

# Modeling BPMN

If you want to model your own microservice, you need to create a [Service](#) in the Explorer and a [BPMN model](#) in the service panel. After creation of your service, open it to access the service panel. Each service contains already a **Process** folder in the service panel to which you can add BPMN models.

## Adding a BPMN Model

### On this Page:

- [Adding a BPMN Model](#)
- [The BPMN Editor](#)
- [Attributes of a BPMN Model](#)

### BPMN\_Start\_Event\_Example

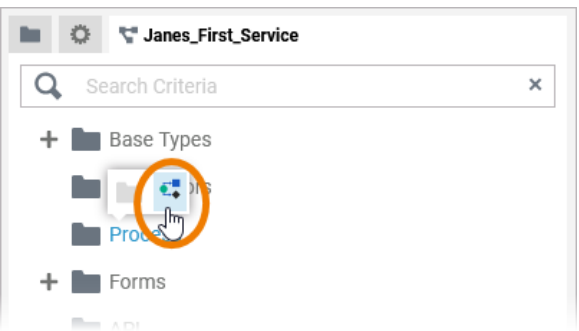


Click the icon to download a simple example model that shows what you can do with **Start Events** in **Scheer PAS Designer**.

Go to chapter [Drawing a Business Process](#) in the [PAS Designer Developer Guide](#) for more BPMN examples.

### Related Pages:

- [Working with the BPMN Editor](#)
- [Role-based Authorization Concept](#)
- [Working With the Explorer](#)
- [PAS Designer Developer Guide](#)
  - [Drawing a Business Process](#)
  - [Supported BPMN Elements](#)

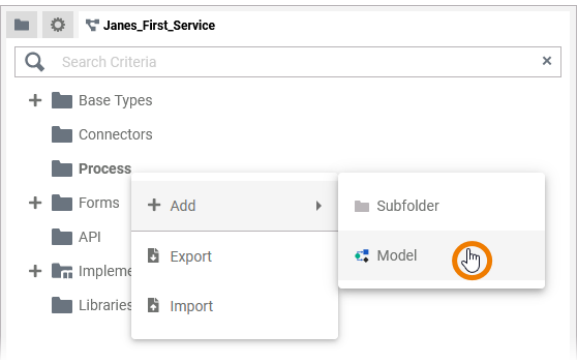


In the **Process** folder you can create your BPMN models. One service can contain several BPMN models.

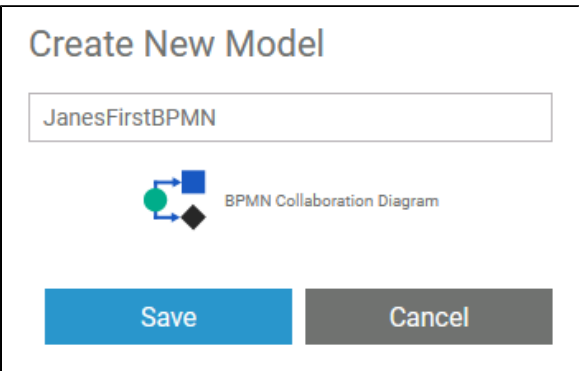
To create a model, hover over the **Process** folder to display the quick start icons and click



**Add Model**



Alternatively, you can open the context menu of a **Process** folder and select the option **Add Model**.



Enter a name for the BPMN model in the pop-up window **Create New Model**. Click **Save**.



**Restrictions on Element Names**

A BPMN model name must be unique within one service.

In addition, the following name restrictions apply to all service panel elements:

Element names ...

- .. must not be empty.

- ... must not contain spaces. Exception: Spaces are allowed in [operator](#) names.

- ... must not start with numbers.

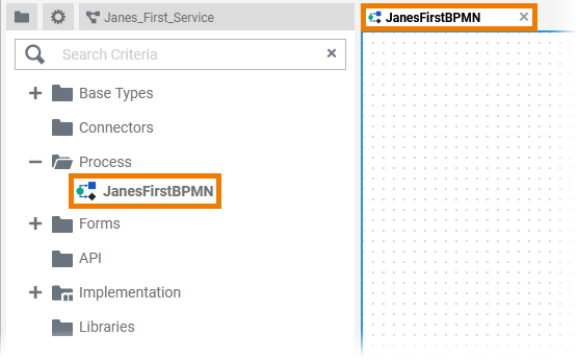

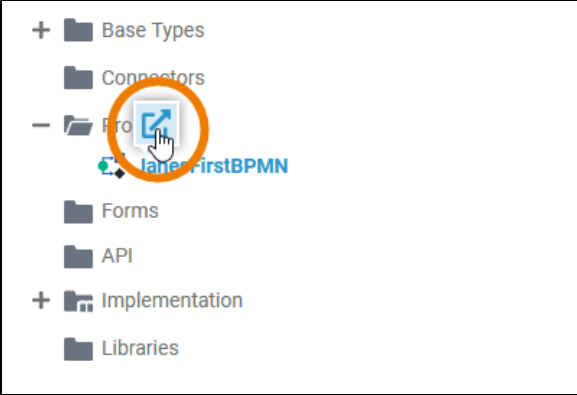

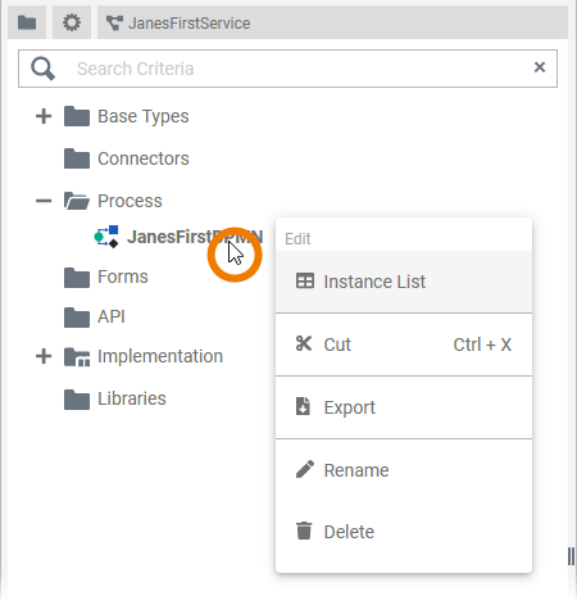

• . must not end with a period (.).

• . must not contain one of the following characters : < , > , : , = , / , \ , | , ? , \*

• Furthermore , t

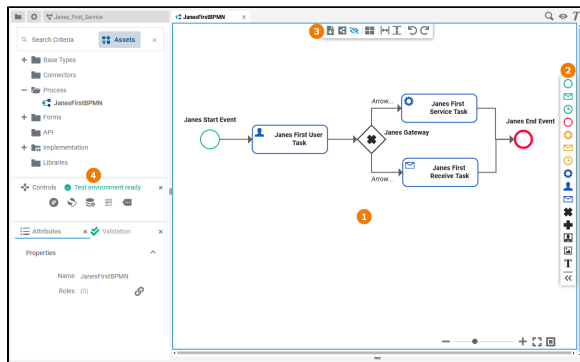
the following strings must not be used as element names: CON, PRN, AUX, NUL, COM1, COM2, COM3, COM4, COM5,

COM 6 , COM 7 , COM 8 , COM 9 , LPT 1 , LPT 2 , LPT 3 , LPT 4 , LPT 5 , LPT 6 , LPT 7 , LPT 8 , LPT 9.

 <p>The screenshot shows a software interface with a sidebar on the left containing a tree view of categories: Base Types, Connectors, Process, Forms, API, Implementation, and Libraries. The 'Process' category is expanded, and 'JanesFirstBPMN' is highlighted with an orange rectangle. At the top, a tab labeled 'JanesFirstBPMN' is also highlighted with an orange rectangle. The main area on the right is a grid.</p>	<p>When you create a new model, it opens automatically in a new tab and you can directly start modeling.</p> <div data-bbox="976 344 1131 663">  <p>Refer to <a href="#">Working with the BPMN Editor</a> for detailed information.</p> </div>
 <p>This is a close-up of the 'JanesFirstBPMN' icon in the 'Process' folder of the sidebar. A hand cursor is pointing at the icon, which is circled in orange.</p>	<p>The new BPMN model is also displayed in the service panel and you can use option <b>Open model</b>  to open it.</p>
 <p>The screenshot shows the same interface as the previous one, but with a context menu open over the 'JanesFirstBPMN' icon. The menu options are: Edit, Instance List, Cut (with keyboard shortcut Ctrl + X), Export, Rename, and Delete. The 'JanesFirstBPMN' icon is circled in orange.</p>	<p>Once the model has been created, use the context menu to manage the model. Available options are:</p> <ul style="list-style-type: none"> <li>• <b>Edit:</b> <ul style="list-style-type: none"> <li>◦ <b>Instance List</b></li> </ul> </li> <li>• <b>Cut</b></li> <li>• <b>Export</b></li> <li>• <b>Rename</b></li> <li>• <b>Delete</b></li> </ul> <div data-bbox="976 1499 1131 1885">  <p>Go to page <a href="#">BPMN Model</a> for detailed descriptions of the context menu options.</p> </div>

# The BPMN Editor

When you create a new BPMN model, it is automatically opened in the BPMN Editor:



Use the various functionalities of the BPMN Editor to design your BPMN model:

Name	Description
1 <b>Diagram Pane</b>	The diagram pane is where you design your BPMN model. Go to page <a href="#">Working with the BPMN Editor</a> for detailed information about the features of the BPMN editor.
2 <b>Elements Toolbar</b>	The elements toolbar contains all BPMN elements that you can create on the diagram pane. Go to page <a href="#">Working with the BPMN Editor</a> for further details about the usage of the toolbar. In the <a href="#">PAS Designer Developer Guide &gt; Supported BPMN Elements</a> all BPMN elements are explained in detail.
3 <b>Model Toolbar</b>	The model toolbar assists you during modeling on the diagram pane. Go to page <a href="#">Working with the BPMN Editor</a> for an overview of the available options of the model toolbar.
4 <b>Designer Panels</b>	In the BPMN editor, the following panels assist you during modeling: <ul style="list-style-type: none"><li>• <b>Service Panel:</b> In the <b>Service</b> panel you can manage the contents of your whole service such as you BPMN and data model, forms and used libraries. Go to pages <a href="#">Service Panel</a> and <a href="#">Working With Libraries</a> for detailed information.</li><li>• <b>Attributes Panel:</b> Use the <b>Attributes</b> panel to change the settings of the BPMN elements and the diagram pane. Go to page <a href="#">Changing BPMN Element Attributes</a> for detailed information.</li><li>• <b>Validation Panel:</b> The <b>Validation</b> panel supports you during modelling by displaying notes for invalid actions in your models or forms. It also gives advice on how to fix the errors. Go to page <a href="#">Validating and Testing a Service</a> for detailed information.</li><li>• <b>Search Panel:</b> Use the <b>Search</b> panel to find elements on the BPMN diagram pane as well as on the execution pane. Go to page <a href="#">Searching in the Designer</a> for detailed information.</li><li>• <b>Overview Panel:</b> In the <b>Overview</b> panel, your model and a blue frame are displayed, representing the content shown on the diagram pane. Use the panel to keep the overview of your BPMN model - and to navigate within. Go to page <a href="#">Working with the BPMN Editor</a> for further information about the Overview panel.</li><li>• <b>Styling Panel:</b> The <b>Styling</b> panel is your tool for formatting the diagram pane and the contents of elements and attributes. Go to page <a href="#">Styling BPMN Elements</a> for detailed information about its options.</li></ul>

## Attributes of a BPMN Model

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Properties


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Name

JanesFirstBPMN


Roles

(0)



When you click on the diagram pane in the BPMN Editor, the attributes of the current BPMN model are displayed in the **Attributes** panel and can also be edited there.

A BPMN model has the following attributes:

Attribute	Description	Example
Name	<p>Click here to change the <b>Name</b> of the BPMN model.</p> <p>BPMN model names must follow certain naming rules. They</p> <ul style="list-style-type: none"><li>• must not contain blanks</li><li>• must not start with a cipher</li><li>• must not contain special characters</li></ul>	JanesFirstBPMN
Roles	<p>Click on the  icon to open a role editor, which allows you to decide which role(s) should have access to the instance list. The number of selected roles is displayed in brackets. For detailed information go to <a href="#">The Role Concept of the Instance List</a>.</p>	acme_manager