Transformation service

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Purposes

- Transform metadata from one format (Application profile) to others
  - Structural transformation
  - Vocabulary crosswalks
- Generate metadata from IMS cartridges

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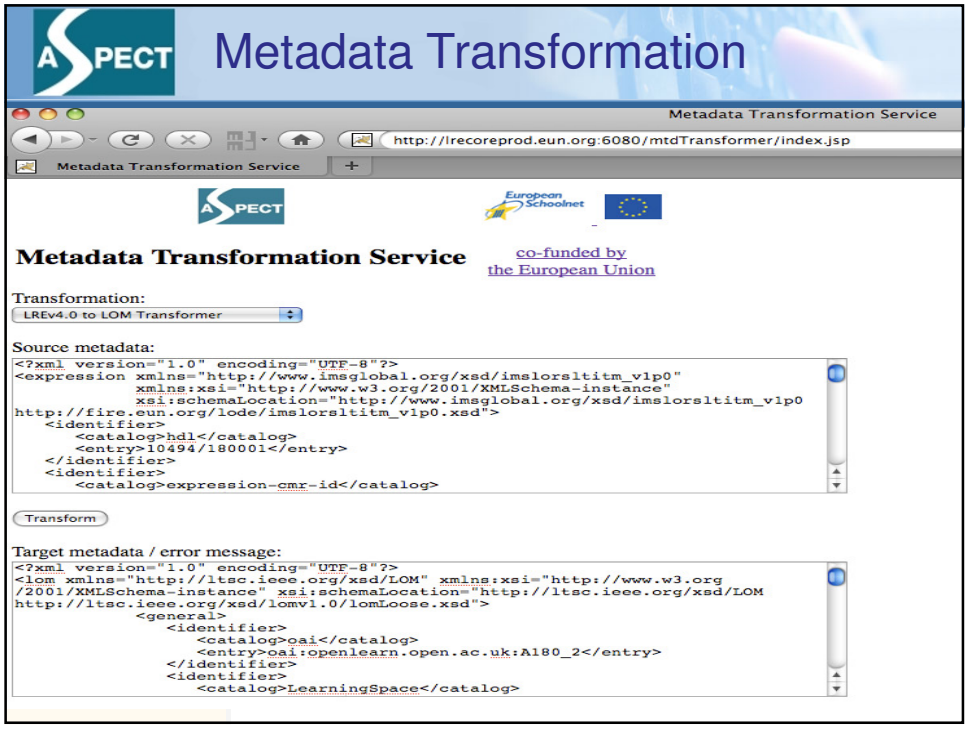
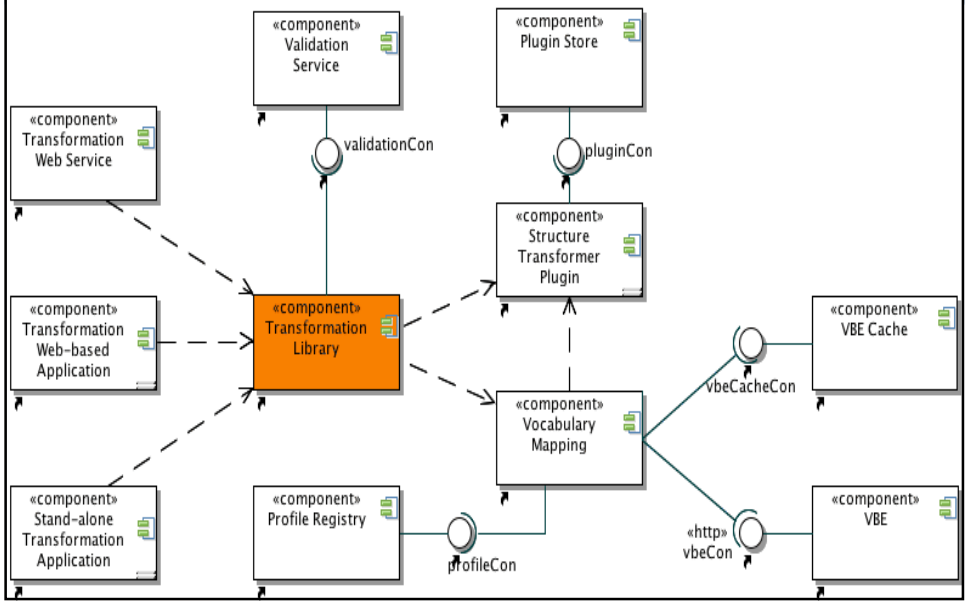
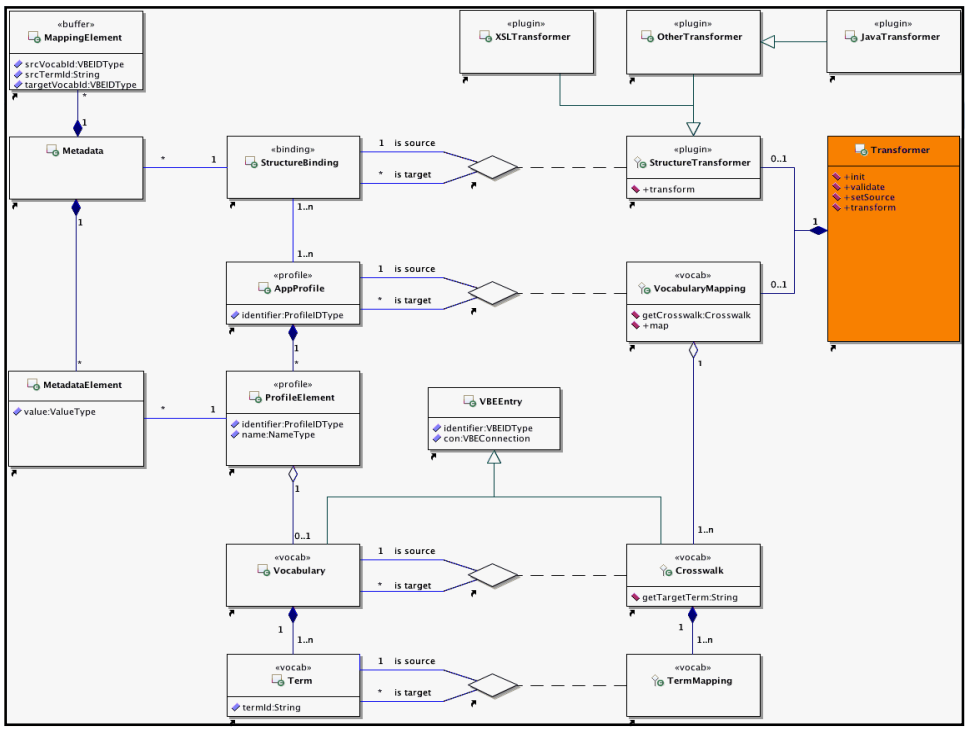
Metadata Transformation



Plugin Architecture





Demo

- Online demo
  - http://lrecoreprod.eun.org:6080/mtdTransformer/index.jsp
  - 5 plugins available
    - LREv3.0 to LREv4.0 transformation
    - LREv4.0 to LOM Loose transformation
    - LOM Strict to LREv4.0 transformation with “Learning Resource Type” crosswalk
    - Hello Java transformation (to demonstrate a Java-based plugin)
    - Hello XSL transformation (to demonstrate an XSL plugin)
- Source code
  - https://lretools.svn.sourceforge.net/svnroot/lretools/trunk/transformation-service

Cartridges to Metadata

- Main scenario
  - Content publisher uploads a cartridge
  - The transformer stores the uploaded cartridge in a working folder
  - The transformer generates a new identifier for the cartridge
  - The transformer puts the cartridge online and gets the corresponding URL
  - The transformer generates a metadata record

Cartridge Transformation Page

General information

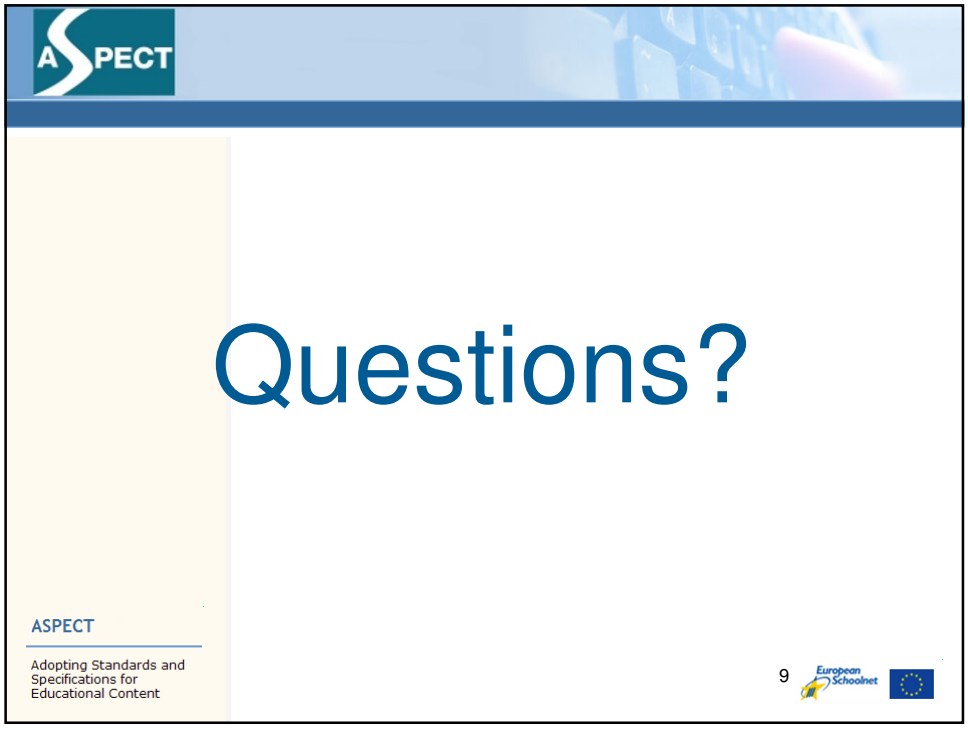
Cartridge identifier: 200000002
Cartridge location: http://lretestfiles.eun.org/ccPackages/free_200000002.zip
IMSLODE ILOX Metadata URL: http://lrecoretest.eun.org:28080/oaitarget/OAIHandler?verb=GetRecord&metadataPrefix=oai_ilox&identifier=oai:oaicat.eun.org:200000002

Generated metadata

```
<?xml version="1.0" encoding="UTF-8"?>

<work xmlns="http://www.imsglobal.org/xsd/lodeilox_v1p0/digital_LO"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.imsglobal.org/xsd/lodeilox_v1p0/digital_LO
http://www.imsglobal.org/xsd/imsloilox_v1p0_ilox_work_v1p0.xsd">
<identifier>
<catalog>hdl</catalog>
<entry>10494/200000002</entry>
</identifier>
<identifier>
```

Go to the Cartridge Upload Page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