

Geonetwork Installation Instructions

1. Install first Java 2 SDK (Software Development Kit), SE (Standard Edition) 1.4.2 or newer version.

This package can be downloaded from <http://java.sun.com>

2. Install Tomcat version 4.1 or newer version.

This package can be downloaded from <http://jakarta.apache.org/tomcat>

And follow the instructions regarding the set up of the firewall, by configuring the port to 80 when requested (for further information see below "set up of firewall"). After the installation test Tomcat by typing <http://localhost:80/> in your browser and test the example applications (especially the servlets).

3. Set up of firewall:

- 3.1. Incoming ports:

The default http port of tomcat is 8080. Please change the port as a standard for testing purpose to 80, since it is the standard http protocol. This can be done during the installation or in the tomcat configuration file in the Tomcat Directory /conf/server.xml by replacing the 8080 with 80.

The Z39.50 port is used for incoming queries, it is by default 2100, and should be left at 2100 as a standard for the testing set up.

- 3.2. Outgoing ports:

Since Geonetwork connects to some http ports of other sites for remote alignment and InterMap and some Z39.50 ports it is advisable to allow the server to go outside.

4. The CGIAR version of the Geonetwork installer can be downloaded at

<http://homepage.mac.com/rgiaccio/FileSharing3.html>

- 4.1. Start the installer by double-clicking on the .jar file or type in the command prompt

```
java -jar <INSTALLER-FILE-NAME>
```

- 4.2. After choosing the language, accepting the license agreement and selecting the installation path a selection of the data packs that are needed is required. It is suggested to install the core and the UNEP data, which is more than 2800 test metadata from UNEP and some from FAO and WFP.
- 4.3. Chose a unique site ID. For standardization set it to "geonetwork-CENTER NAME". Provide the organization name e.g. CGIAR-CSI and a servlet name e.g. "geonetwork"
- 4.4. This version of geonetwork allows connecting to any database, so there is a JDBC configuration section. In the JDBC configuration section choose the MkCoy database the JDBC url should be left unchanged; this option will install also the mkcoy database, so one does not have to provide another database. One can choose any username and password to grant access to this database. Just before copying the test metadata the installer tells asks to copy some jar file in case one accessed an external database.
- 4.5. If you plan to use a DBMS like Oracle or MySQL, please install the related package and make sure that the DBMS is already up and running.
- 4.6. If you plan to use the McKoi DBMS, you need only to install the McKoi packages (driver and data files). The setup will automatically start/stop the McKoi server.
- 4.7. Specify the SMTP server that will be used to send emails and leave the Z39.50 port at its default value as mentioned above.
- 4.8. The installation may take several minutes since it has to copy all the test metadata into the database.

5. In order to link GeoNetwork and tomcat you have to add the following lines to the %TOMCAT-
DIR%/conf/server.xml file:

```
<Context
  path="/SERVLET"
  docBase="INSTALL_PATH/web"
  crossContext="false"
  debug="0"
  reloadable="false" />
```

Where SERVLET is the servlet name you have chosen and INSTALL_PATH is where GeoNetwork has been installed.

6. Stop and start Tomcat through the Tomcat commands.
7. Execute Geonetwork in a browser <http://localhost/geonetwork>

The first start up of GeoNetwork takes several minutes to reindex the metadata. If geonetwork does not start, restart the computer and try again.