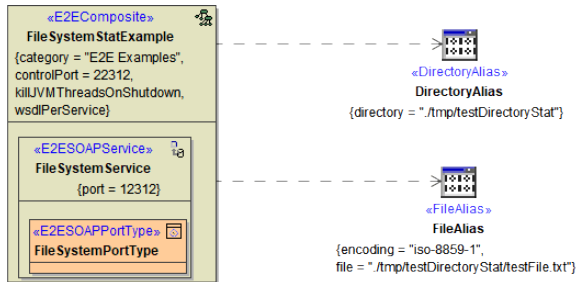


# File System Components

Builder 7 The usage of file system access is represented by two aliases: a **directory alias** (having stereotype `<<DirectoryAlias>>`) and a **file alias** (having stereotype `<<FileAlias>>`). They are connected to the service composite by a dependency.

Figure: File System Component Diagram



The alias **FileAlias** represents a certain file, the alias **DirectoryAlias** represents a certain directory on the file system. On both you can use relative paths - they will be relative to the service directory on the E2E Bridge, then.

The directory alias can define a base directory and a default file encoding:

- The default file **encoding** can be overridden per adapter call using a dynamic **encoding** parameter, e.g. on File System Adapter calls reading lines, or with the Flat File Adapter.
- Regarding the base **directory**, the file name parameter will be treated as a path relative to this directory on the File System Adapter call. Jumping out of the base directory by `../` is impossible. The base directory can be changed in the service settings on the E2E Bridge, however.

See also [Directory Alias and Dynamic File Access](#) for an example of using the directory alias with dynamic file access.

Using a file resource, neither file encoding nor file path can be overridden.

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- [xUML Service Settings](#)

## Tagged Values

### `<<DirectoryAlias>>`

Tagged Value	Description	Allowed Values
<b>directory</b>	Specify a path to a directory. This directory will be treated as a base directory. It will be either used directly (for a File System Adapter operating directly on directories), or as a base directory for a path segment given by a dynamic file <b>name</b> parameter. It is not possible to jump out of the base directory by <code>../</code> or <code>../../</code> . The base directory can only be changed in the service settings on the Bridge.	Example: <code>./tmp/testDirectory</code>
<b>fileEncoding</b>	Specify the default encoding be used with the directory. This default encoding can be overwritten on adapter calls, using a dynamic <b>encoding</b> parameter, e.g. on File System Adapter calls reading lines, or with the Flat File Adapter.	Refer to <a href="#">Charset Definitions</a> for possible values. Default: <code>iso-8859-1</code>

### `<<FileAlias>>`

Tagged Value	Description	Allowed Values
<b>file</b>	Specify name and path of the file you want to access.	Example: <code>./tmp/testDirectory/testFile.txt</code>

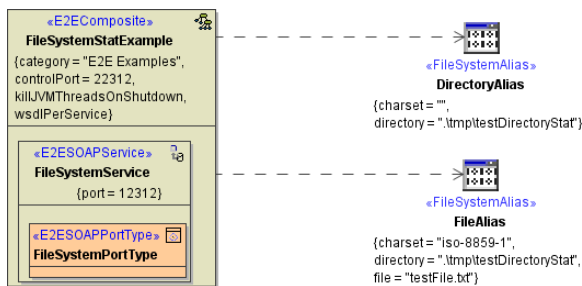
<b>encoding</b>	Specify the encoding of the file.	Refer to <a href="#">Charset Definitions</a> for possible values.	
		def ault	iso-8859-1
<b>resource</b>	<p>Instead of a <b>file</b>, you can select a resource from the list of imported resources. The File System Adapter will then use the resource instead of <b>file</b>. The resource can be replaced changing the resource path in the <b>File System Adapter</b> settings of the xUML service.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>If <b>resource</b> is specified neither <b>file</b> nor <b>encoding</b> can be overridden dynamically.</p> </div> <p>See <a href="#">Importing File Resources</a> for more information on importing resources and <a href="#">xUML Service Settings</a> for more information on changing the settings of a service.</p>		

## File System Components of Builder Version 6

Deprecated since Builder 7

The use of file system access is represented by the two aliases **DirectoryAlias** and **FileAlias**. Both have the stereotype `<<FileSystemAlias>>`. They are connected to the service composite by a dependency.

Figure: File System Component Diagram



The alias **FileAlias** represents a certain file. It has three tagged values:

- **fileName**: The file name of the file you want to access.
- **directory**: The path to the file.
- **charset**: The charset definition of the file.

The alias **DirectoryAlias** represents a certain directory on the file system. Hence, only the tagged value **directory** has to be defined.

Tagged Values of the `<<FileSystemAlias>>`

In general, a `<<FileSystemAlias>>` can have four tagged values:

Tagged Value	Description	Allowed Values	
<b>fileName</b>	Specify the name of the file you want to access. Leave this tagged value empty, if you want to access a directory.	Example:	myFile.txt
<b>directory</b>	Specify the path to the file or directory.	Example:	.\tmp\testDirectory
<b>charset</b>	Specify the charset of the file. Refer to <a href="#">Charset Definitions</a> for possible values.  If the alias refers to a directory, specifying <b>charset</b> is superfluous.	default	iso-8859-1

<b>resource</b>	<p>Instead of a <b>fileName</b>, you can select a resource from the list of imported resources. The File System Adapter will then use the resource instead of <b>directory/fileName</b>.</p> <p>The resource can be replaced changing the resource path in the <b>File System Adapter</b> settings of the xUML service.</p> <p>See <a href="#">Importing File Resources</a> for more information on importing resources and <a href="#">xUML Service Settings</a> for more information on changing the settings of a service.</p>	
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