D4.2.1 - Licence Selection Tool

Reference Implementation Documentation

This deliverable is software.
eContentplus

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## Distribution

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<th>Name</th>
<th>Role in project</th>
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<td>July 22, 2010</td>
<td>Paul Keller</td>
<td>Task Leader</td>
</tr>
<tr>
<td>0.2</td>
<td>July 25, 2010</td>
<td>Patrick Peiffer</td>
<td>WP leader</td>
</tr>
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<td>0.3</td>
<td>July 30, 2010</td>
<td>Reinhard Altenhöner, Antoine Isaac</td>
<td>reviewers</td>
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<td>1.0</td>
<td>July 18, 2010</td>
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## Approval

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<td>Patrick Peiffer</td>
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<td>Antoine Isaac</td>
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<td>Max Kaiser</td>
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## Revisions

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<td>Draft</td>
<td>Maarten Zeinstra</td>
<td>July 22, 2010</td>
<td>Initial Draft</td>
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<td>0.2</td>
<td>Draft</td>
<td>Paul Keller</td>
<td>July 25, 2010</td>
<td>Minor changes, clarifications</td>
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<td>Patrick Peiffer</td>
<td>July 29, 2010</td>
<td>Minor changes</td>
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<td>1.0</td>
<td>Final</td>
<td>Maarten Zeinstra</td>
<td>August 18, 2010</td>
<td>Incorporated Review Comments</td>
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Description of software developed for Europeana within EuropeanaConnect

The Licence Selection tool helps data providers and data aggregators to choose between the different rights statements that need to be selected per element or dataset. For further information about the different licences see the Europeana Semantic Element Specification (ESE version 3.2.3 onwards) [http://version1.europeana.eu/c/document_library/get_file?uuid=c56f82a4-8191-42fa-9379-4d5ff8c4ff75&groupId=10602](http://version1.europeana.eu/c/document_library/get_file?uuid=c56f82a4-8191-42fa-9379-4d5ff8c4ff75&groupId=10602), particularly the europeana:rights field.

<table>
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<tr>
<th>Link to software</th>
<th><a href="http://test.kl.nl/europeana/license_selection_tool/License_Selection_Tool.html">http://test.kl.nl/europeana/license_selection_tool/License_Selection_Tool.html</a></th>
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<tr>
<td>Login information</td>
<td>NA</td>
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<tr>
<td>Development environment</td>
<td>Eclipse / Google Web Tools</td>
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<tr>
<td>Programming language used</td>
<td>JAVA / Google Web Tools (client side only)</td>
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<td>Application server used</td>
<td>NA</td>
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<tr>
<td>Database requirements</td>
<td>No database connection required</td>
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<tr>
<td>Operating system requirements</td>
<td>Web based cross platform</td>
</tr>
<tr>
<td>Port requirements / default ports used</td>
<td>No special settings needed</td>
</tr>
<tr>
<td>Interface</td>
<td>Web service</td>
</tr>
<tr>
<td>Licensing conditions</td>
<td>GNU GPL licence v.2.0 / EUPL v.1.1</td>
</tr>
</tbody>
</table>

Note: In the URL of the software, the noun “licence” is spelled in US-english (“license”), however throughout the deliverable, UK-english spelling is used.
Reference Implementation

The licence selection tool beta stand-alone tool as it can be found on its test server and EuropeanaLabs is a proof of concept of simple and insightful licence selection for Europeana objects. This reference implementation describes what is needed to integrate this tool within the Europeana ingestion process. Europeana office and EuropeanaConnect WP4 decided that this tool will not reach a production version in a stand-alone format, but will be integrated with the SIP Creator that is under development at Europeana Office. Office and WP4 will work together into fitting this project within the SIP Creator.

Summary of requirements

The Licence Selection tool needs to assist data providers to mark up the mandatory field of ESE\(^1\)/EDM\(^2\) europeana:rights. Each object/record needs to communicate the right statements that hold the copyright status of the work that is to be ingested in Europeana.

Two distinct types of statements are allowed in this field: Europeana Right Statements and Creative Commons Licences. The format of these statements is always a URI to the location where details of these statements are located. This can be depicted graphically in the following manner.

Europeana Rights Framework

Always uses the content of Europeana:rights

```
<europeana:rights>
http://www.europeana.eu/rights/...
</europeana:rights>
```

Possible Licenses:
1. pd
2. rr-f
3. rr-r
4. rr-p
5. unknown

Possible Licenses:
1. licenses/by
2. licenses/by-sa
3. licenses/by-nc
4. licenses/by-nd
5. licenses/by-nc-sa
6. licenses/by-nc-nd
7. publicdomain/cc0

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\(^1\) See also [http://www.europeana.eu/schemas/ese/ESE-V3.3.xsd](http://www.europeana.eu/schemas/ese/ESE-V3.3.xsd) or contact Antoine Isaac for further specifications on this subject.

\(^2\) EDM will replace ESE in later versions of metadata structuring. See [http://group.europeana.eu/c/document_library/get_file?uuid=718a3828-6468-4e94-a9e7-7945c55ec65&groupId=10605](http://group.europeana.eu/c/document_library/get_file?uuid=718a3828-6468-4e94-a9e7-7945c55ec65&groupId=10605)
Each creative commons licence can be a ported version of a specific jurisdiction and language and can also have different versions. In all over 500 possible creative commons licences can be specified, but these all are versions of the 7 mentioned above. All should be allowable as valid data of this field.

Europeana right statements, the left branch of the graph, cover all licences that are not Creative Commons Licences. These are blanket statements for rights reserved works (rr-f, rr-r, rr-p), public domain works(pd), and orphaned works(unknown). Rights reserved works statement fall apart according to the access an end-user of Europeana has (Free Access [rr-f], Restricted Access [rr-r], Paid Access [rr-p]).

A graphical decision making process has been developed as a guideline for the development of this tool:

- Is the work in the public domain? Yes → http://www.europeana.eu/rights/pd/
- No
  - Is the copyright holder of this work known? No → http://www.europeana.eu/rights/unknown/
  - Yes → Creative Commons License Selection Tool
  - Does a Creative Commons License apply? Yes → Creative Commons License Selection Tool
  - No
    - Is the work accessible without restrictions? Yes → http://www.europeana.eu/rights/rr-f/
    - No
      - Is the work freely accessible after registration or other actions that need a form of administration? Yes → http://www.europeana.eu/rights/rr-r/
      - No
        - Payment is required before this object can be viewed. Yes → http://www.europeana.eu/rights/rr-p/
This chart does not include the process of selecting a Creative Commons licence. Creative Commons has an API and a (software) library that can be implemented here. Also if Creative Commons Licences are used as right statement then it is mostly not needed to go into the licence selection tool of Creative Commons as in those cases it would be rather more a case of provider policy to apply those licences. The tool will include this library and enable the user to select a Creative Commons licence and the cc0 statement.

The first question of this flowchart is very complex and depends on many factors. To help answer this question WP4 of EuropeanaConnect is also developing a Public Domain Helper tool that can determine with some certainty if a work is in the public domain in the country of the data provider. This tool will be referenced at that step and will be publicly available as a stand-alone tool. See D4.2.2 – Europeana Public Domain Helper Tool, stand-alone reference implementation and implementation guidelines (online reference) for a reference guide of that tool.

To summarize the requirements of the licence selection tool: it needs to be able to validate and help data providers to select a licence/right statement using the restrictions that are stated above.

**Input and Output of Licence Selection Tool**

Each record needs to have a europeana:rights field, this needs to be mapped or statically added to each record. Data providers need to be able to select from all available licences. Input of this tool is solely the providers input and choices.

The output of the tool will be an URI that points to a Europeana Rights Page or a Creative Commons licence page. This output will be added to the ESE/EDM document that will be used in the ingestion process. All valid outputs are covered by the ESE 3.3 documentation.

**Practical: Including the licence selection tool in the SIP Creator**

There are some differences between the stand-alone beta tool and the SIP Creator. Both are written in Java, although the beta tool uses the GWT platform and the SIP Creator uses Java to create a desktop application. This difference means that the licence selection tool will be rewritten for inclusion in the SIP Creator.

This software will need to be as modular as possible to be easily swapped with newer license selection tools in case of newer versions of the licensing framework of Europeana. This concern has been identified by the developers of this tool and is considered an architectural issue that is being addressed in implementing this tool in the SIP Creator.

There is also a difference in scope, where the Licence Selection Tool has a focus on selection a licence on a per work basis, the SIP Creator has a per set scope. This will entail that the developers need to rethink how this can best be matched. One possible solution is to mark up ‘Groovy’ examples of automatic mapping based on information that is already available in the metadata of the data provider. Another would be to encourage data providers to make different sets based on the copyright status of the work that is to be included in Europeana.

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3 Creative Commons’ own license selection tool can be found at http://www.creativecommons.org/choose/

4 [http://www.europeana.eu/schemas/ese/ESE-V3.3.xsd](http://www.europeana.eu/schemas/ese/ESE-V3.3.xsd)

5 A Java programming language derivative, which enables the SIP Creator to be more flexible.
These practical implications mean that the beta tool that was developed by WP4 has done its job in researching and designing the structure of a license selection tool. The product in its current form will not be further developed, a new license selection tool that uses the reference implementation will be built by the developers of the SIP Creator in close collaboration with Task 4.4, under D4.4.1 – Tested Europeana Licence Selection Tool and user guides, functional specification ready for final implementation in Europeana. This work is already in an advanced stage of development at the time this document was written\(^6\).

\(^6\) See the work done on the SIP Creator on EuropeanaLabs