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Composer Help

Entry Block Routing

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Use the Entry block to:

- Set global error (exception) handlers.
- Define global **variables for the workflow**.

All workflow diagrams must start with an Entry block, which cannot have any incoming connections. The Entry block is used as the entry point for a main workflow or subworkflow (subroutine). Composer throws a validation message if the Entry block is missing or more than one is added. The Entry block defines the initial entry state for interactions, all global state variables, and the datamodel. In the SCXML code for the workflow, all subsequent blocks are added as child states inside the Entry block's state. This allows the event handlers in the Entry block to act as global event handlers for the entire workflow. Any events not caught at the local level (for individual blocks) are caught at the global level by the Event handlers in the Entry block. The Entry block global variables define the State for the application and are maintained as the <datamodel> in the SCXML engine. The **Back End** block provides a **Pass State property** to pass state information to the Server side. An Entry block user-defined variable can be used to access the results of a Stored Procedure call specified in a **DB Data block** for both voice and routing applications. Note: **Outlinks** starting from the Entry block cannot be renamed or assigned a name through the Properties view. The Entry block has the following properties:

Name Property



Find this property's details under **Common Properties**.

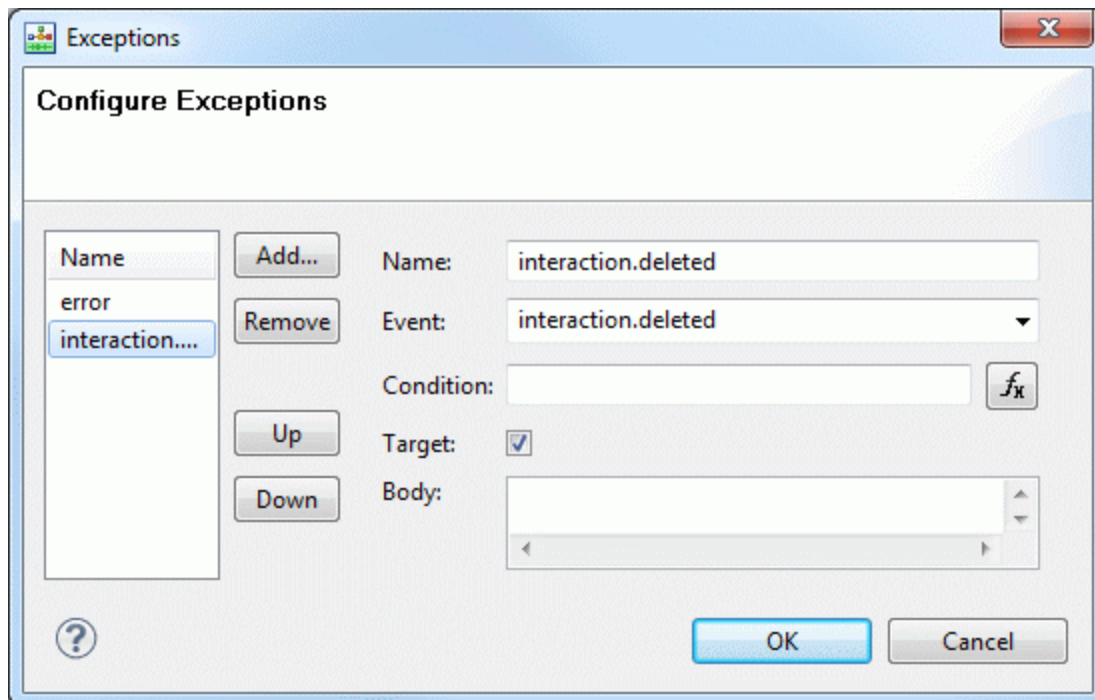
Block Notes Property

Find this property's details under **Common Properties**.

Exceptions Property

Use this property to define which exceptions or events to handle at the Entry block. This block contributes a state in the generated SCXML code that is a parent state for all blocks in a Workflow. This allows an event received for any of the workflow blocks to be handled at the Entry block.

1. Click opposite **Exceptions** under **Value**. This brings up the  button.
2. Click the  button to bring up the Exceptions dialog box.



The Entry block `interaction.deleted` event is updated to have guard conditions:

- Current interaction deletion.
- The `interaction.deleted` event is from an interaction deletion and not from a detach operation.

```
_event.data.interactionid == system.InteractionID && (!_event.data.resultof ||
_event.data.resultof == 'deletion')
```

3. Click **Add** to add new exceptions to the list of handled exceptions.
4. For each exception, specify a unique name and an exception event.


- **Name**--Composer uses the name of the exception to label the output.
- **Event**--Use to select the specific exception event.
- **Condition**--The guard condition for this exception, which you define in [Expression Builder](#). The exception is selected only if the condition evaluates to true.
- **Target**--If true, an exception port is created and the user can connect it to the block this exception will transition to when it is executed. If false, the exception will not cause a change in the state configuration when it is executed. The executable content contained in the exception will still be executed, so the exception will function as a simple exception event handler.
- **Body**--(optional) Executable scxml code that will be executed when this event is received and any specified condition evaluates to true. This code is executed before any other blocks that are connected as this exception's event handlers.

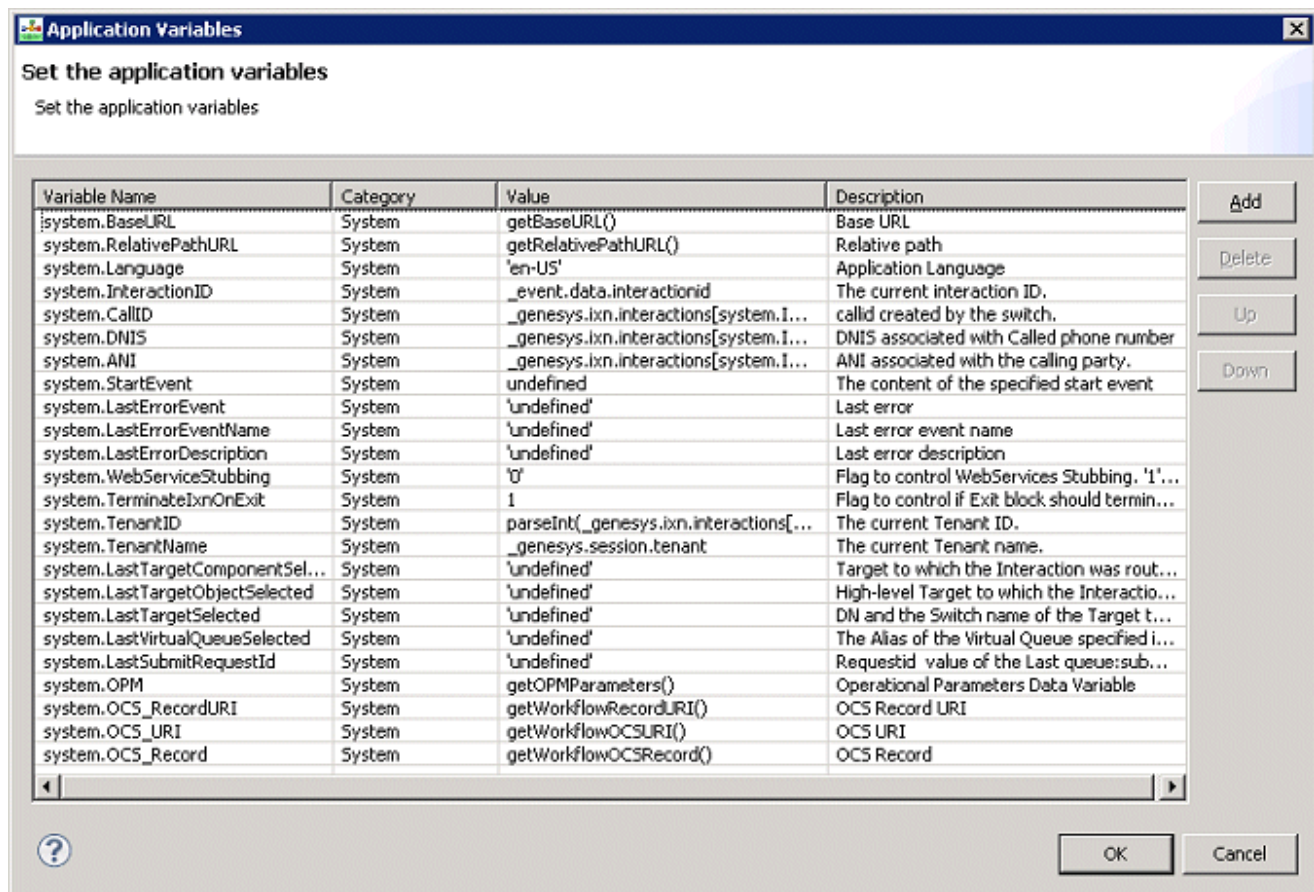
5. When done with the dialog box, click **OK**.

You can also find general information on the Exceptions property under [Common Properties](#).

Variables Property

You have the option of defining **workflow variables** in the Entry block (**Project variables** are defined outside the Entry block via the toolbar). Variable descriptions entered in the Entry block are visible when selecting the variable for use in other blocks, such as the **Assign** block. Composer supports passing variables between a workflow and **sub-workflow**. To view variables:

1. In the Properties tab, click opposite Variables under Value to display the  button.
2. Click the button to open a dialog box for defining and initializing global variables for the entire SCXML document.



The Entry block lists all the variables associated with the workflow (referred to as global variables for the workflow). Composer supports the following types of variables for workflow diagrams in the Entry block:

- **Predefined system variables**, which cannot be deleted.
- User-defined variables local to the diagram file.
- Input variables, which are only used for Subroutines. These are user-defined and should be passed from the main diagram to the called Subroutine diagram file.

Also see:

- The **Column Names and Records Variable properties** used by the DB Data block.
- The **Variable Naming** section in the User Data block.

Important! When defining a variable name, the name:

- Must not start with a number or underscore.
- May consist of letters, numbers, or underscores.

When you define and initialize a variable that is expected to be played as a date later on in the workflow, define the value using the following format: `yyyymmdd`. Example: `MyDate=20090618`. You must use this format; Composer does not perform any conversions in this case. When you define and initialize a variable that is expected to be played as a time later on in the workflow, define a 12 hour-based value using the following format: `hhmmssa` or `hhmmssp`. Examples: `MyTime=115900a` or `MyTime=063700p`. Define a 24 hour-based value using the following format: `hhmmssh`. Example: `MyTime=192000h`. You must use this format; Composer does not perform any conversions in this case. **Default Application Variables** See the **Variables: Project and Workflow** topic. **Adding a New Variable** To add a new variable in the Application Variables dialog box:

1. Click **Add**. Composer add a row for variable and generates a temporary name and number; for example: `var7`.
2. Select the row and supply the **Name**, **Type**, **Value**, and **Description** fields.
3. Click OK.

Variable Name You can use the Variable name field for either of the following purposes:

- To enter the name of a new variable.
- To change the name of an existing variable. To do this, select an existing variable from the list of variables. The variable's name appears in the Variable box, and you can the change its value in the Value box.

Excluded Characters The Variable name field will not accept the following special characters:

- less-than sign (<)
- greater-than sign (>)
- double quotation mark (")
- apostrophe (')
- asterisk (*)
- ampersand (&)
- pound (#)
- percentage (%)
- semi colon (;)
- question mark (?)
- period (.)
- all characters that are considered ECMAScript operators; example: `"-"`

The variable Value field will not accept the following special characters:

- less-than sign (<)
- greater-than sign (>)
- double quotation mark (")
- apostrophe (')
- ampersand (&)
- plus sign (+)
- minus sign (-)
- asterisk (*)
- percentage (%)

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](#).