

## Adding Libraries

The **Service** panel shows all libraries available in the service. Use the panel to manage your libraries and to use its contents during modeling on the execution pane.

You have two options to add a library to a service:

- via the Asset Drawer
- via the Manage Libraries Dialog

## Adding a Library via the Asset Drawer

Assets

+

Base Types

Connectors

+

Process

Forms

API

+

Implementation

Libraries

### Browse Assets

Libraries

Logging\_Lib  
2.0.0 | shared

OpenAILibraryWIP  
openAI  
First testable version of the openAI Library  
1.0.6 | shared

StockInterface  
This library provides an interface to the stock system to get information on stocked items and stock locations.  
2.0.0 | shared

Add

Add

Add

Open the **Asset Drawer** by clicking button

Assets

in the search box of the service panel.

The Asset Drawer lists all available assets. It displays assets...

- ...that have been uploaded to the current namespace.
- ...that have been uploaded to namespace **Shared**.

Browse the list to find the asset you want to use in your service.

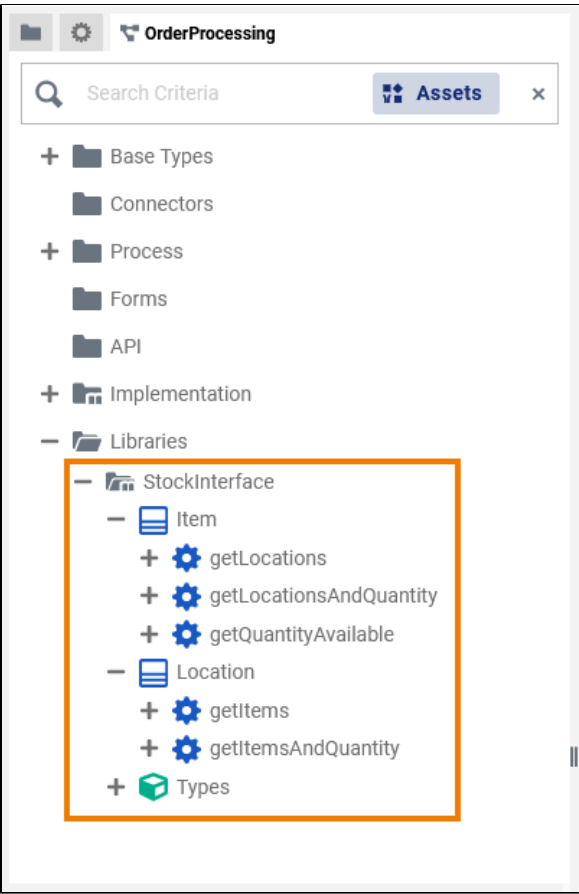
To add a library to your service click the corresponding **Add** button.

### On this Page:

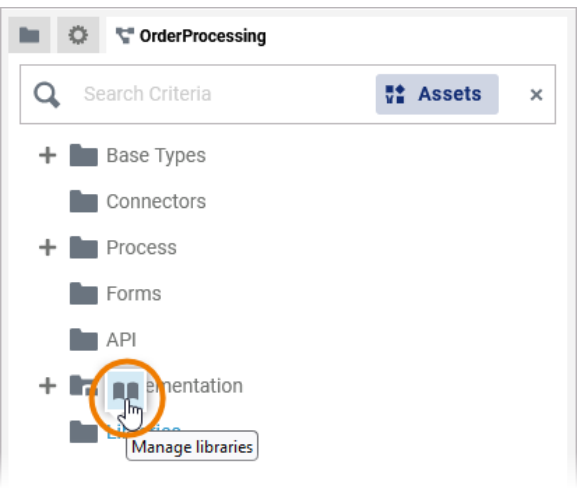

- Adding a Library via the Asset Drawer
- Adding a Library via the Manage Libraries Dialog
  - Adding Libraries With Dependencies
  - Handling Library Conflicts

**Related Pages:**

- Working With Libraries
  - Updating Libraries
  - Removing Libraries
- Sharing Designer Content
  - Working With the Asset Drawer
- PAS Designer Administration
  - Administrating Libraries
- PAS Designer Developer Guide
  - Developing and Using Libraries
  - Creating a Library

	<p>The added library is now displayed in the service panel and you can use it during modeling.</p>
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## Adding a Library via the Manage Libraries Dialog

	<p>If you want to add your own libraries to a service, hover over the <b>Libraries</b> folder in the service panel and use option <b>Manage Libraries</b></p> 
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## Manage Libraries

### Unused Libraries

StockInterface

Versions:

• 1.0.0

▼

📄

+

• 2.0.0

▼

📄

+

ERPOrderInterface

Logging\_Lib

exampleLib

Show versions

### Used Libraries


There are no used libraries.

The dialog **Ma  
na  
ge  
Libraries** opens.

All libraries that have been uploaded to the current namespace are shown in this dialog:

- Currently unused libraries are displayed on the left side of the window.
- The libraries that are already used in this service are shown on the right side.

Expand the drop-down lists to display the details of each library such as versions and dependencies.

<div><div>Manage Libraries</div><div><div>Unused Libraries</div><div><div>StockInterface</div><div>Versions:</div><div><div>1.0.0</div><div>2.0.0</div></div><div><div>▼</div><div>▼</div><div>▼</div></div><div>ERPOrderInterface</div><div>Logging_Lib</div><div>exampleLib</div></div><div><div>Used Libraries</div><div>There are no used libraries.</div></div><div><div>+</div><div>Add library</div></div></div></div>		<p>To add an unused library to the project, click <b>Add library</b> .</p>
<div><div>Manage Libraries</div><div><div>Unused Libraries</div><div><div>ERPOrderInterface</div><div>Logging_Lib</div><div>exampleLib</div></div><div><div>Used Libraries</div><div><div>StockInterface (2.0.0)</div><div>Dependencies:</div><div>There are no dependencies for this library version.</div><div>All versions:</div><div><div>1.0.0</div><div>2.0.0 (Current Version)</div></div></div></div><div><div>Save</div><div>Cancel</div></div></div></div>		<p>The library is now displayed in the column <b>Used Libraries</b>.</p> <p>If you have finished, click <b>Save</b> to persist your changes.</p>
<div><div>OrderProcessing</div><div><div>Search Criteria</div><div>Assets</div></div><div><div>+ Base Types</div><div>Connectors</div><div>+ Process</div><div>Forms</div><div>API</div><div>+ Implementation</div><div>- Libraries</div><div><div>- StockInterface</div><div>- Item</div><div>+ getLocations</div><div>+ getLocationsAndQuantity</div><div>+ getQuantityAvailable</div><div>- Location</div><div>+ getItem</div><div>+ getItemAndQuantity</div><div>+ Types</div></div></div></div>		<p>The added library is now displayed in the service panel and you can use it during modeling.</p>

Use option **Documentation** to display the documentation of a library.

You can find it in the **Manage Libraries** dialog...

... as well as in the service panel when you hover over a library.

**StockInterface**

This library provides an interface to the stock system. You can get

- all stocked items of a location
- all locations where an item is stocked
- the overall quantity of an item on stock (all locations)

**StockInterface**

Classes

**Item**

This class comprises all operations related to a stock item. You can get locations where this item is stocked, as well as quantities per stock location and the overall quantity available of this item.

**getLocations**

Returns all locations where a given item (itemid) is on stock.

Parameter	Type	Description
<code>in itemid</code>	String	Provide an ID of an item you want to get the stock locations of.
<code>return return</code>	String	A list of stock location IDs where the given item (itemid) is on stock.

**getLocationsAndQuantity**

Returns all locations where a given item (itemid) is on stock, as well as the quantity.

If documentation is available, it will be opened in a new browser tab.

This allows developers to access library documentation at any time during the development process.

Adding Libraries With Dependencies

<div><div>Manage Libraries</div><div><div>Unused Libraries</div><div><div>Dependency1_Lib</div><div>Versions:<ul style="list-style-type: none"><li>1.0.0</li><li>1.0.1</li></ul></div><div>Dependency2_Lib</div><div>Dependency3_Lib</div><div>Dependency4_Lib</div><div>ERPOrderInterface</div></div><div><div>Used Libraries</div><div>There are no used libraries.</div></div></div></div> <div><div>Libraries may have dependencies between each other. The Designer supports you to add all necessary libraries:</div><div>When you add a library that contains dependencies...</div></div>	
<div><div>Manage Libraries</div><div><div>Unused Libraries</div><div>ERPOrderInterface</div><div>SimpleFileStorageClient</div><div>librarySQLQuery</div><div>uLibCommentServices</div></div><div><div>Used Libraries</div><div>Dependency1_Lib (1.0.0)</div><div>Dependency2_Lib (1.0.0)</div><div>Dependency3_Lib (1.0.0)</div><div>Dependency4_Lib (1.0.0)</div></div><div><div>Save</div><div>Cancel</div></div><div><div>Service Status: Not deployed</div><div>Deployed Version:</div><div>Automatically added 3 required dependencies</div></div></div> <div>... the Designer also adds all dependent libraries.</div>	
<div><div>Manage Libraries</div><div><div>Unused Libraries</div><div><div>Dependency1_Lib</div><div>Versions:<ul style="list-style-type: none"><li>1.0.0</li><li>1.0.1</li></ul></div><div>Dependency2_Lib</div><div>Dependency4_Lib</div><div>ERPOrderInterface</div><div>SimpleFileStorageClient</div></div><div><div>Used Libraries</div><div>There are no used libraries.</div></div></div></div> <div><div>If you add a library, that contains dependencies but not all dependent libraries are available in the current namespace...</div></div>	

Manage Libraries

Unused Libraries

ERPOrderInterface

SimpleFileStorageClient

librarySQLQuery

uLibCommentServices

Used Libraries

Dependency1\_Lib (1.0.0)

Dependency2\_Lib (1.0.0)

Dependency3\_Lib (1.0.0)

Dependency4\_Lib (1.0.0)

Save

Cancel

Service Status: Not deployed

Deployed Version:

Automatically added 3 required dependencies

... the missing library is added, but highlighted in red.

In that case, go to the [library administration](#) and upload the missing library to the namespace to make it available in your service.

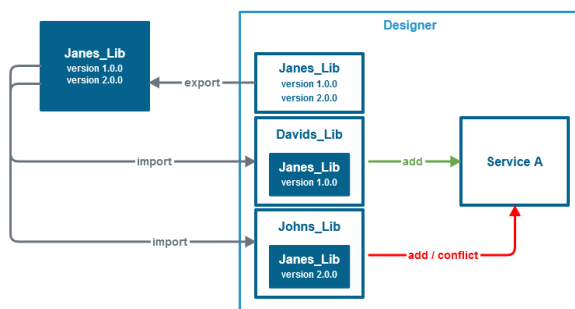
## Handling Library Conflicts

Especially if you develop your own libraries (see [Developing and Using Libraries](#) for details) and create different versions, it is possible that library dependencies conflict with each other when you add them to a service.

### Example:

Jane developed her own library, **Janes\_Lib** in a first version **1.0.0** . She provides David her library. He uses **Janes\_Lib 1.0.0** during the creation of his own library **Davids\_Lib 1.0.0** .

Now, Jane extends her library and creates **Janes\_Lib 2.0.0** . Jane gives the new version of her library to John, who uses **Janes\_Lib 2.0.0** in his own library **Johns\_Lib 1.0.0** .



Select Namespace

ACME Corp.

Testing

Libraries

⬆

Browse

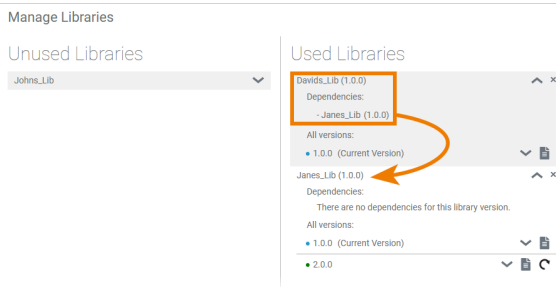
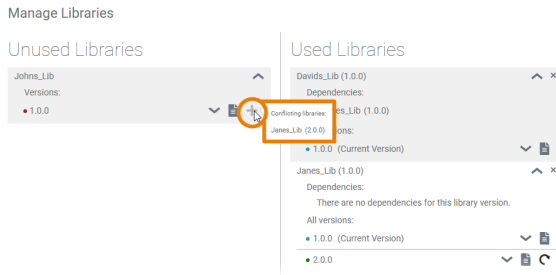
Upload

Davids\_Lib

Janes\_Lib

Johns\_Lib

All three developers upload their own libraries to a shared namespace, because they want to develop a service together.

	<p>David starts modeling the service. He wants to use his library, so he adds <b>Davids_Lib 1.0.0</b> to the service.</p> <p>Since he used <b>James_Lib 1.0.0</b> in his own library, <b>James_Lib</b> is also added to the service - in the necessary version <b>1.0.0</b>.</p>
	<p>John wants to collaborate with David, he also wants to use his library <b>Johns_Lib 1.0.0</b>.</p> <p>However, the button to add the library is disabled, and John gets a conflict message.</p> <p>Since John used <b>James_Lib 2.0.0</b> in his own library, there is a version conflict between <b>James_Lib 1.0.0</b> in Davids library and <b>James_Lib 2.0.0</b> in Johns library.</p>

John and David have now two possibilities to solve the version conflict:



- David can upgrade the library version of Janes library to use **Janes\_Lib 2.0.0** in his library.  
This is probably the most common case.
- John could downgrade the library version of Janes library to use **Janes\_Lib 1.0.0** in his library.

Once David and John are using the same version of **Janes\_Lib** , both can use their libraries in the service.