

# CachedFOPTransformer

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*Transformer features and configuration*

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## 1. Overview

This transformer uses a [JAXP 1.2](#) -implementing XSLT processor and [Apache FOP](#) to transform the XML with one or more XSL files into XSL-FO then convert the XSL-FO into PDF or SVG. It takes advantage of TRaX interfaces to compile and cache stylesheets to speed up the transformation process. .

## 2. Features

- Multiple XSL stylesheet support
- Can output Adobe PDF or SVG format
- Configurable cache of compiled stylesheets
- Uses SAX to build the document
- Can be extended to add SAX filters before XSLT processing

## 3. Configuration

### 3.1. Global

Property	Value	Status
outputType	svg   pdf (default)	Optional
autoReloadTemplates	true   false (default). If true, the cached Templates will be checked to see if the stylesheet has been modified since and reload as necessary.	Optional
resolveFromTemplatePath	false   true (default). If true, URIs used in xsl:import, or xsl:include are resolved from the directory of the parent stylesheet. Otherwise, URIs are resolved from the root directory of the web application.	Optional
transformerFactoryClass	The name of the JAXP transformer factory implementation to use.	Optional

**Table 1: Global stxx.properties properties**

#### Note:

If you are having problems with NullPointerExceptions when stxx is loading stylesheets, it could be because your servlet

container doesn't implement request.getRealPath() in a useful manner. If this is the case, set both resolveFromTemplatePath and autoReloadTemplates to "false" and stxx will load the stylesheets using ServletContext.getResourceAsStream().

### 3.2. Transform-specific

These parameters are specified in stxx 1.2+ pipeline configuration format. See [Configuring with Struts 1.1](#) for more information.

Parameter	Value	Status
path	The path to the XSL file	Required and can be repeated
debug	true   false (default)	Optional
attachRequestParameters	false   true (default)	Optional
attachRequestAttributes	false   true (default)	Optional
attachForm	false   true (default)	Optional
attachResources	false   true (default)	Optional
attachErrors	false   true (default)	Optional
attachMessages	false   true (default)	

**Table 1: Transform-specific parameters**

When this transformer is debugged either by setting the "debug" param or by passing "debug=true" on the querystring (if activated), the debugging XML is the original stxx-produced XML transformed by the XSL files into XSL-FO. This should make it easier to debug FOP processing.

### 3.3. Examples

Global configuration:

```
stxx.transformer.pdf.class=com.oroard.stxx.transform.CachedFOPTransformer
stxx.transformer.pdf.outputType=pdf
```

Transform-specific configuration:

```
<pipeline match="pdf/*.dox">
  <transform type="pdf">
    <param name="path" value="/{1}.xsl" />
  </transform>
</pipeline>
```