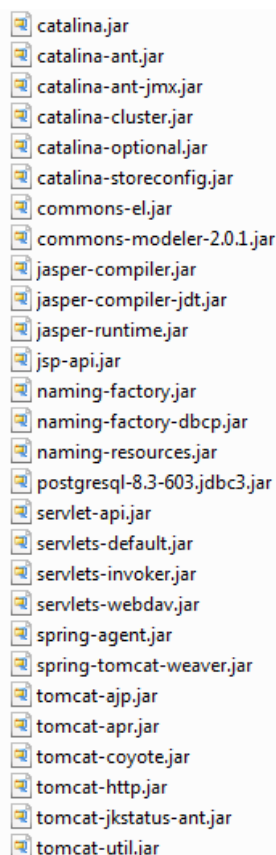


Fragmento: Process Fragment Library

– Installation Manual –

Installing the repository for process fragments, “Fragmento” (Win32)

1. If there is an older version of Fragmento already installed on the system: please remove it (i.e., delete the Tomcat directory, drop the database, delete SoapUI projects); an update from a previous version is not possible.
2. If you do not have Java Runtime Environment (JRE) 1.6 installed, please install Java (\bin\jdk-6u7-windows-i586-p.exe)
3. We provide Fragmento as Web Archive (\bin\Repository.war) which can be deployed into a servlet container (which needs to be configured accordingly). We use Apache Tomcat V5.5 as container, a preconfigured version is available on request. We use the following libraries:



- catalina.jar
- catalina-ant.jar
- catalina-ant-jmx.jar
- catalina-cluster.jar
- catalina-optional.jar
- catalina-storeconfig.jar
- commons-el.jar
- commons-modeler-2.0.1.jar
- jasper-compiler.jar
- jasper-compiler-jdt.jar
- jasper-runtime.jar
- jsp-api.jar
- naming-factory.jar
- naming-factory-dbc3.jar
- naming-resources.jar
- postgresql-8.3-603.jdbc3.jar
- servlet-api.jar
- servlets-default.jar
- servlets-invoker.jar
- servlets-webdav.jar
- spring-agent.jar
- spring-tomcat-weaver.jar
- tomcat-ajp.jar
- tomcat-apr.jar
- tomcat-coyote.jar
- tomcat-http.jar
- tomcat-jkstatus-ant.jar
- tomcat-util.jar

4. Add the context information for database connectivity (see Repository.xml)
5. Next, the database server has to be installed, for this please execute the installation routine for Postgre SQL (we use postgresql-8.4.0-1-windows.exe) and follow the steps in the installation wizard
6. After installation a new database has to be created for the repository. For this, please launch the tool “pgAdmin II” from the PostGre program menu and apply standard settings

- a. Name for the database: repository (in lower case)
 - b. Password for the database: postgres
 - c. Note: When using a different database provider than PostGre or other settings as (a) and (b) please update the Fragmento configuration at \webapps\Repository\META-INF\context.xml
7. For testing the Web service functionality we recommend using SoapUI.
 8. For finishing the installation please reboot the computer

Starting Fragmento

1. After Installation the Postgre Database is automatically started after boot sequence
2. Manually start the Apache Tomcat application server with this batch file: \bin\startup.bat
3. After Tomcat startup the Fragmento repository and Fragmento Web service should be running and the database tables should have been initialized
4. The Web service is then available at the following endpoint:
 - a. <http://localhost:8080/Repository/services/FragmentService?wsdl>
5. The Fragmento Web Client is available at the following URL:
 - a. <http://localhost:8080/Repository/start.htm>

Working with Fragmento

- For working with Fragmento the application server has to be started (startup.bat in the Tomcat binary folder)
- Fragmento offers a Web client which can be used in any of the common browsers (Firefox, Internet Explorer etc.). Enter this link into the address bar in your browser to access the Web client: <http://localhost:8080/Repository/start.htm>
- Details concerning concepts implemented in Fragmento, its Web client and its Web service interfaces can be found in the documentation
- Fragmento also exposes its functionality as Web service. The Web service interface can be accessed with SoapUI without further programming. For this, start the SoapUI application and create a new project by entering this path for the WSDL: <http://localhost:8080/Repository/services/FragmentService?wsdl>
- SoapUI automatically generates sample request messages that can be sent to the Fragmento Web service
- We provide a **testsuite** the can be used with SoapUI to provide an initial filling of the repository with sample artefacts (FragmentoInitialFilling-soapui-project.xml). Import this project via "file\import project". Then, right-click on the testsuite "Fragment Initial filling" and select "launch Testrunner \launch". Then the sample files are sent via SOAP/HTTP to the web service interface of the repository.

Working with the source code

Fragmento is entirely written in Java, therefore we have used a development environment with good support for Java. For this we have chosen to use Eclipse Ganymede for Java Developers. Further development of the Fragmento source code requires Java Software Development Kit (JSDK, not provided in the \bin folder), so please check if the Java Runtime Environment (JRE) with the environment variable JRE_HOME or the Java SE Development Kit (JDK) with the environment variable JAVA_HOME is installed correctly.