

# FOP

## FOP Component

Available as of Camel 2.10

The FOP component allows you to render a message into different output formats using [Apache FOP](#).

Maven users will need to add the following dependency to their `pom.xml` for this component:

```
<dependency>
  <groupId>org.apache.camel</groupId>
  <artifactId>camel-fop</artifactId>
  <version>x.x.x</version>
  <!-- use the same version as your Camel core version -->
</dependency>
```

## URI format

```
fop://outputFormat?[options]
```

## Output Formats

The primary output format is PDF but other output [formats](#) are also supported:

name	outputFormat	description
PDF	application/pdf	Portable Document Format
PS	application/postscript	Adobe Postscript
PCL	application/x-pcl	Printer Control Language
PNG	image/png	PNG images
JPEG	image/jpeg	JPEG images
SVG	image/svg+xml	Scalable Vector Graphics
XML	application/X-fop-areatree	Area tree representation
MIF	application/mif	FrameMaker's MIF
RTF	application/rtf	Rich Text Format
TXT	text/plain	Text

The complete list of valid output formats can be found [here](#)

## Endpoint Options

name	default value	description
outputFormat		See table above
userConfigURL	none	The location of a configuration file with the following <a href="#">structure</a> . From <b>Camel 2.12</b> onwards the file is loaded from the classpath by default. You can use <code>file:</code> , or <code>classpath:</code> as prefix to load the resource from file or classpath. In previous releases the file is always loaded from file system.
fopFactory		Allows to use a custom configured or implementation of <code>org.apache.fop.apps.FopFactory</code> .

## Message Operations

name	default value	description
CamelFop.Output.Format		Overrides the output format for that message
CamelFop.Encrypt.userPassword		PDF user password
CamelFop.Encrypt.ownerPassword		PDF owner password
CamelFop.Encrypt.allowPrint	true	Allows printing the PDF
CamelFop.Encrypt.allowCopyContent	true	Allows copying content of the PDF
CamelFop.Encrypt.allowEditContent	true	Allows editing content of the PDF
CamelFop.Encrypt.allowEditAnnotations	true	Allows editing annotation of the PDF
CamelFop.Render.producer	Apache FOP	Metadata element for the system/software that produces the document
CamelFop.Render.creator		Metadata element for the user that created the document
CamelFop.Render.creationDate		Creation Date
CamelFop.Render.author		Author of the content of the document
CamelFop.Render.title		Title of the document
CamelFop.Render.subject		Subject of the document
CamelFop.Render.keywords		Set of keywords applicable to this document
CamelFop.RendererOptions		<b>(since Camel 2.18)</b> Set key/values to FOUUserAgent.rendererOptions (for example pdf-a-mode to PDF/A-1b)

## Example

Below is an example route that renders PDFs from xml data and xslt template and saves the PDF files in target folder:

```
from("file:source/data/xml")
  .to("xslt:xslt/template.xml")
  .to("fop:application/pdf")
  .to("file:target/data");
```

For more information, see these resources...

## See Also

- [Configuring Camel](#)
- [Component](#)
- [Endpoint](#)
- [Getting Started](#)