



# SEPM X-Translator

## Smallworld and TFM/TFD Formats

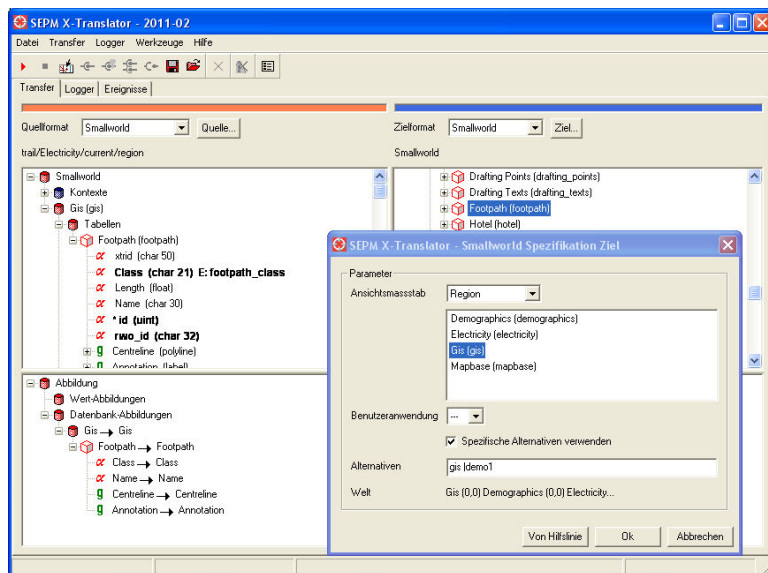
Smallworld users can use the X-Translator **Smallworld** and **TFM/TFD** formats **for free**. These formats are supported by SEPM, even if you have not licensed any other SEPM formats.

### 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="100000000">
<model_style_set name="region"
external_name="Region"
is_default="true" minscale="0"
maxscale="100000000" scale="10000">
<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>
```