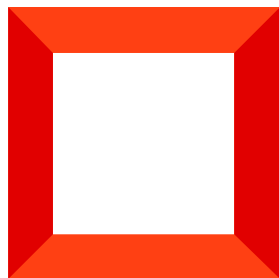
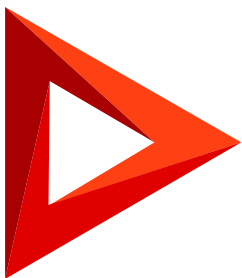


Sub-processes

Use sub-processes

Version 7.17



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Use sub-processes

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Sub-processes can be used to run a process as a part of another process.

Add a sub-process

Example. A sale process (Fig. 1) must have a subordinate process for conducting a meeting with a customer (Fig. 2).

Fig. 1 Sale process

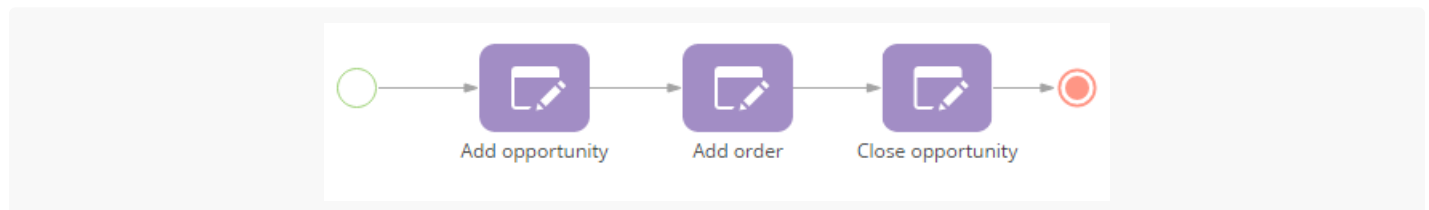
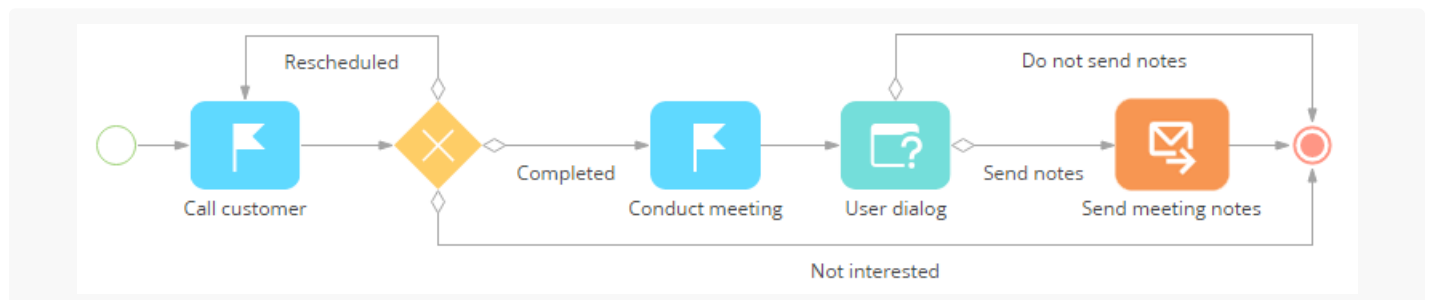


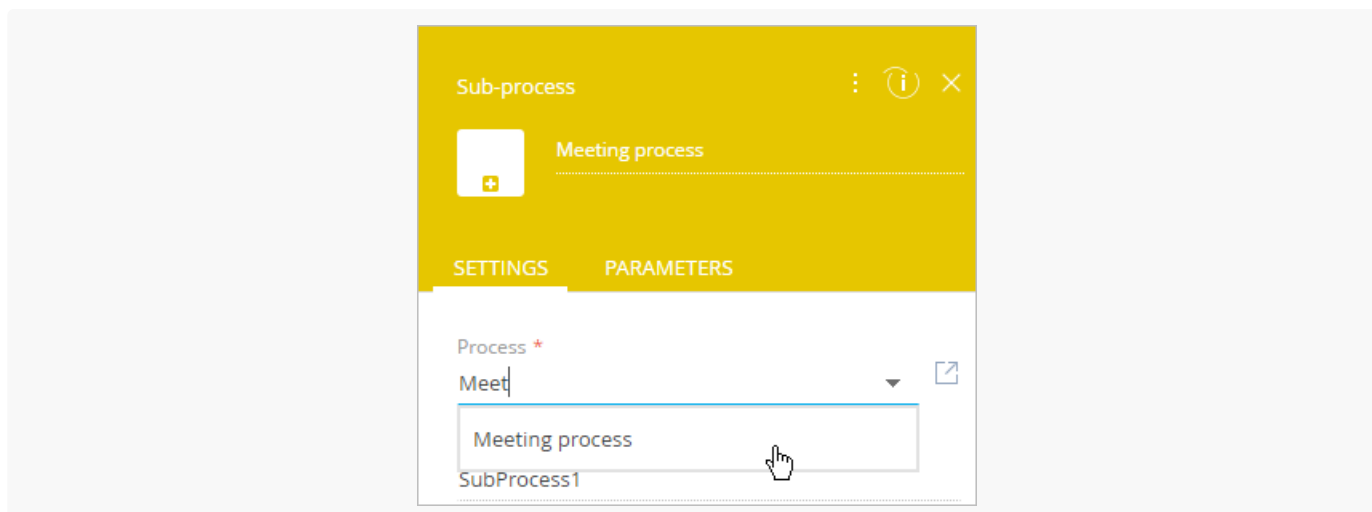
Fig. 2 Customer meeting process



Adding a meeting sub-process (Fig. 1) to the opportunity process.

1. Place the [*Sub-process*] element on the diagram after the “Add opportunity” element.
2. On the element setup area, in the [*Process*] field, select the process that must be run on executing this element (Fig. 3).

Fig. 3 Selecting a process to be run as a sub-process



3. Save the process diagram.

As a result, when the parent opportunity process is run, the items preceding the sub-process will be completed first, then the sub-process (meeting with client) will be started. After the sub-process is completed, the parent process will continue (Fig. 4).

Fig. 4 Sale process with enabled meeting subprocess



To make the parent process execution depend on the subprocess result, [add parameters](#) that will be used for creating outgoing conditional flows of the sub-process element.

Obtain subprocess execution result

The parent process can pass parameter values to its sub-processes and get subprocess parameter values. Corresponding custom parameters must be added both to the parent process and the sub-process.

Example. If the meeting result is that the customer showed interest, then a new order must be created in the parent process. If the customer is not interested, then the parent process must end.

Note. The procedure for adding an order via the [*Open edit page*] element is covered in the previous article. The contract page settings are similar to those of a new document page.

To pass parameter values between the processes, first add corresponding custom parameters to both processes.

Add a parameter

To add a parameter to the meeting process (Fig. 2)

1. Open the “Meeting with customer” process for editing and double-click on the working area of the Process Designer.

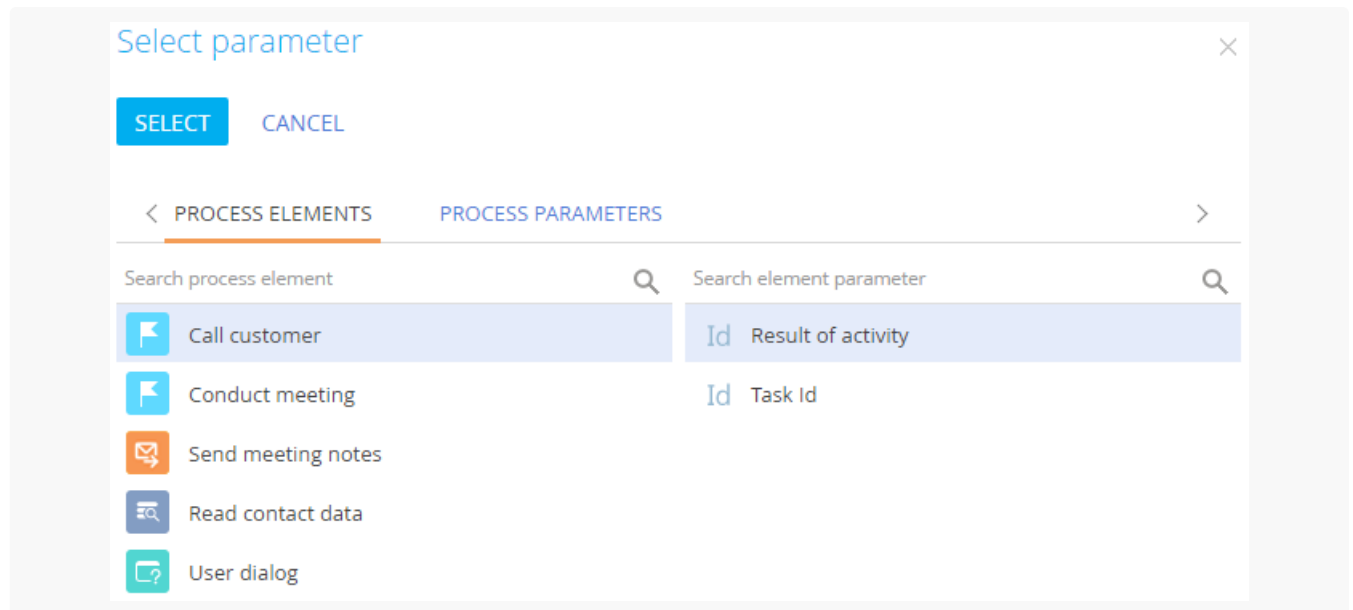
Note. You can open the subprocess diagram from the [*Sub-process*] element setup area by clicking the button next to the [*Process*] field.

2. In the [*Actions*] menu of the Process Designer, select [*Process parameters*] command.
3. Click the [*Add parameter*] button and select the [*Lookup*] menu item.
4. Populate process parameter properties (Fig. 5):

Fig. 5 The properties for the process parameter

1. Enter the parameter name.
2. In the [*Lookup*] field, select the [*Activity result*] lookup.
3. Specify the value source of the parameter.
 - a. Click the [*Value*] field and select [*Process parameter*] in the value menu.
 - b. Select the [*Activity result*] parameter of the [*Call customer*] element as a source of the process parameter value (Fig. 6).

Fig. 6 Setting up process parameter value source



4. Click the [*Select*] button of the parameter value window.
5. Save the process parameter.
6. Save the process.

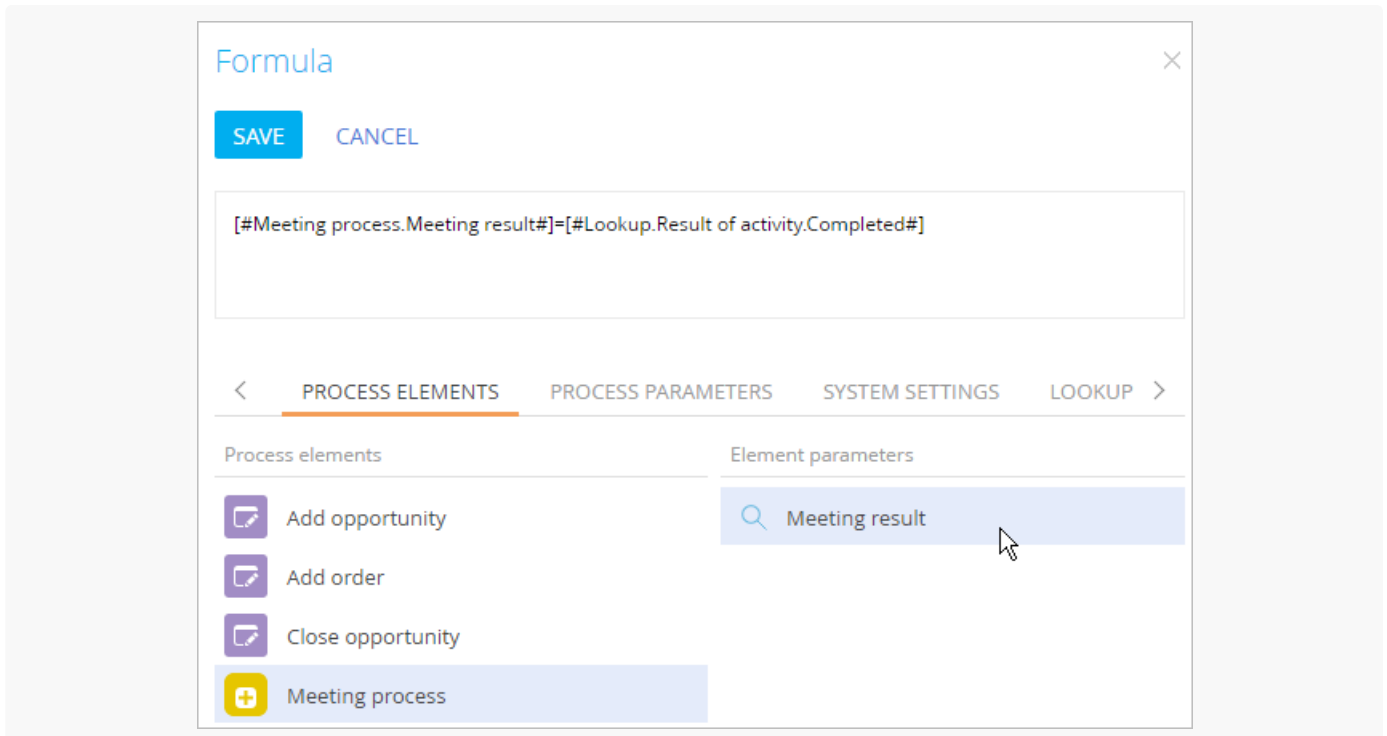
As a result, whenever the [*Call customer*] element is completed, its result will be passed to the process parameter.

Obtain results

To specify conditions for the conditional flow that originated from the [*Sub-process*] element in the parent process (Fig. 2):

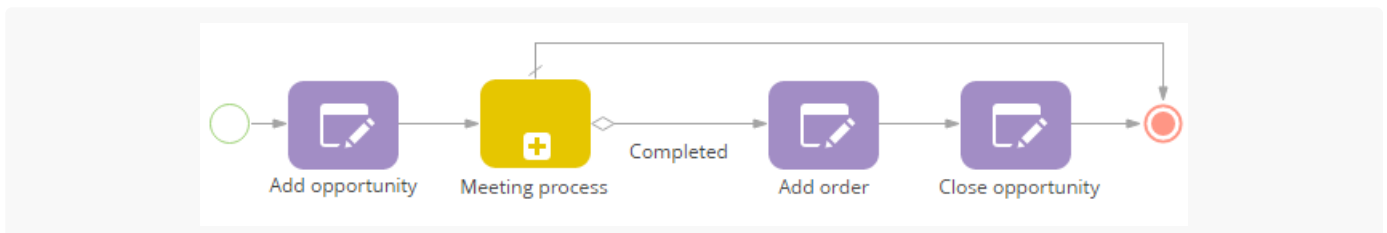
1. Open the parent process where the end parameter of another sub-process should be handled.
2. Add conditional flow from the [*Sub-process*] element to the [*Open edit page*] element that open a new document page.
3. Click the [*Condition to move down the flow*] field.
4. In the parameter value window, specify the condition for moving down the flow that compares the sub-process resulting parameter with the expected value (Fig. 7):

Fig. 7 Condition for a conditional flow



- a. On the [*Process elements*] tab, select [*Meeting with customer*].
 - b. Select the [*Conduct meeting*] process parameter.
 - c. In the formula area, enter “==”.
 - d. On the [*Lookup*] tab, select [*Result of activity*] lookup from the dropdown list.
 - e. Select [*Completed*].
5. Save the changes in the parameter value window.
 6. Add a default flow from the subprocess element to the end process event element (Fig. 8).

Fig. 8 The meeting sub-process on the parent process diagram



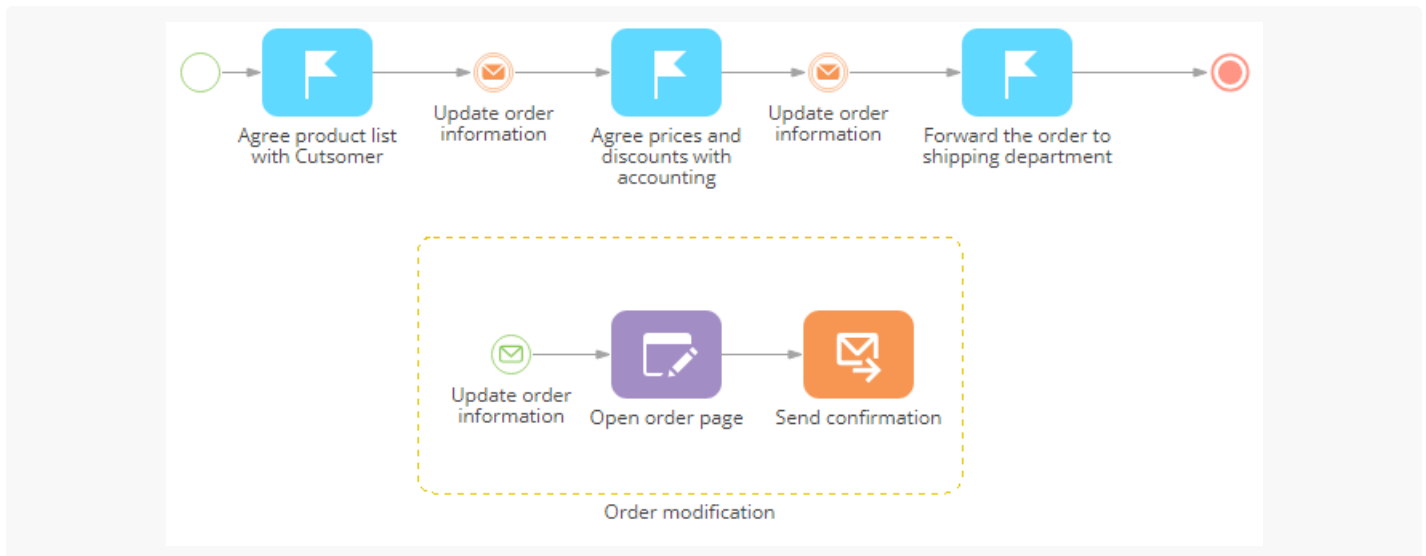
7. Save the process diagram.

Use an event sub-process

You can set up business processes containing task combinations that can be repeated several times during the process execution, when certain events occur. To arrange such task combinations in a separate process flow, use the [*Event sub-process*] element in your diagram.

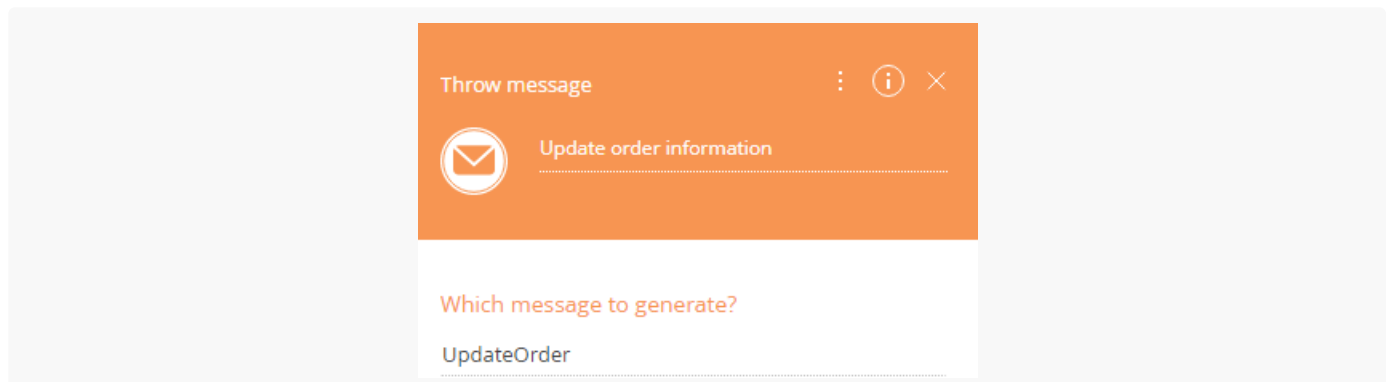
For example, within a sale process, order information must be updated at every stage of negotiations (Fig. 9).

Fig. 9 Sale process containing an “Order modification” event sub-process

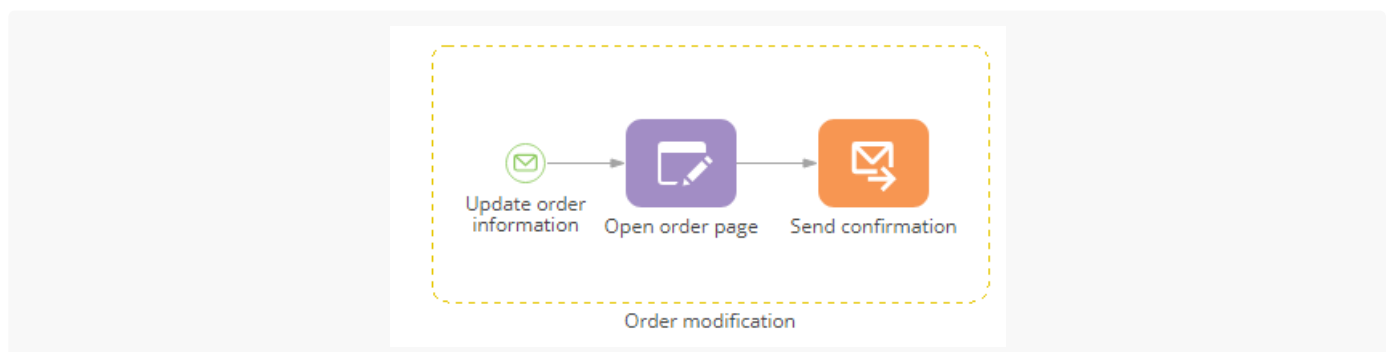


To set up a process containing an “Order modification” event sub-process:

1. Add a [\[Throw message \] intermediate event](#) to the process diagram after the corresponding process action. Populate the [*Which message to generate?*] field with the message name that will serve a trigger of your event sub-process, e.g. “UpdateOrder” (Fig. 10).

Fig. 10 Populating the [*Which message to generate?*] field of the [*Throw message*] event in the current process

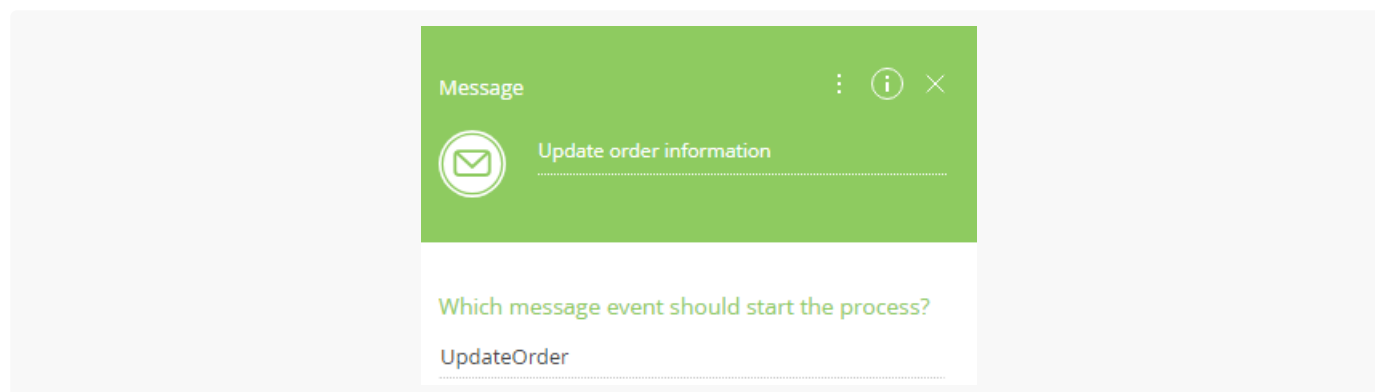
2. Add the [\[Event sub-process \] element](#) to the diagram and set up the elements on it (Fig. 11):

Fig. 11 [*Event sub-process*] element

1. Add a [\[Message \] start event](#) in the [*Event sub-process*] area on the diagram, as the initial event of your

event sub-process. Make sure that the value in its [*Which message event should start the process?*] field matches the value of the message generated by the corresponding [*Throw message*] event (Fig. 12).

Fig. 12 Populating the [*Which message event should start the process?*] field of the [*Message*] start event in the event sub-process area



- a. Add subprocess steps to the diagram For example, add an [\[Open edit page \]](#) element that opens the order page for the user and a [*Send email*] element to notify all involved parties that the order has been updated.
 - b. Connect the event sub-process elements with sequence flows.
2. Save the process diagram.

Note. The event sub-process will be triggered each time the [*Message*] start event receives a corresponding message generated during the execution of the current process. Running event sub-process will not interrupt the execution of the current process: the event sub-process elements will be performed as regular process elements in the order defined by the user.

As a result, the event sub-process will launch each time the [*Throw message*] intermediate event of the current process generates a corresponding message during the process execution. For example, an order modification sub-process will run whenever an order modification message is received within the process.