

Schema Mapping Tool



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Overview

- Requirements
- Concept & Workflow
- Mapping Process
- Live Demonstration

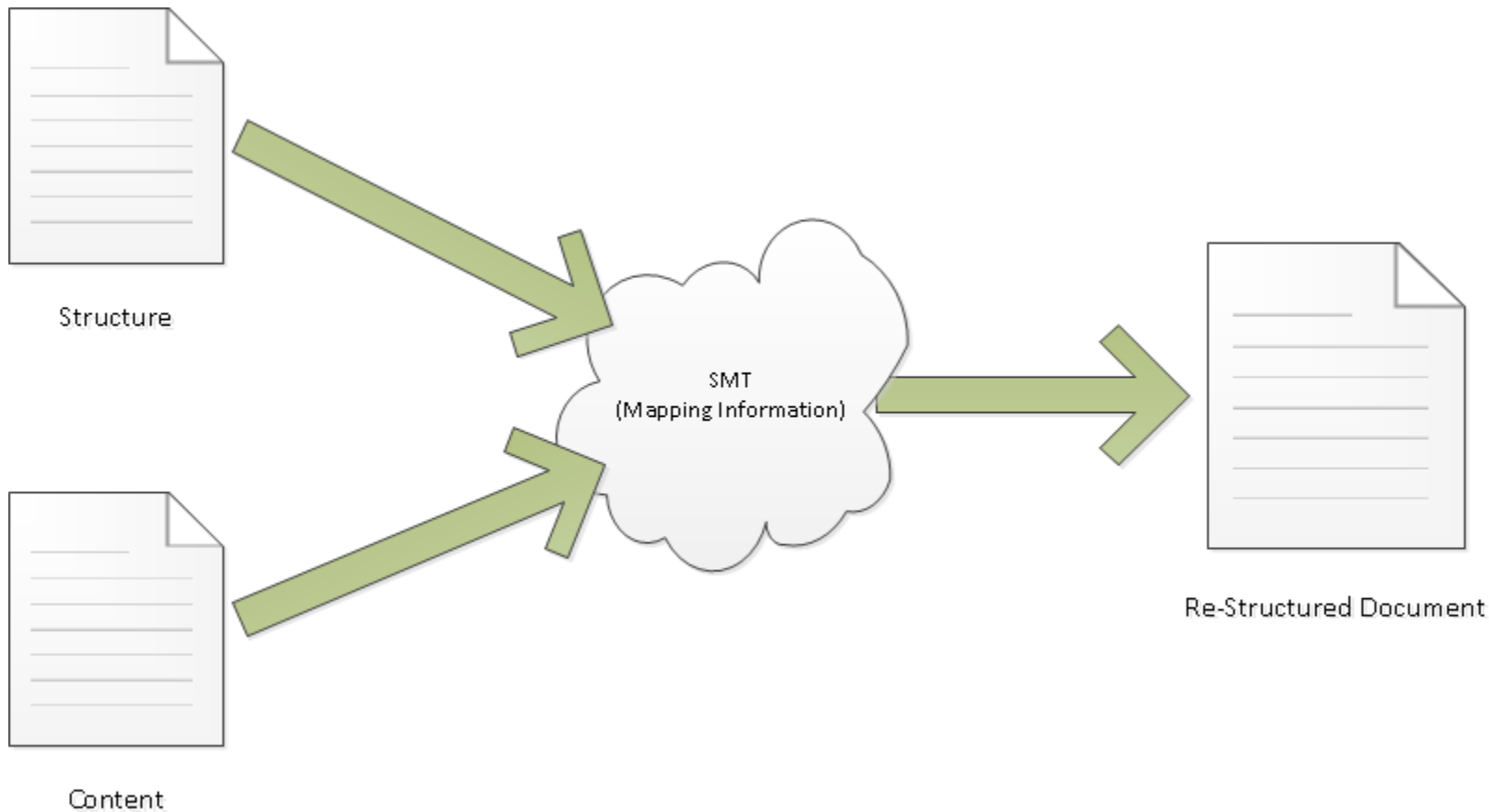
Requirements

- Java Applet
- Webbrowser
- Working Java Installation
- Available at <http://code.google.com/p/schema-mapping-tool/>

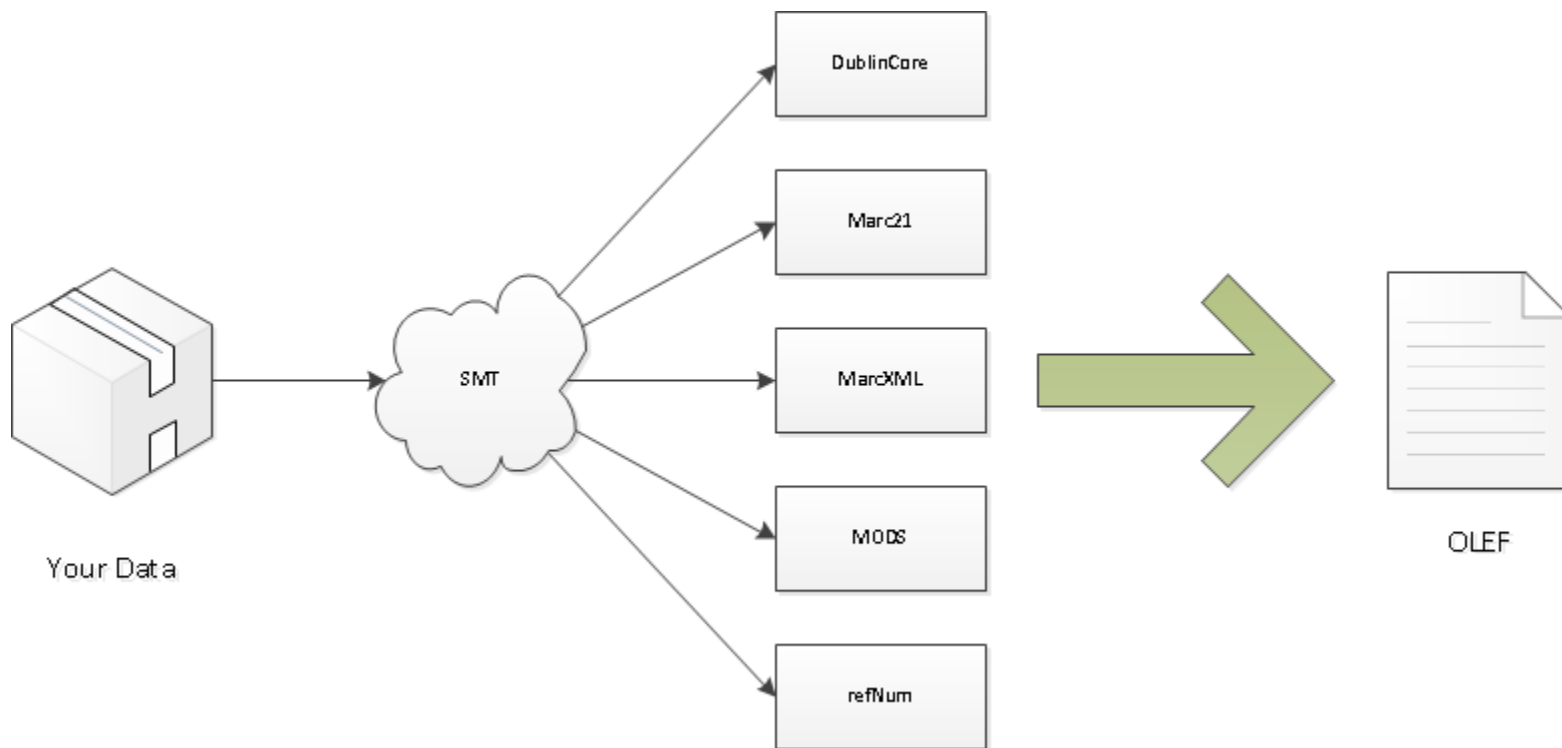
Concept

- Structure of input / output
- Content
 - Actual data to be processed
- Various formats supported
 - MySQL, PostgreSQL
 - Excel, MARC, XML, CDS/ISIS
 - etc.

Workflow



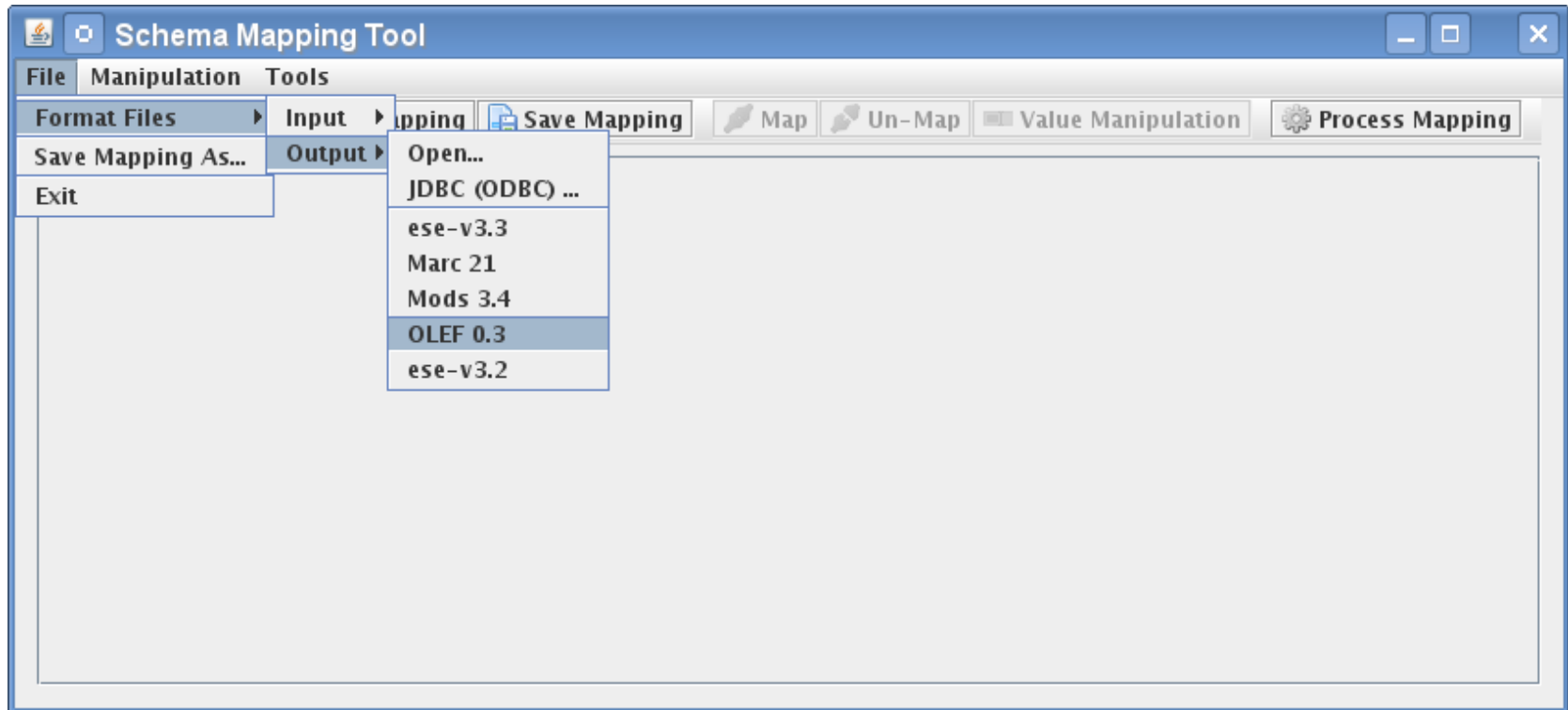
Mapping to OLEF



Mapping Process - Overview

- Load input and output structure
- Create mappings
- Apply value manipulations (optional)
- Setup processing options
- Process data
- Review output

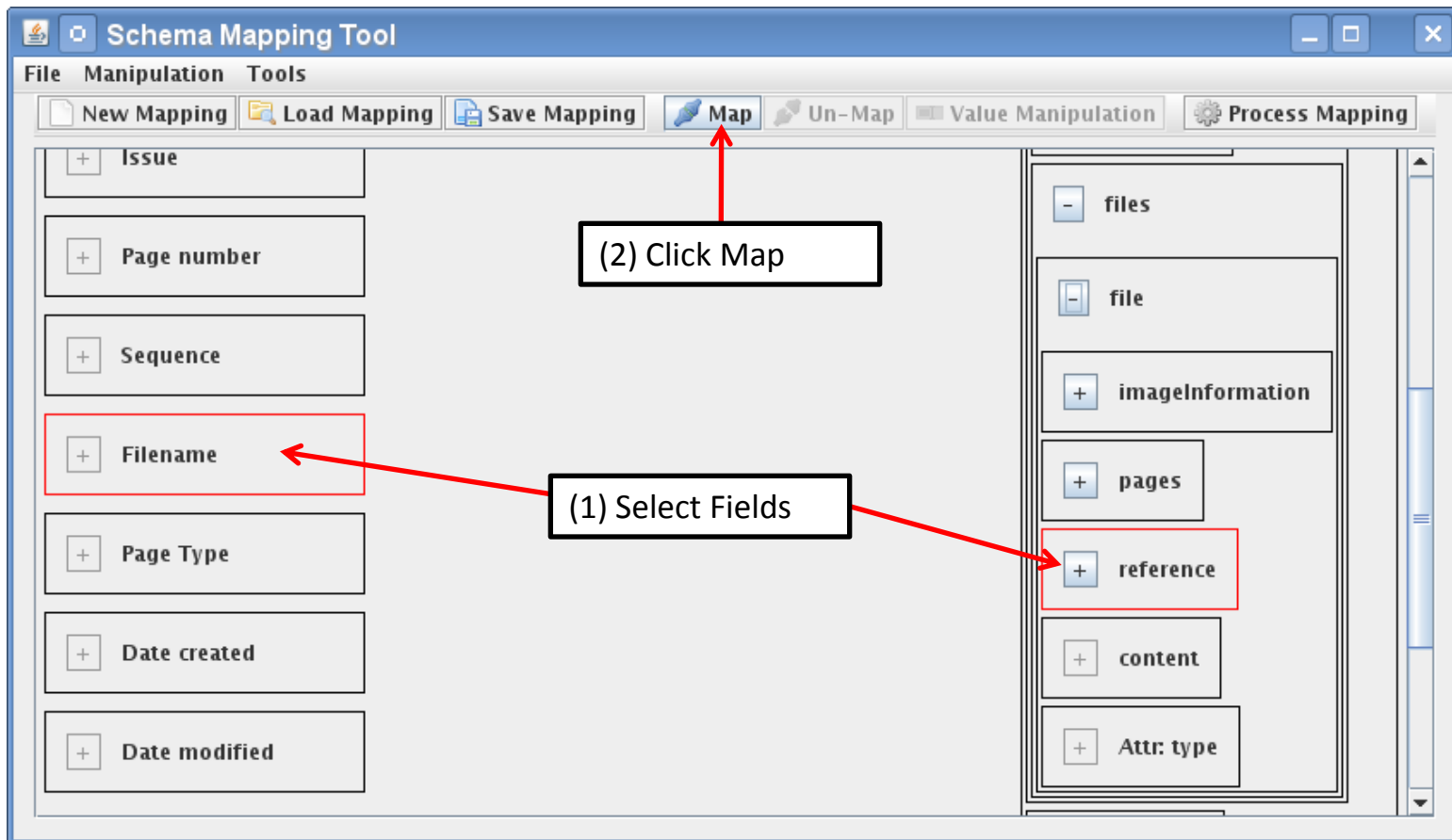
Mapping Process - Load input and output structure



Mapping Process - Load input and output structure

- Load structure for mapping
- File -> Format Files -> Input / Output
- Pre-Created standard structure (OLEF, ESE, MODS, etc.)
- Custom structure (XML, XSD, CSV, etc.)

Mapping Process – Create mappings



Mapping Process – Apply value manipulations

(1) Select Fields

(2) Click Value Manipulation

Mapping Process – Mappings & Manipulations

- Select input and output field (highlighted)
- Click “Map”

- Select existing, mapped, fields (highlighted)
- Click “Value Manipulation”
- Change options for manipulation (by adding / removing)

Mapping Process - Process data

The screenshot shows the 'Process Mapping' window with the following elements:

- Process Options:** Includes dropdowns for 'Input Format' (set to 'Excel') and 'Encoding' (set to 'UTF-8'), and 'Output Format' (set to 'XML') and 'Encoding' (set to 'UTF-8'). It also features an 'Input ID Prefix' text field, a 'New File every X entries' spinner set to '0', and 'Input Order' and 'Output Order' buttons.
- Input/Output:** A tabbed interface with 'Output' selected, showing a file path '/home/wkoller/Desktop/Mapped_OLEF_Output.xml' and a 'Select...' button.
- Mapping Progress:** A progress bar labeled 'Progress' and an 'Abort' button.
- Process:** A 'Process' button at the bottom right.

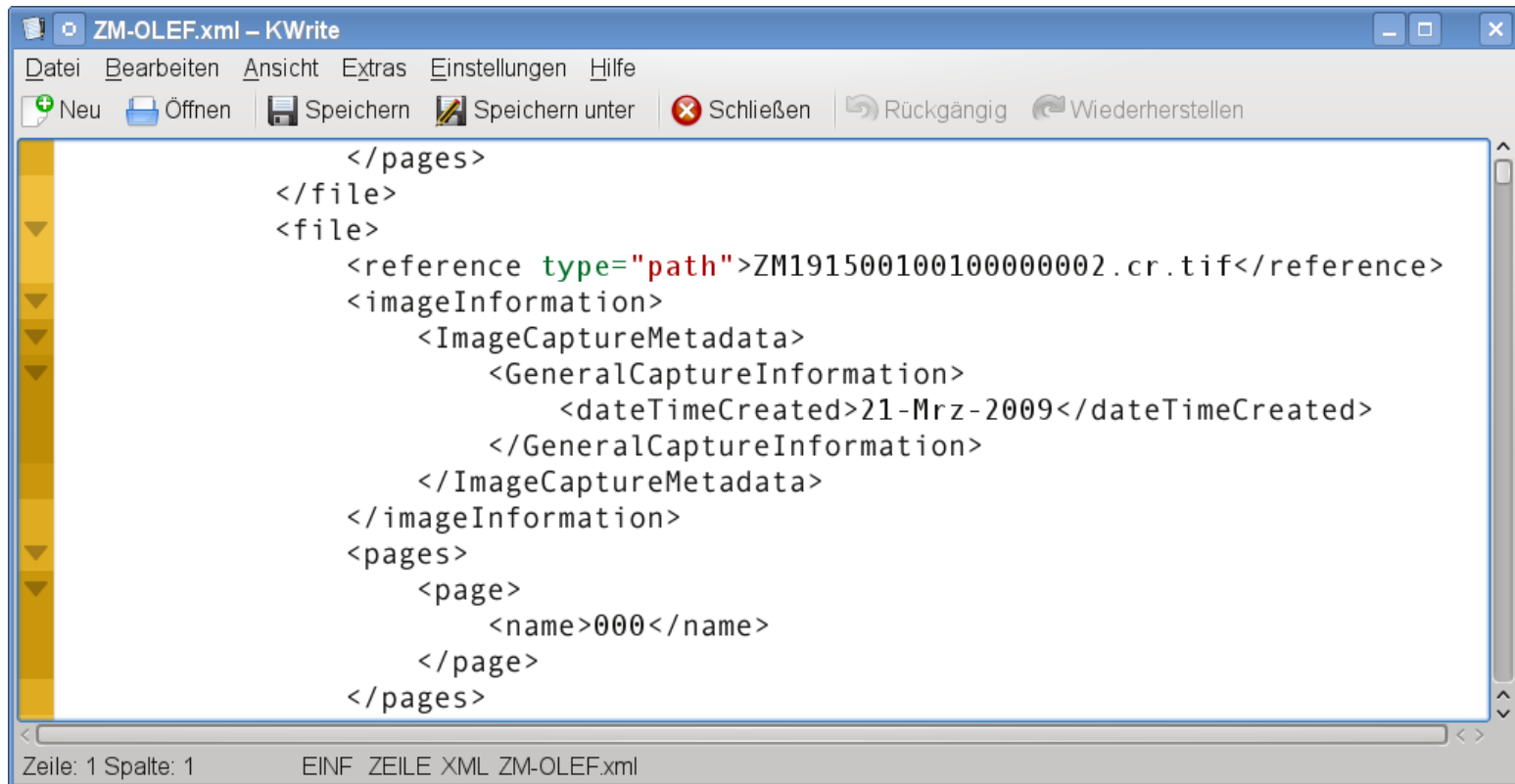
Three callout boxes with red arrows point to specific parts of the interface:

- (1) Select Format:** Points to the 'Input Format' dropdown menu.
- (2) Select Files:** Points to the 'Output' tab and the file path field.
- (3) Process Mapping:** Points to the 'Process' button.

Mapping Process - Process data

- Select input and output format (Excel, XML, etc.)
- Select files for input and output
- (optional) Save processing options using “Save” menu
- Process mapping by clicking on “Process”

Mapping Process – Review output



```
    </pages>
  </file>
  <file>
    <reference type="path">ZM191500100100000002.cr.tif</reference>
    <imageInformation>
      <ImageCaptureMetadata>
        <GeneralCaptureInformation>
          <dateTimeCreated>21-Mrz-2009</dateTimeCreated>
        </GeneralCaptureInformation>
      </ImageCaptureMetadata>
    </imageInformation>
    <pages>
      <page>
        <name>000</name>
      </page>
    </pages>
  </file>
</root>
```

Zeile: 1 Spalte: 1 EINF ZEILE XML ZM-OLEF.xml

Live Demonstration

References

- SMT sourcecode: <http://code.google.com/p/schema-mapping-tool/>
- SMT Live: <http://bhl.nhm-wien.ac.at/smt/launch.html>
- OLEF Documentation: <http://www.bhl-europe.eu/bhl-schema/v0.3/>