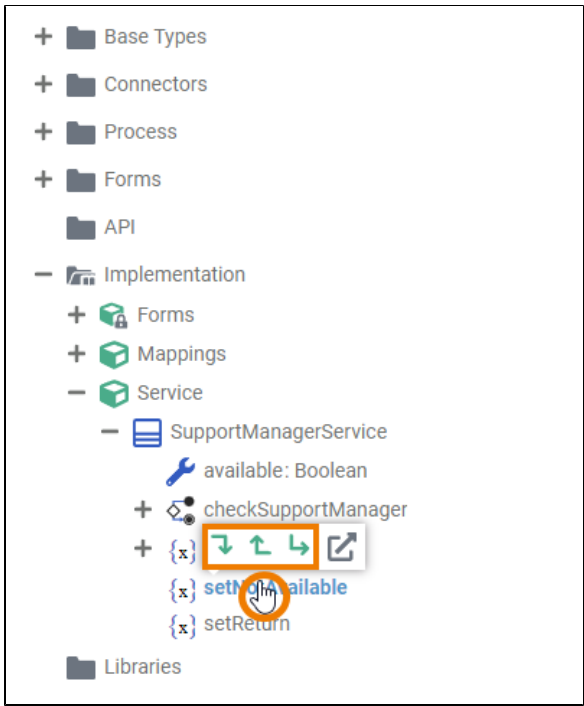


# Adding Parameters to Operations

You can add parameters to operations in the **Implementation** folder of the **Service Panel**.



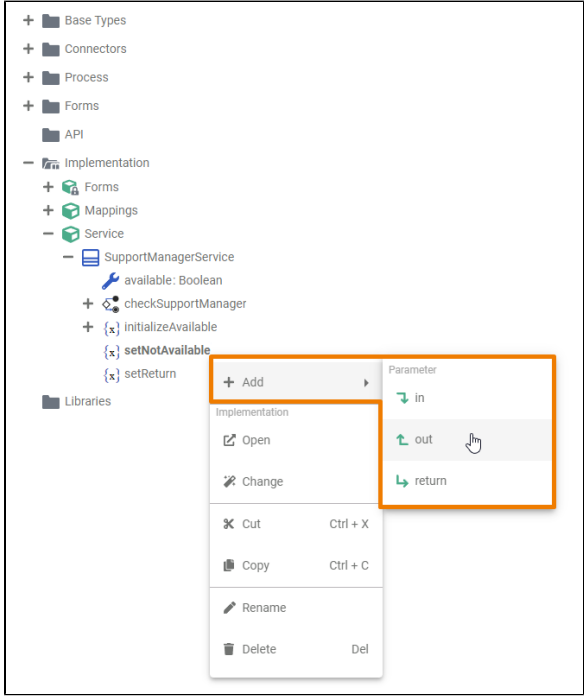
Use the **Quick Action** icons to add one or more parameters to an operation.

### On this Page:

- [Deleting Parameters](#)

### Related Pages:

- [Service Panel](#)
  - [Implementation](#)
- [Modeling Data Structures](#)
  - [Changing the Attributes of Data Model Elements](#)
- [Modeling Data Mapping](#)
  - [Mapping Element Attributes](#)
- [Modeling Activities](#)
  - [Changing the Attributes of Elements on the Activity Diagram](#)
- [Modeling Execution](#)
  - [Changing the Attributes of Execution Elements](#)



Alternatively, you can also use the **context menu** of the respective operation to add parameters to it.



For more information about what you can do with an operation via the quick actions and the associated context menu in the service panel, see [Modeling Data Structures > Operation](#).

You can add **in**, **out** and/or **return** parameters.

Type	Description
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<b>in</b>	<ul style="list-style-type: none"> <li>• Operations can have multiple input parameters.</li> <li>• Input parameters provide values to the operation. The operation caller must provide these values.</li> </ul>
<b>out</b>	<ul style="list-style-type: none"> <li>• Operations can have multiple output parameters.</li> <li>• An operation can have output parameters as well as a return parameter.</li> <li>• Output parameters receive values from the operation. These values are then available to the operation caller.</li> </ul>
<b>return</b>	<ul style="list-style-type: none"> <li>• An operation can have only one <b>return</b> parameter.</li> <li>• An operation can have output parameters as well as a return parameter.</li> <li>• A return parameter receives a value from the operation. This value is then available to the operation caller.</li> <li>• Operations with a return value can be used in Action Script in nested statements:  <pre>set result = calculate(compute(4));</pre> In this example, <b>calculate()</b> and <b>compute()</b> each return their result through a return parameter.</li> </ul>

# Add Parameter (out)

Using the name "return" will automatically create a return parameter.

Save

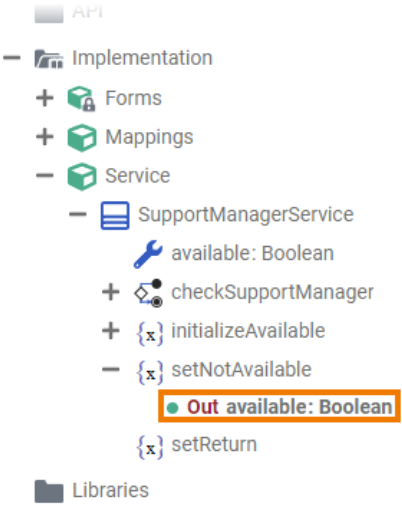
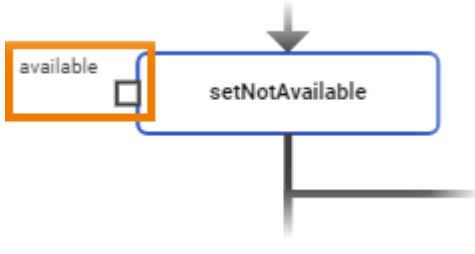
Cancel

When adding a parameter, a pop-up window opens where you need to enter a name for the parameter.

Click **Save** to create the new parameter.



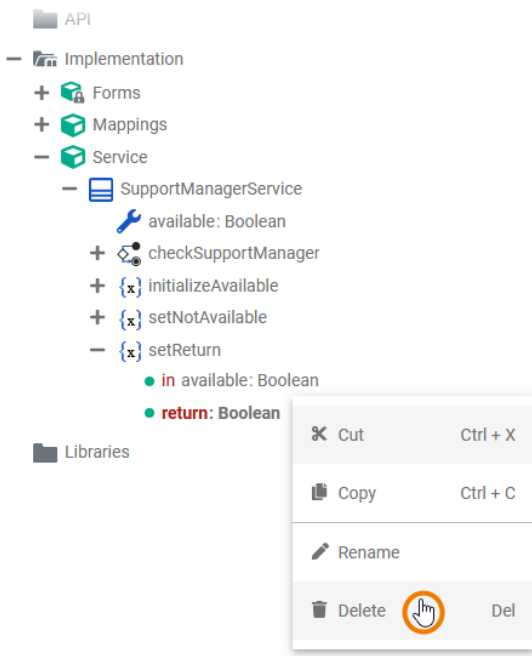
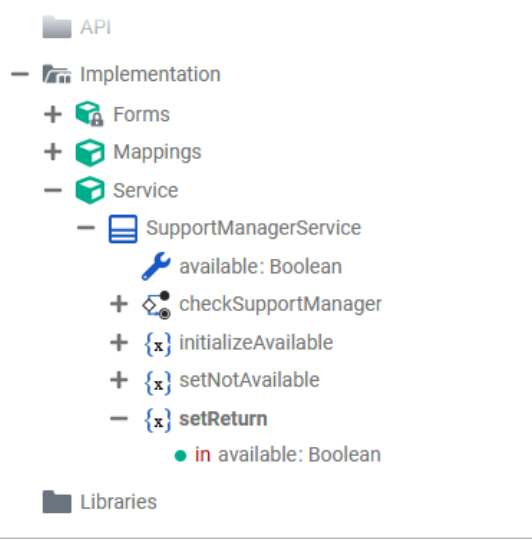
For more information on restrictions on element names, see [Adding Elements](#).

		<p>The parameter is added to the operation in the implementation folder of the service panel...</p>
		<p>...and also to the corresponding operation element in the particular diagram where the operation is used.</p>

<div data-bbox="157 138 730 716"><div>Attributes</div><div>Properties</div><div><div>Name</div><div>available</div></div><div><div>Description</div><div>Enter text</div><div></div></div><div><div>Type</div><div>Base Types.Boolean</div><div></div></div><div><div>Array</div><div><input type="checkbox"/></div></div><div><div>Direction</div><div>Out</div><div></div></div><div>+ Add Stereotype</div></div>	<p>To change name, type or direction of the parameter, select the parameter in the service panel and switch to the <b>Attribut</b> <b>es</b> panel.</p> <p>Refer to</p> <ul style="list-style-type: none"><li>• <a href="#">Changi</a> <a href="#">ng the</a> <a href="#">Attribut</a> <a href="#">es of</a> <a href="#">Data</a> <a href="#">Model</a> <a href="#">Elemen</a> <a href="#">ts</a></li><li>• <a href="#">Mappin</a> <a href="#">g</a> <a href="#">Elemen</a> <a href="#">t</a> <a href="#">Attribut</a> <a href="#">es</a></li><li>• <a href="#">Changi</a> <a href="#">ng the</a> <a href="#">Attribut</a> <a href="#">es of</a> <a href="#">Elemen</a> <a href="#">ts on</a> <a href="#">the</a> <a href="#">Activity</a> <a href="#">Diagram</a></li><li>• <a href="#">Changi</a> <a href="#">ng the</a> <a href="#">Attribut</a> <a href="#">es of</a> <a href="#">Executi</a> <a href="#">on</a> <a href="#">Elemen</a> <a href="#">ts</a></li></ul> <p>for more information on what you can do in the attributes panel.</p>
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## Deleting Parameters

You can delete parameters from an operation in the **Implementation** folder of the **Service Panel**.

		<p>You can delete a parameter in the implementation folder of the service panel using the <b>Delete</b> option of the context menu or the <b>Del</b> key.</p>
<div data-bbox="162 829 714 1071"><h3>Confirm Deletion</h3><p>Are you sure you want to delete parameter "return"?</p><div><span>Yes</span><span>Cancel</span></div></div>		<p>Confirm the security prompt in the pop-up window with <b>Yes</b> to delete the selected parameter from the operation.</p>
		<p>The parameter is deleted from the operation.</p>