J4L FOP Server - XML to PDF conversion

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Whether you are new to Java, an experienced developer or are not using Java at all but you need to have a **FOP server in a few minutes up and running** we have created the J4L FOP Server bundle.

The J4L FOP Server bundle is a windows executable program that will install all you need to run Apache FOP and convert XML files to PDF. The main features are:

- The basic version is free.
- One click install and uninstall
- No Java or Apache FOP knowledge required
- It can be used for Oracle APEX
- It can be used from any programming language
- It can be used for testing your xsl-fo very easily (see step 4 below)

Getting Apache FOP to work in 4 steps

1. The installation

Execute the downloaded exe file.

First you can select the installation directory:

# J4L FOP Server: Installation Fol.	💶 🗆 🔀	
Setup will install J4L FOP Server in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.		
Destination Folder		
C:\Program Files\J4LFOPServer	Browse	
Space required: 171.1MB		
Space available: 110.3GB		
Cancel Nullsoft Install System v2.46	Install	

After the files have been copied, click "Next".

In the next step you select the hostname and ports.

- Hostname: Only if you are using the multiple user license you need to enter a real network hostname instead of "localhost". In a single user environment use always "localhost".
- Web server and database port. You can leave the default values unless these are already in use in your computer.

⊮ J4 L	. FOP Server		K
Serve	r information		
43	Server IP or Name	localhost	
	Web server port	8087	
	Database port	1527	
Can	cel Nullsoft Install System	v2,46 < <u>B</u> ack Next >)

Installation as windows service (professional edition)

If you are installing the professional edition you will have the chance to install the service as a windows service.

First you will have to select your processor type:

得 J 4	L FOP Server	
Selec	ct your processor type:	
	C Win32 compatible C AMD/EMT 64-bit	
	C Intel Itanium 64-bit	
Ca	ncel Nullsoft Install System v2.46 < Back	Next >

if you are not using a AMD 64-bit or a Intel Itanium 64-bit processor then select the Win32 compatible option.

In the second screen you can select if the windows service will be installed and if so, which user will be used by the service. The user and password can be left empty. In this case the service will run with the local system account.

🕏 J4L FOP Server	
Install windows service	
User to start the service	Π
Password	
Cancel Nullsoft Install System v2	.46 < <u>B</u> ack <u>C</u> lose

If you want to change the windows service after the installing, you can use these programs:

- <J4LFOPServer>\service\install.cmd : to install the service
- <J4LFOPServer>\service\uninstall.cmd : to remove the service
- <J4LFOPServer>\service\GUI\J4LFOPServerS.exe: use this program to change the settings of the installed service.

The **service\GUI\J4LFOPServerS.exe** program can be used to start and stop the service. Or if you want to start the service always automatically, can can change the "Startup type" to "automatic".

🏷 J4LFOPSe	rverS Properties 🛛 🔀	
General Log On	Logging Java Startup Shutdown	
Service Name:	J4LFOPServerS	
Display name:	J4LFOPServerS	
Description:		
Path to executab	le:	
C:\Programme\J4LFOPServer\service\J4LFOPServerS.exe //RS//J4LFOP:		
Startup type:	Manual	
Service Status:	Stopped	
Start	Stop Pause Restart	
	OK Abbrechen Übernehmen	

In the "Log on" tab, you can also change the user used for the service execution.

2. Starting and stopping FOP

Use the Start server and Stop Server programs in the windows menu:



note, if you are using the windows service in automatic mode, there is no need to start it manually.

3. The initial test

After you have started the server open this URL in your computer and click the *Convert to PDF* button. This will generate a PDF file!

http://localhost:8087/J4LFOPServer/Example.html

Iocalhost:8087/J4LFOPSei × €
← → C (S) localhost:8087/J4LFOPServer/Example.html

XSL-FO Servlet test page

Press the button for converting the XML document to PDF (a new window will open).

Convert to PDF

4. Convert your own files

If you have your own XML and XSL-FO files you want to test, open this URL

http://localhost:8087/J4LFOPServer/FOP.html

and upload the 2 files, you will find some examples in the directory FODesigner\examples\employees. You can select the files departmentEmployees.fo and departmentEmployees.xml

POP execution page × 🕀
← → C 🕲 localhost:8087/J4LFOPServer/FOP.html
Select your XSL-FO and XML files and press convert to create the PDF file Select XSL-FO file: Choose File departmentEmployees.fo Select XML File: Choose File departmentloyees.xml
Convert now

press convert and you will see the output.



5. How to use it for APEX

The URL to use as print server is:

http://computername:8087/J4LFOPServer/Apex

the three APEX parameters will be:

- Printer server host address: computername (for example, "localhost" if APEX and FOP server are on the same computer)
- Print server port: 8087
- Print Server script: /J4LFOPServer/Apex

6. How to troubleshoot the FOP requests

Add the DEBUG=ON parameter in the URL, for example for Apex

http://computername:8087/J4LFOPServer/Apex?DEBUG=ON

this will print your requests in the server window. You will there see, the xsfl-fo file being used and the XML data received:



if you want the log data to be writte to a file, you have to edit the file:

<installation directory>\J4LFOPServer\start.ini

And remove the # from this line:

#etc/jetty-logging.xml

after that, restart the server. The log data will be written to the logs subdirectory.