

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		Use mode overwrite for all appends. <ul style="list-style-type: none">If the file exists, it will be overwritten.If the file does not exist, it will be created. overwrite will only be applied to the first append. All subsequent appends (e.g. in a loop) automatically get mode append .
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 appendclosefurther processing			Before processing the file further (e.g. moving it), close the file. Otherwise it may be locked.

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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

Configuring the Filesystem Adapter Operation

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

<div><div>⋮ Attributes</div><div>×</div><div>Properties</div><div>^</div><div>Name createDirectory</div><div>+ Add Stereotype</div><div>Symbol Type Execution Step</div></div>		
<div><div>⋮ Attributes</div><div>×</div><div>Properties</div><div>^</div><div>Name createDirectory</div><div>+ Add Stereotype</div><div>Symbol Type Execution Step</div></div>		<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
- ☐ I18N Adapter

Save

Cancel

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

Attributes

Properties

Name createDirectory

FileSystemAdapter

+ Add Stereotype

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

Properties

FileSystemAdapter

Name

createDirectory

alias

Select alias

+ -

action

+

mode

append

▼ -

+ 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.

The screenshot shows the 'Properties' tab of a UML diagram editor. The 'Name' property is set to 'createDirectory'. The 'alias' dropdown menu is open, displaying three options: 'None', 'ProductExportDirectory' (which is highlighted in blue and has a hand cursor over it), and 'ProductExportFile'. Below the dropdown menu is a button labeled '+ Add Stereotype'. At the bottom of the editor, the 'Symbol Type' is set to '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:



≡ Attributes

×

Properties


^

Name createDirectory

FileSystemAdapter

^

alias Select alias




action +

mode append

▼ -

+ 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:

NewAlias

Standard

directory

fileEncoding

+

utf-8

-

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.