

Filesystem Adapter

The Filesystem adapter gives you access to the filesystem in service context. You can read and write files (even incrementally), and read and create directories.

Find below a table listing some common tasks you can use the Filesystem adapter for, and which action to use for which task.

Task	Action	Mode	Important Parameter	Remarks
Write a complete file in one action.	write			<ul style="list-style-type: none"> If the file exists, it will be overwritten. If the file does not exist, it will be created.
Replace part of a file.	write		position	Writes the data to the file beginning at the specified position. If the file does not exist you will get the exception FSADM/8 (see Catching Errors).
Append data to a file.	append	append		<ul style="list-style-type: none"> If the file exists, the given data will be appended. If the file does not exist, it will be created.
Write a complete file line by line.	append	overwrite		<p>Use mode overwrite for all appends.</p> <ul style="list-style-type: none"> If the file exists, it will be overwritten. If the file does not exist, it will be created. <p>overwrite will only be applied to the first append. All subsequent appends (e.g. in a loop) automatically get mode append.</p>
Copy a complete file.	copy			Copy a file in one action. Using copy you can even copy huge files because it does not load the complete file into memory.
Move a file to a new location.	rename		newName	Provide the new path of the file through the new Name parameter.
Delete a file.	remove			If the specified file does not exist, no error will be reported.
Manipulate a file and process the file further (e.g. moving it).	<ol style="list-style-type: none"> write or append close further processing 			Before processing the file further (e.g. moving it), close the file. Otherwise it may be locked.

On this Page:

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FilesystemAdapter_ProductExport_Example

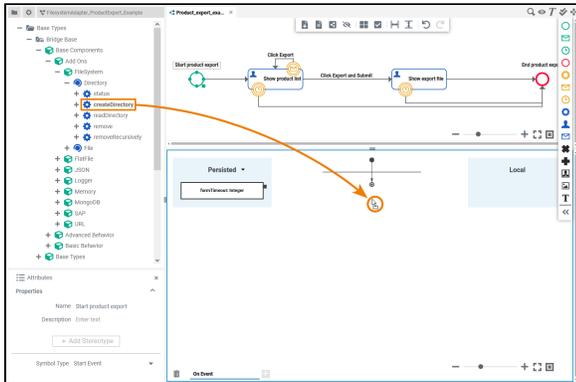


Click the icon to download a simple example model that shows the usage of the Filesystem adapter in **Scheer PAS Designer**.

Adding a Filesystem Adapter Operation to a Diagram



Expand the path to the Filesystem adapter in the service panel (**Base Types /Bridge Base /Base Components /Add Ons /FileSystem**).



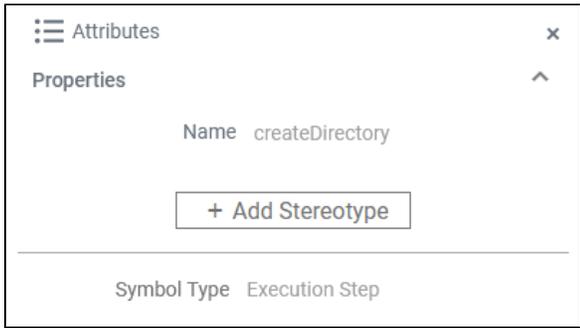
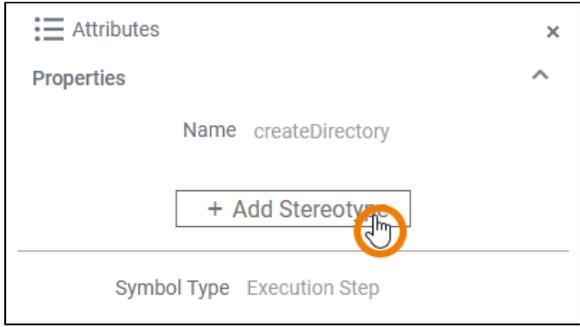
You can drag out operations from the data model to any diagram:

- BPMN execution diagrams
- mapping diagrams
- activity diagrams

The example on the left shows how to add a Filesystem adapter operation to a BPMN execution diagram.

Configuring the Filesystem Adapter Operation

Once an operation has been added to a diagram, it needs to be configured as a Filesystem adapter.

	
	<p>Click Add Stereotype to define the selected operation as to be a File System adapter.</p>

Select Stereotype

- File System Adapter
 - Flat File Adapter
 - Kafka Producer Adapter
 - Logger
 - Memory Adapter
 - MongoDB Adapter
 - REST Adapter
 - S3
 - SAP IDoc Composer
 - SAP IDoc Parser
 - SAP IDoc Record Composer
 - SAP IDoc Record Parser
 - SAP RFC Adapter
 - SAP TRFC Adapter
 - SAP TRFC Confirm Transaction
 - SAP TRFC Create Transaction
 - SAP XML IDoc Composer
 - SAP XML IDoc Parser
 - SQL Adapter
 - UDDI Adapter
-

Select **File System Adapter** from the list of available adapter stereotypes. Click **Save**.

☰ Attributes ×

Properties ^

Name createDirectory

FileSystemAdapter ⌵

Symbol Type Execution Step

The **Attributes** panel shows the added adapter stereotype. Now you still need to configure the adapter.

Expand the stereotype by clicking the arrow on the right.

☰ Attributes x

Properties ^

Name createDirectory

FileSystemAdapter ^

alias Select alias + -

action +

mode append v -

+ Add Stereotype

Symbol Type Execution Step

To configure a Filesystem adapter, you have the following options:

- **alias:** A Filesystem adapter is configured via its alias. For more information see below.
- **mode:** This option is only relevant for **append** operations.

Refer to [Filesystem Adapter Reference](#) for further information. The adapter option **action** derives from the used operation. Do not configure this.

☰ Attributes x

Properties ^

Name createDirectory

FileSystemAdapter ^

alias None

action ProductExportDirectory

mode ProductExportFile

+ Add Stereotype

Symbol Type Execution Step

You can select an existing alias from a drop-down list by clicking the text **Select alias**.

If you want to remove an added alias, click the corresponding **-** icon on the right side or select **None** from the drop-down list:

None	
ProductExportDirectory	
ProductExportFile	

☰ Attributes x

Properties ^

Name createDirectory

FileSystemAdapter ^

alias Select alias 

action +

mode append v -

+ Add Stereotype

Symbol Type Execution Step

You can also create and add a new alias by clicking the corresponding **+** icon.

Refer to [Aliases](#) for more information on how to create a new alias.

Choose alias stereotype

- DirectoryAlias
 FileAlias

Save



Cancel

A dialog opens where you can choose an alias stereotype:

- **DirectoryAlias**
- **FileAlias**

Select the desired alias stereotype and click **Save**.

Add Alias

Name:

Standard

directory

fileEncoding:

Save



Cancel

In the following dialog, name and configure the new alias.

Refer to [Filesystem Adapter Reference](#) for more information on the configuration options of this adapter.

Click **Save** to create and add the new alias.