

NDM Network Editor

- http://download.oracle.com/otn/other/spatial/ndm_editor_demo10gr2.zip
 - (referenced by http://www.oracle.com/technology/sample_code/products/spatial/index.html)

The NDM Network Editor is a standalone Java client application that facilitates editing network data, enables browsing and navigating the network, and more importantly visualizes the result of network analyzes for users.

MapViewer

Enables visualizing spatial data.

Requirements

Instructions are taken from the book Pro Oracle Spatial pp.389-393 and adapted to MapViewer version ⇒10.1.2.0.2

- Download Oracle Containers for Java EE - <http://www.oracle.com/technology/tech/java/oc4j/index.html> e.g. http://download.oracle.com/otn/java/oc4j/11110/oc4j_11110_preview.zip
 - Unzip the archive into the new directory (further in the text - \$OC4J_HOME)
- Download MapViewer - http://download.oracle.com/otn/other/mapviewer/mapviewer_10131.zip
 - Unzip the archive into OC4J's \$OC4J_HOME/lbs directory
 - Ensure the extracted mapviewer.ear has write permissions by owner:

```
chmod u+w $OC4J_HOME/lbs/mapviewer.ear
```

- Add the following line to the file \$OC4J_HOME/j2ee/home/config/server.xml inside the <application-server> element:

```
<application name="MapViewer" path="../../../lbs/mapviewer.ear" start="true" />
```

- Add the following line to the file \$OC4J_HOME/j2ee/home/config/default-web-site.xml inside the <web-site> element:

```
<web-app application="MapViewer" name="web" root="/mapviewer" load-on-startup="true" />
```

- Change directory to \$OC4J_HOME/j2ee/home
- Launch the OC4J Server by executing the command and (for the first time) providing the new administrative password:

```
java -jar oc4j.jar
```

- Access the MapViewer application in

<http://localhost:8888/mapviewer>

- To start using MapViewer, a datasource has to be defined. Go to Admin→Datasources and add the datasource information for the bz10m.inf.unibz.it server
 - **Hint:** MapViewer forgets all datasources once oc4j server is restarted. To have a datasource permanently, edit the file `$OC4J_HOME/lbs/mapviewer/web/WEB-INF/conf/mapViewerConfig.xml` by uncommenting the Predefined Data Sources section and entering:

```
<map_data_source name="orcl"
    jdbc_host="bz10m.inf.unibz.it"
    jdbc_sid="orcl"
    jdbc_port="1521"
    jdbc_user="user"
    jdbc_password="pass"
    jdbc_mode="thin"
    number_of_mappers="3"
    allow_jdbc_theme_based_foi="false"
/>
<!-- The password will become encrypted after server restart -->
```

Hints

A convenient application for displaying up to 3 layers of spatial data is JView demp app:

<http://localhost:8888/mapviewer/demo/jview.jsp>

Enter the following query to visualize Bolzano roads:

```
SELECT GEOMETRY FROM BZ_ROADS_LINK$
```

Note you have to omit a semicolon (" ; ") in the end of the SQL query

In the "Label Column" you can enter e.g. a LINK_NAME, so each link will have its name (street name) on the map.

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