Software Engineering
& Project Management

SEPM X-Translator

Smallworld and TFM/TFD Formats

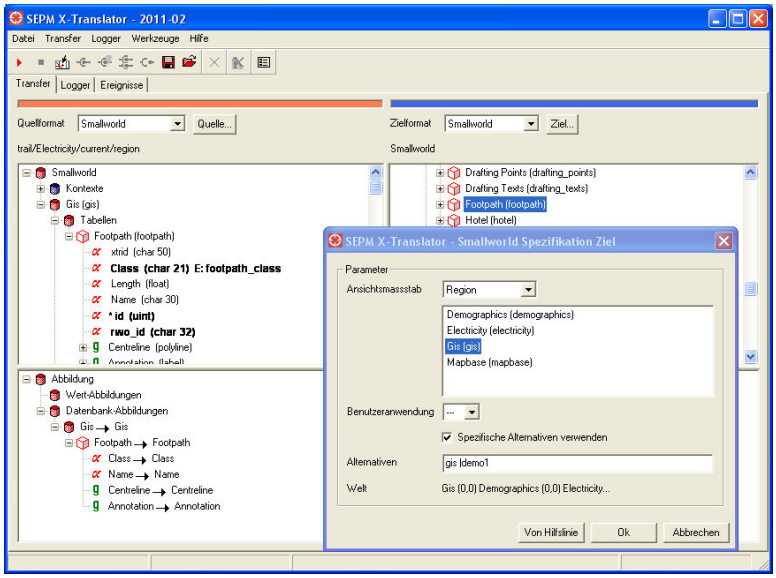
Smallworld users can use the X-Translator ***Smallworld*** and ***TFM/TFD*** formats ***for free***. These formats are supported by SEPM, even if you have not licensed any other SEPM formats.

Applications

The following use cases are covered:

- ***Copy data*** from a Smallworld database to another Smallworld database
- When using the ***Oracle SOM*** data can also be copied from Oracle to Smallworld or vice versa
- Transfer data from a Smallworld database from a source alternative into a ***different target alternative****
- Store data in the SEPM ***TFM/TFD-Format*** (for archiving purposes or to copy it to another system)
- Load data in the SEPM ***TFM/TFD-Format***

*Starting with version 2011-02. Only experienced users should use this functionality.



*Example: Copy from the current Alternative into the target alternative **test1** of the same database collection*

Translator Feature Model / Data

TFM

Comprehensive method for modeling GIS data and their metadata

Databases
Collections
Attributes
Enumerators
Geometries
Relations
Styles
Internal worlds
Symbols (TSM/TSD)
Geometry visibilities
Applications and Themes

TFD

Definition of the data corresponding to a Translator Feature Model

Incremental transfer, multi-part geometries, Area-, line-, point- and text-geometries, arcs and elliptical arcs, etc.

The ***TFM/TFD*** is simple to implement and covered through a compact and readable specification

Example TFM

```
<?xml version ="1.0" encoding ="UTF-8"?>
<translator version="2011-02"
xmlns="http://www.sepm.ch/xtr_2009_03">
 <model>
  <model_dataset name="gis"
    external_name="Gis">
   <model_collection name="footpath"
     external_name="Footpath">
    <model_attribute name="class"
      external_name="Class" type="char"
      size="21" is_mandatory="true"
      enumerator="footpath_class" />
    <model_attribute name="length"
      external_name="Length" type="float"
      size="1"  unit="m" />
    <model_attribute name="name"
     external_name="Name" type="char"
     size="30"  />
    <model_attribute name="id"
      external_name="id" type="uint"
      size="1" is_mandatory="true"
      is_key="true"
      is_autoincrement="true" />
    <model_geometry name="centre_line"
      external_name="Centreline"
      type="polyline"  minscale="0"
      maxscale="1000000000">
     <model_style_set name="region"
       external_name="Region"
       is_default="true" minscale="0"
       maxscale="100000000" scale="100000">
      <model_style name="0"
        external_name="Centreline"
        line_dashes="4_4" line_width="2"
        foreground_color="7237230" />
     </model_style_set>
    </model_geometry>
   </model_collection>
   <model_enumerator name="footpath_class">
    <model_enumerator_value
      value="Pedestrian Surfaced"
      key="1" />
    <model_enumerator_value
      value="Pedestrian Unsurfaced"
      key="2" />
    <model_enumerator_value
      value="Cycle Path"
      key="3" />
    <model_enumerator_value
      value="Bridle Path"
      key="4" />
    <model_enumerator_value
      value="Unknown"
      key="5" />
   </model_enumerator>
  </model_dataset>
 </model>
</translator>
```


Software Engineering & Project Management
Gerliswilstrasse 42 CH-6020 Emmenbrücke Switzerland
Tel. +41 79 632 28 20 Fax +41 41 260 57 20 www.sepm.ch info@sepm.ch