COINED Server

Required prerequisites: Servlet Container and SQL-Database (Tomcat and MySQL recommended) .

Preparing the database

The COINED Server in its default configuration requires a MySQL-Database (version ≥5.0). If other SQL-Databases are to be used, the config files (META-

INF/context.xml, WEB-INF/coidConfig.xml) and the db driver have to be changed accordingly.

The following steps are required for setting up the database for COINED:

- 1. Create a schema coid
- 2. Create user coid with password cold, grant all privileges on schema coid to user coid
- 3. Create COINED's table structure by executing the script CoinedTables.sql

Preparing the servlet container

The COINED Server was developed for deployment in Apache's servlet container Tomcat (version \geq 5.5.12), COINED specifically makes use of Tomcat's db connector pooling ability for accessing the SQL database. Therefore it is required to install the appropriate db driver into the Tomcat server context – an installation within web application context is insufficient. Add mysql-connector-java-3.1.11bin.jar to <Path-to-your-Tomcat-Installation>/common/lib.

Installing the COINED Server

The COINED Server has the form of a web application so installing it means deploying it into a servlet container

- 1. Make sure you have the required source file: COINEDServer.war
- 2. Deploy the web application to your servlet container, e.g. in Tomcat you simply add the archive COINEDServer.war to folder <Path-to-your-Tomcat-Installation>/webapps/.Tomcat should automatically detect and extract the application. It might be necessary to stop Tomcat and to delete old versions of the COINEDServer (.war-file and extracted application folder) first.

Figure 1 shows the Tomcat console messages for a successfully and correctly starting COINED Server.

🔤 Tomcat	- 🗆 ×
04.05.2007 09:47:57 org.apache.catalina.core.AprLifecycleListener lifecycleEvent INFO: The Apache Portable Runtime which allows optimal performance in production environments was I library.path: C:\jdk1.5\bin;.;C:\WINDOWS\system32;C:\WINDOWS;C:\Perl\bin\C:\jdk1.4.2\jre\bin;C:\O Oracle\jrex1.3.1\bin;C:\Programme\Dracle\jrex1.1.6\bin;C:\orant\bin;C:\WINDOWS\system32;C:\VINDOWS benjC:\Programme\Microsoft SQL Server\00\fools\21HNS(:\bin\puty;C:\bin\G:\WINDOWS)	RA92\bin;C:\Programme\ ;C:\WINDOWS\System32\W
\ATT\Graphuiz\bin; 04.05.2007 09:47:57 org.apache.coyote.http11.Http11BaseProtocol init INFO: Initializing Coyote HTTP/1.1 on http=8080 04.05.2007 09:47:57 org.apache.catalina.startup.Catalina load	
197,65,2007 07.47.57 049.404704.2444104.25444104.444104.4044 1MF0: Initialization processed in 672 ms 04.05,2007 09:47:57 org.apache.catalina.core.StandardService start 1MF0: Starting service Catalina	
04.05.2007 09:47:57 org.apache.catalina.core.StandardEngine start INFO: Starting Serulet Engine: Apache Tomcat/5.5.12 04.05.2007 09:47:57 org.apache.catalina.core.StandardHost start	
INFO: XML validation disabled COINEDServer is starting AbandonedObjectPool is used (org.apache.tomcat.dbcp.dbcp.AbandonedObjectPool@1549f94)	
LogAbandoned: true RemoveAbandoned: true RemoveAbandonedIimeout: 15	
- ActiveMQ 4.0 JMS Message Broker (localhost) is starting - For help or more information please see: http://incubator.apache.org/activemq/ - Database driver recognized: Lapache_derby_enbedded_jdbc_driver]	
– Journal Recovery Started from: Active Journal: using 2 x 20.0 Megs at: C:\java\apache-tomcat=5.5 localhost\journal – Journal Recovered: 0 message(s) in transactions recovered.	.12\bin\activemq-data\
- Listening for connections at: tcp://defiant:61616 - Connector tcp://defiant:61616 Started - ActiveMQ JMS Message Broker (localhost, ID:defiant-3767-1178264877828-3:0) started COINEDServer successfully started	_

Figure 1 – Tomcat console logging: COINED Server successfully started

The default configuration of the COINED Server assumes that database and server are running on the same host. This configuration can be changed by editing the config files META-INF/context.xml and WEB-INF/coidConfig.xml. These files also contain the parameters for changing the default db user, the db connection URL, etc.