

## NDM Network Editor

- [http://download.oracle.com/otn/other/spatial/ndm\\_editor\\_demo10gr2.zip](http://download.oracle.com/otn/other/spatial/ndm_editor_demo10gr2.zip)
  - (referenced by [http://www.oracle.com/technology/sample\\_code/products/spatial/index.html](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](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](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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