open the Subroutine Input Output Parameters dialog box.
4. Click the **Add** button to enter parameter details.
5. In the Parameter field, accept the default name or change it.
6. From the Type drop-down list, select input, output, or inout:

input	Input parameters are variables submitted to the sub-workflow.
out	Output parameters are variables that the sub-workflow returns and will be reassigned back to the current workflow.
inout	Inout parameters are parameters that act as both input and output.

1. In the **Value** drop-down list, select from among the variables shown, type your own expression, or click the  button to use **Skill Expression Builder**.
2. In the **Definition** field, type a description for this parameter.
3. Click **Add** again to enter another parameter, or click **OK** to finish.

Delete Button To delete a parameter:

1. Select an entry from the list.
2. Click **Delete**.