
## Grant Agreement 297292

# *EUROPEANA INSIDE*

# Export Evaluation Report

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| **Deliverable number** | *D4.3 (v1)* |
| **Dissemination level** | *Public* |
| **Delivery date** | *May 2014* |
| **Status** | *Final* |
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This project is funded under the
*ICT Policy Support Programme* part of the
*Competitiveness and Innovation Framework Programme*.

# Revision History

| Revision | Date | Author | Organisation | Description |
|---|---|---|---|---|
| v0.1 | 2014-05-22 | Nathalie Poot | KMKG | Draft |
| v1.0 | 2014-05-28 | Nathalie Poot | KMKG | Final version – review all partners |

## Statement of originality:

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

# Contents

# 1 Introduction

## 1.1 Background and role of the deliverable in the project

This report is part of Work Package 4 (WP4). This Work Package is dedicated to the **coordination of content** to Europeana: more than 960,000 records will be delivered using the Europeana Connection Kit (ECK). In the delivery process, the **robustness of the prototype ECK** will be evaluated.

This deliverable reports on the outcome of *Task 4.2 Full Content Export*. This task implements an export from the content provider systems with new ECK functionalities of the content to be contributed to Europeana

It is the first of two deliverables:

- *D4.3 (v1) Export Evaluation Report* (M26 – May 2014) presents the results of testing the **third prototype release of the ECK (iteration 3)**. This iteration was released in M24 (March 2014), testing and feedback took place in M25 (April 2014).
- *D4.3 (v2) Export Evaluation Report* (M29 – August 2014) will be an update of *D4.3(v1) Export Evaluation Report.* It will present the results of **testing the production version of the ECK (iteration 4).** This final iteration is planned to be released in M27 (June 2014) and will be tested in M28 (July 2014).

In the previous two deliverables test content was used to test iteration 1 and iteration 2 ECK:

- *D4.1(v1) Control Export Evaluation Report* (M16 - July 2013) presented the results of the **first prototype release of the ECK (iteration 1).** This iteration was released in M13 (April 2013), testing took place in M14 (May 2013).
- *D4.1(v2) Control Export Evaluation Report* (M20 – November 2013): presented the results of the **second prototype release of the ECK (iteration 2)**. This iteration was released in M18 (September 2013), testing took place in M19 (October 2013).

The two versions of *D4.1 Control Export Evaluation Report* (*v1* in M16 and *v2* in M20) and the two versions of *D4.3 Export Evaluation Report (v1* in M26 and *v2* in M29) are part of the **iterative development plan**[1]. According to the Description of Work (DoW), WP4 was to start in M15 (June 2013) and end in M21 (December 2013). However it quickly became clear that the development schedule of the ECK as proposed in the DoW was unrealistic and changes were required to be able to follow a more agile approach as is commonly used in software development. A new development schedule has been drafted and takes into account four iterations of the ECK. For WP4, CPs test and report on each of these iterations after their release.

This deliverable represents the point of view from the content providers (CPs). It gives an insight into their experiences with the software the technical partners (TPs) developed and released for iteration 3. It should be seen in close relation to *D4.6 Technical Specification* presented by K-INT in M25 (April 2014).

WP4 is further dependent on the **outputs of WP2, WP3 and WP5** for its deliverables. Iteration 3 ECK prototype was developed and released under WP5 (production). The previous iterations (iteration 1 in M12 and iteration 2 in M18) were developed and released as part of WP3 (development). The deliverables for WP4 also build on the previous reports within the work package.

[1] *D4.6 (v5) Technical Specification* (K-INT): appendix 1.

The development of the ECK and the evaluation of iteration 3 are based on:

- *D2.1 Requirement Analysis*: explanation of all ECK requirements, based on a survey among the project partners.
- *D2.2 Use Cases:* three use case scenarios.
- *D2.3 Recommendations for Technical Standards:* research on best practice and quality instruments already in place within the Europeana project family.
- *D2.4 Functional Requirement:* there are three kind of requirements: high level requirements, workflow requirements and non-functional requirements. The workflow requirements are identified as: manage, select, prepare, validate, supply, data acceptance and enrich and return.
- *D2.5 Technical Specification:* describes the overall architecture of the ECK.
- *D3.5 Technical Integration Report:* progress report on the development of the ECK.
- *D4.2 Content Export Schedule:* presents the schedule for content delivery. It specifies the order in which participating institutions carry out the export of their data using the ECK.
- *D4.1(v1) Control Export Evaluation Report:* report on the test results from iteration 1 ECK prototype.
- *D4.1(v2) Control Export Evaluation Report:* report on the test results from iteration 2 ECK prototype.
- *D4.6 (v5) Technical Specification*: report on the technical specifications of the ECK.
- *D4.4 Content Re-ingestion Report:* report on the test results of content re-ingestion as part of iteration 3 ECK prototype.
- *D4.5 (v1) Summative Evaluation Report:* a summative evaluation of the content delivery process to Europeana using the ECK.

*D4.3 (v1) Export Evaluation Report* evaluates the various tools that have been developed as part of ECK iteration 3. The report will provide an evaluation of the export process and highlight any issues which will inform the technical development.

The results presented will be used for:

- *D4.3 (v2) Export Evaluation Report:* an update of *D4.3 (v1) Export Evaluation Report.* It will report on the results of testing iteration 4 ECK, the production version.
- *D4.5 (v2) Summative Evaluation Report*: evaluates the outcomes of all export and re-ingestion activity and highlighting key issues for the final technical implementation.
- WP5: their object is to use the lessons learned in WP2, WP3 and WP4 to develop and launch a full production version of the ECKwith accompanying support and documentation materials.

## 1.2 Approach

In preparation of **testing of iteration 3 ECK,** the following approach was used:

1. **Informing content partners** on the **test process** for iteration 3:

   A **test plan** for testing iteration 3 and **three evaluation forms** were provided to all partners via Basecamp in M24 (March 2014).

   All CPs and TPs were asked to complete three evaluation forms:

   - Acceptance and usability test form iteration 3
   - Content Providers Survey iteration 3
   - Content Providers Survey iteration 3 on content re-ingestion

2. Before the release of iteration 3 ECK **meetings in small groups were held** with TPs and CPs from the testing groups on Basecamp. This gave TPs the opportunity to present what they developed for iteration 3 and how it needed to be tested. The meetings were held at the **3rd Networking Event in Athens** (M25 – April 2014).

## 1.3 Structure of the deliverable

This deliverable reports on the **outcome of testing iteration 3 ECK prototype.** The deliverable is structured in the following way:

- Preparing testing iteration 3 ECK prototype
- The results of testing the iteration 3 ECK prototype
- Conclusions and next steps
- APPENDIX I: Acceptance and Usability Test Forms iteration 3
- APPENDIX II: Content Providers Survey iteration 3

# *2* Preparing testing Iteration 3 ECK prototype

## 2.1 Development of the ECK in 4 iterative phases

The ECK is released in 4 iterative phases. Each of the 4 iterations include specific functionalities as described in *D2.4 Functional requirement* and *D4.6 (v5) Technical Specification.*

This **iterative approach** replaces the more traditional waterfall approach that was originally described in the DoW. One of the main advantages is that new functionality can be given to users sooner, allowing them to find flaws while there is still time to correct them in later iterations.

While the technical partners develop and implement the ECK, feedback is needed on the functionalities, bugs, usability and recommendations can be given for improvements. It is the responsibility of the content partners **to test and provide feedback on these different ECK releases.**

**Iteration 1 ECK prototype** considered all requirements from *D2.4: Functional Requirements* that have been designated as 'Must' haves with the exception of the actual data push and harvest interfaces onto Europeana and other aggregators. This iteration was mainly concerned with **selecting** and **preparing data**. Some other requirements (functional requirements marked as 'Should' or 'Could', High Level Requirements and non-functional requirements) have also been taken into account.

- The results of testing iteration 1 ECK are part of *D4.1(v1) Control Export Evaluation Report* (M16 - July 2013).

**Iteration 2 ECK prototype** focused on **management overview of status** and **data publication**. The testing was on the functional requirements that have been designated as 'Must' haves and that belong to all workflow steps. This iteration also included requirements that were planned, but not yet operational in iteration 1.

- The results of testing iteration 2 ECK are part of *D4.1(v2) Control Export Evaluation Report* (M20 – November 2013).

**Iteration 3 ECK prototype** is a refinement of the functionalities tested in the previous iterations and includes two new functionalities: **push or pull** and the **enrich and the return process** from the Europeana portal (content re-ingestion).

- This report focusses on the results of testing iteration 3 ECK. A separate report is written on the results of testing content re-ingestion *D4.4 Content Re-Ingestion Report* (M26 – May 2014).

## 2.2 CP – TP meetings at the 3rd Networking Event in Athens

The results of testing iteration 2 ECK were presented at the **Technical Partner meeting in Maribor** (M21 – December 2013). The **overall evaluation** of ECK iteration 2 was **good**. Some CPs however gave negative feedback on the test process (not enough time for testing and no documentation) and the usability (not all accepted functional requirements can easily be performed).

As a result, for the two remaining test phases, iteration 3 ECK and iteration 4 ECK, it was agreed that:

1) **Iteration 4 ECK would be released one month early:** According to the iterative development plan iteration 4 ECK was to be released in M28 (July 2014) and testing, feedback and reporting in M29 (August 2014). To give CPs one month time to test the final iteration, iteration

4 ECK will be released one month early in M27 (June 2014), so it can be tested in M28 (July 2014).

2) There would be more **focus on usability** in the evaluation forms for iterations 3 and 4. Additional columns were added in which CPs were given the opportunity to rate the functional requirements (very easy, easy, difficult, very difficult) and why.

In preparation of testing iteration 3 ECK, **meetings were held with the CPs and TPs** from the test groups from Basecamp. This gave TPs the opportunity to present their test plan for iteration 3 and CPs had the possibility to ask questions on how the testing needed to be performed.
Since iteration 3 was released in M24 (March 2014) and testing took place in M25 (April 2014) it was possible to hold the meetings at the **3rd Networking Event in Athens (M25).**

| **Group 1** | **Group 2** | **Group 3** | **Group 4 & 5** |
|---|---|---|---|
| K-INT, CT, KE Software, HOI and SSL | ZETCOM, PostScriptum, BEN, NAG, SPK and KMKG | DEN, Adlib, LIBIS (KU Leuven), iMinds, KADOC (KU Leuven) and RBINS | MON, SEM, PIM, HNM, FAB, SKINsoft, Mobydoc, SLV and SEI |
| Moderator: Phill Purdy (CT) | Moderator: Nathalie Poot (KMKG) | Moderator: Marco Streefkerk (DEN) | Moderator: Pieter Jan Valgaeren (iMinds) |

# 3 Test results

Iteration 3 ECK was released in M24 (March 2014), testing and evaluation took place in M25 (April 2014). The test process for testing iteration 3 was similar to testing iterations 1 and 2. An **overall test plan** was provided to all partners via Basecamp in M24 (March 2014). It was stressed that **good communication** and **co-operation** are crucial to make the testing and evaluation process run smoothly.

To gather as much feedback as possible, CPs and TPs were responsible for completing the **Acceptance and Usability test form i3**, the **Content Providers Survey i3** and **Content Providers Survey i3 on content re-ingestion**. The deadline for completing all forms was the 30th of April 2014 (M24). This gave all partners one month to test and report on the developed functionalities.

The evaluation forms were slightly adapted in comparison to testing iteration 1 and iteration 2:

- Since iteration 3 involved the testing of content re-ingestion, there was an additional survey: **Content Providers Survey i3 content re-ingestion**. The results are part of *D4.4 Content Re-ingestion Report.*
- More focus on usability: in the acceptance test form, columns are added so CPs can rate the functional requirement.

There are five commercial vendors of collection management systems in the consortium without a content partner in the project (KE Software, System Simulation (SSL), Adlib, Semantica and SKINsoft). They needed to find an associate partner to test with.
Semantica presented the results from their testing partners, the National Liberation Museum Maribor (MNOM) and Galerija Božidar Jakac (GBJ). The associate testing partners of the remaining technical partners were not able to complete testing in time (SKINsoft, KE Software, Adlib and SSL).

## 3.1 Acceptance and Usability Test Form i3

The **Acceptance and usability test form** included (Appendix I):

- Data push and harvest interfaces onto Europeana and other aggregators and requirements for content re-ingestion[2].
  The purpose is to evaluate whether the functional requirements were present and worked. CPs indicated in the Acceptance Test Forms whether the requirements were accepted (A), not accepted (NA) or not tested (NT).
- Columns on **usability**: CPs rated the requirements. How easy is it to understand and perform the functionality (very easy, easy, difficult or very difficult) and why?

**Who completed and submitted the evaluation form?**

- All CPs within the consortium tested and completed the evaluation form. There is one exception: the Szepmuveszeti Muzeum in Budapest (FAB). They did not participate in testing iteration 3 since their TP, Gallery Systems, an associate partner within Europeana Inside, was not able to complete the development and implementation in time. They will however be able to test the new functionalities as part of iteration 4 (M28 – July 2014).
- There were no evaluation forms from Xantys Limited / House of Images - HIM (UK).
- Erfgoedplus are not a content partner, but a subcontractor for LIBIS (KU Leuven).
- The National Liberation Museum Maribor (MNOM) and Galerija Božidar Jakac (GBJ) are both associated testing partners from Semantica.

[2] All the requirements are part of *D4.6 Technical Specification* (M25 – April 2014).

In the left column are all the functional requirements (FRs) listed that are tested for iteration 3 ECK. Some FRs are combined since most or all CPs indicated that all the FRs were either accepted (A), not accepted (NA) or not tested (NT). The right column is an indication of how many CPs indicated A, NA or NT and how they rated the usability.
'Accepted by most CPs' signifies that the requirement is accepted by more than half of the CPs.

| **Functional requirements (FRs)** | **Comments** |
|---|---|
| **MANAGE** | |
| *WFR.01.02 - Revision history* and *WFR.01.04 - PID management* | Acceptance: Accepted by most CPs. A few CPs indicated that they were not able to test it.<br>Usability: Rated 'very easy' and 'easy' |
| *WFR.01.01 - Export management* | Acceptance: Accepted by most CPs. A few CPs indicated that they were not able to test it.<br>Usability: Mostly rated 'very easy' or 'easy' |
| *WFR.01.05 - Enriched data management*: | None of the CPs were able to test this requirement due to changes that needed to be made by Europeana's API. |
| **SELECT** | |
| *WFR.02.01 - Selecting multiple records, WFR.02.02 - Selecting a single record, WFR.02.03 - Selecting records based on values, WFR.02.04 - Boolean operators, WFR.02.05 - Indication of selected fields, WFR.02.07 - Reuse saved queries* | Acceptance: Accepted by all CPs. Some CPs added that they were standard CMS functionality.<br>Usability: Mostly rated 'easy' |
| **PREPARE** | |
| *WFR.03.01 - Automatic EDM mapping* | Acceptance: CPs are divided: accepted (7) and not tested (6). CPs that indicated not tested explained that the CMS exports only LIDO. The conversion from LIDO to EDM is done in the DA.<br>Usability: Rated 'easy' and 'difficult' |
| *WFR.03.02 - Preview mapping* | Acceptance: CPs are divided: accepted (6) and not tested (7).<br>One of the arguments for 'not tested' is that the preview service only works on LIDO and not on EDM.<br>Usability: Mostly rated 'easy' |
| *WFR.03.03 - Editable mapping* | Acceptance: Accepted by most CPs.<br>Usability: Mostly rated 'difficult' to 'very difficult'. CPs argue that updating a mapping is not possible without technical assistance. |
| *WFR.03.04 - Mapping feedback, WFR.03.05 - Saving mapping* | Acceptance: Accepted by most CPs.<br>Usability: 'Mostly rated 'very easy' or 'easy' |
| *WFR.03.06 - Field explanations, WFR.03.07 - Automatic value insertion* | Acceptance: Accepted by most CPs.<br>Usability: Rated 'very difficult', 'difficult' and 'easy'. |
| *WFR.03.08 - Check digital asset availability* | Acceptance: Accepted by most CPs. |

| | |
|---|---|
| | Usability: Mostly rated ‘very easy’ or ‘easy’ |
| *WFR.03.09 - Thumbnail selection* | Acceptance: Accepted by most CPs.<br>Usability: Mostly rated ‘very easy’ or ‘easy’ |
| *WFR.03.10 - Multiple assets, WFR.03.11 - Defining media types, WFR.03.12 - Metadata field on IPR digital object, WFR.03.13 - Metadata field on IPR metadata, WFR.03.14 - Metadata field on IPR preview* | Acceptance: Accepted by most CPs.<br>Usability: Mostly rated ‘easy’. |
| *WFR.03.15 - Mark mandatory fields* | Acceptance: Accepted by most CPs.<br>Usability: Mostly rated ‘very easy’ and ‘easy’. |
| *WFR.03.16 - Choosing a default mapping* | Acceptance: Accepted by most CPs.<br>Usability: Mostly rated ‘very easy’. |
| *WFR.03.17 - Automatic data suggestion* | Acceptance: Not tested by most CPs. |
| *WFR.03.18 - Target format selection* | Acceptance: CPs are divided: accepted (7) and not tested (6).<br>Usability: Mostly rated ‘very easy’ or ‘easy’. |
| *WFR.03.19 - Semantic data enrichment* | Acceptance: CPs are divided: accepted (6) and not tested (7).<br>Usability: Mostly rated ‘very easy’ |
| *WFR.03.20 - Conditional mapping, WFR.03.21 - Nested or grouped mapping, WFR.03.24 - Apply PID, WFR.03.25 - Conditional field conversion* | Acceptance: Accepted by most CPs.<br>Usability: Mostly rated ‘difficult’ and ‘very difficult’. CPs argue that good technical knowledge or technical assistance is needed. |
| *WFR.03.22 - Intermediate format mapping* | Acceptance: Accepted by most CPs<br>Usability: Mostly rated ‘easy’ and ‘very difficult’. |
| *WFR.03.23 - Support for conditional truncation* | Acceptance: Accepted by most CPs. A few indicated not tested.<br>Usability: Mostly rated ‘difficult’ and ‘very difficult’: CPs argue that good technical knowledge or technical assistance is needed. |
| **VALIDATE** | |
| *WFR.04.01 – Validation, WFR.04.02 - Feedback on validation* | Acceptance: Accepted by most CPs. A few CPs indicated not tested.<br>Usability: Mostly rated ‘difficult’ and ‘very difficult’. It is not easy to understand the logfiles without technical knowledge or assistance. |
| *WFR.04.03 - Edit invalidated fields, WFR.04.04 - Automatic license validation* | Acceptance: CPs are divided: accepted (2), not accepted (5) and not tested (6).<br>Usability: Mostly rated ‘easy’ and ‘very easy’ |
| *WFR.04.05 - Test ingestion* | Acceptance: CPs are divided: accepted (5) and not tested (7).<br>Usability: Mostly rated ‘easy’ and ‘very easy’ |
| *WFR.04.06 - Align validation* | Acceptance: Not tested by most CPs. A few CPs accepted the FR. |

| | |
|---|---|
| | Usability: Rated 'very easy' by the ones that accepted the FR. |
| **SUPPLY** | |
| *WFR.05.01 - Automatic supply* | Acceptance: Accepted by most CPs.<br>Usability: Mostly rated 'easy' and 'very easy' |
| *WFR.05.02 - Re-supply functionality for failed records* | Acceptance: CPs are divided between accepted (4), not accepted (3) and not tested (6).<br>Usability: Mostly rated 'easy' and 'very easy' |
| *WFR.05.03 - Schedule data supply* | Acceptance: Not tested by most CPs. |
| *WFR.05.04 - Tools for third-party collaboration* | Acceptance: Not tested by most CPs. A few CPs accepted the FR.<br>Usability: Rated 'very easy' and 'difficult' by the few that accepted the FR. |
| **DATA ACCEPTANCE** | |
| *WFR.06.01 - Preview presentation Europeana* | Acceptance: Accepted by most CPs.<br>Usability: Rated 'very easy' and 'easy'. |
| *WFR.06.02 - Withdraw records, WFR.06.03 - Update published records, WFR.06.04 - Publication indication, WFR.06.05 - Automatic publication alert* | Acceptance: Not tested by all CPs. |
| **ENRICH AND RETURN** | |
| The enrich and return functionalities will be tested as part of iteration 4 ECK production (July 2014). | |

## Note on the interpretation of the test results

As with the test results from iterations 1 and 2, there are slight differences in the way CPs interpreted 'not accepted' and 'not tested'. Some CPs indicated that a FR is 'not accepted' while they were not able to test it, due to a shortage of time.

## Conclusion and remaining issues

Usability: overall CPs indicated that they understand the FRs and are able execute it easily. CPs experience most difficulties with the mapping (editing of the mapping, interpreting the logfiles,..). Some of them stated that without technical knowledge or assistance they are not able to execute the functionality.

Validation and preview: both services only recognizes LIDO as input format. CPs delivering their content directly in EDM received no results from both services.

Data acceptance: none of the CPs was able to test the FRs, because they depend on Europeana services. Most of the FRs could not be tested (for example *WFR.06.03 - The system can keep the data that are already in Europeana-up-to-date*).

Enrich and return: none of the CPs could test the FRs. They will be tested as part of iteration 4 ECK (M28 – July 2014).

## 3.2 Content Providers Survey i3

The goal of the Content Providers Survey i3 was to **evaluate the test process** of iteration 3 ECK (Appendix II).

The questions asked were:

1) Did you receive sufficient assistance and documentation on the testing provided by the technical partner?
2) What do you feel needs to be improved on the test process for iteration 4?
3) Did you experience difficulties in completing the test forms for i3? If so, which parts were difficult to complete?
4) Did you discuss the problems that occurred during the testing in the Basecamp-groups? Why not?
5) How is your overall evaluation of the ECK?
6) Where you able to test the 2 new functionalities: data push or Pull and content re-ingestion? Why not?

### Summary of the answers

All CPs were **satisfied with the technical assistance** their received from their technical partner.

Several CPs commented that the time foreseen for testing iteration 3 was too short. There was **not enough time** to implement, comprehend and test all developed functionalities.

The short period for testing also prevented discussions in the test groups on Basecamp. There were no discussions in Basecamp. **All CPs communicated directly with their technical partner** (phone/Skype/in person).

All CPs gave ECK iteration 3 overall a **good evaluation**. There was only one CP that said the ECK was disappointing, because much functionality requires a lot of explanation and some functions are not addressing the real problems[3]. (e.g. 1)

More negative feedback was on the usability: *The reason why it's not very good is the complicated configuration process e.g.: if you want to change the mapping you need to edit XSLT source code, if you want to change the target aggregator you need assistance from the technical partner.*

Nearly every CP was **able to test Push or OAI-PMH**. None of the content partners tested content re-ingestion.

[3] e.g. 1) *The preview function is based on LIDO, while the need is for seeing how the EDM looks like in Europeana and 2) The PID service is a simple string concatenation function that can be implemented more easily (and less expensive) in one-line in a local script. What is really needed is a solid agreement on how to deal with the composition and the persistence of the identifiers)* (Erfgoedplus).

## 3.3 Content Providers Survey i3 – Content Re-Ingestion

The goal of the CPs survey on content re-ingestion is to **evaluate the quality of the metadata**. In collaboration with Europeana a survey was made to evaluate the enrichments (which fields are enriched, are they satisfied with the enrichments, what is the main advantage of the enrichments,….).

The **content re-ingestion process** could however **not be tested**, since a change on Europeana's API was not completed in time. Without those changes the enrichment return process did not work.

CPs were therefore not able test the **enrich and return functionalities** within this iteration. They will however be tested as part of **iteration 4** (release in M27 – June 2014, testing and feedback in M28 – July 2014).

# Conclusions and Next Steps

**Testing iteration 3 ECK was a success**. With the exception of one, all CPs in the consortium participated in testing iteration 3 and every partner provided feedback on the developed functionalities and on the test process.

Iteration 3 ECK was by the CPs **positively evaluated.**

Since content re-ingestion could not be tested as part of iteration 3, the functionalities will be evaluated as part of **iteration 4 ECK**. The release is planned in M27 (June 2014), testing and feedback in M28 (July 2014).

In the following months the final iteration (iteration 4 – production version) will be further refined as part of WP5.

For testing iteration 4 a similar test process as with iterations 1, 2 and 3 will be followed:

- An **overall test plan** will be provided to all partners via Basecamp at the beginning the testing period.
- CPs and TPs will be responsible for completing the **Content Providers Survey iteration 4** and the **Acceptance and Usability Test Form iteration 4** and the **Content Providers Survey iteration 4 on content re-ingestion**. The evaluation forms will be distributed through Basecamp.

The results of the testing will be reported on in *D4.3 (v2) Export Evaluation Report (M29 – August 2014)* and in *D4.5 (v2) Summative Evaluation Report (M29 – August 2014).*

## Appendix I: Acceptance and usability test form iteration 3

The purpose of the first part of the form is to evaluate whether the functional requirements that needed to be developed for iteration 2 ECK were present and worked. Content partners indicated in the Acceptance Test Forms whether the requirements were **accepted (A)**, **not accepted (NA)** or **not tested (NT).** Added for iteration 3 are the columns on usability. Content partners are asked to rate the FRs: how easy was it to perform the functionality (very easy, easy, difficult, very difficult) and explain why. (see appendix I).(= maybe add this as introduction of the Appendix)

Included are all required functionalities (*D4.6 Technical specification*)

Technical partners: Describe where the functionality is implemented.

Content partners: Indicate whether the functionality is present and working (accepted (A), not accepted (NA) or not tested (NT) and add remarks.

| **INSTRUCTIONS - READ FIRST** | |
|---|---|
| (1) | List of all functional requirements (D2.4) |
| (2) | The description of the functional requirements (D2.4) |
| (3) | (To be completed by the CP) Indicate whether the functional requirement is present: A: accepted, NA: Not accepted, NT: not able to test |
| (4) | (To be completed by the TP) Describe where the functionality is implemented (in CMS module or ECK) and how |
| (5) | (To be completed by the CP) Describe bugs, issues and/or recommendations that you might have. Explain why the FR is not excepted. |
| (6) | (To be completed by the CP) Rate the FR: Indicate how easy or difficult it was to perform the functionality? |

## Petofi Irodalmi Muzeum PIM (HU) - Monguz (HU)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | | | 1 | Available in the Europeana → uploaded records menu | | | | | | 1 | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | Supported by the mapping. | | 1 | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | Enrichments become part of the standard record once approved. | | | | | | 1 | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | Standard CMS functionality | | 1 | | | | | |

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| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | | 1 | | Available through the standard CMS search form, saves the current search criteria. These can later be reloaded for a new search. | | | | | | 1 | There must be a bug in this function. A part of the query doesn't appear after reloading the saved query, e.g.: „Bibliográfiai gyűjtemény: Művészeti és Relikviatár / Fotógyűjtemény" seems to be not saved. |
| **Prepare** | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | | | 1 | CMS exports records to LIDO, the DA converts to EDM. Native EDM support is under development, to be tested in it4. | | | | | | 1 | |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | | | 1 | Record preview is enabled in the CMS and the DA. | | | | | | 1 | |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | Previously completed. Mapping editing is working, but not very user-friendly. To be improved in it4 | | | | | 1 | | Mapping can be edited in XSLT source code. |

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| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | 1 | | | Any errors are presented to the user directly or saved in the exchange log. | | 1 | | | | | The system shows the error messages of the XSLT engine. |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | 1 | | | Available in Museum → XSL formats menu | | 1 | | | | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | | | 1 | Partial support, needs final profile | | | | | | 1 | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | | | 1 | Standard CMS functionality, extended support in the mapping. | | | | | | 1 | The functionality exists but we couldn't apply it in the XSLT source code. It needs more expertise in XSLT. |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | Supported by ECK Validation | | 1 | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | | | 1 | The system chooses the first image for the thumbnail, ordering can be changed in the CMS. To be improved in it4. | | | | | | 1 | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | Previously implemented | | 1 | | | | | |

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| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | Previously implemented | | 1 | | | | | |
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | Previously implemented | | 1 | | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | | 1 | | Standard CMS functionality | | | | | | 1 | There are mandatory fields for saving a record in the system, but nothing indicates which fields are mandatory for the LIDO mapping. However the validation gives information about that after applying the LIDO transformation. |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | Default mapping is „LIDO" unless configured otherwise, | | 1 | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | | | | | | | 1 | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | | | 1 | Currently handled by the DA | | | | | | 1 | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | 1 | | | Manual conversion is supported by CMS, automatic available through content enrichment. | | 1 | | | | | |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | Supported by the mapping, extensively used with selective mappings in different collections | | | | | 1 | | Mapping can be edited in XSLT source code. |

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| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | 1 | | | Supported by the mapping. | | | | | 1 | | Mapping can be edited in XSLT source code. |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | 1 | | | Available in the Museum → XSL formats menu | | | | | 1 | | Mapping can be edited in XSLT source code. |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predifined conditions (cases).** | 1 | | | Supported but not needed yet. | | | | | 1 | | Mapping can be edited in XSLT source code. |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | PID is applied during data export | | 1 | | | | | It is already defined in the mapping so it's easy to use if you don't have to change the configuration. |
| **WFR.03.25 - Conditional field conversion** | **The system can automaticaly convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | 1 | | | Supported by mapping. | | | | | 1 | | Mapping can be edited in XSLT source code. |
| **Validate** | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | 1 | | | Supported by ECK Validation | | 1 | | | | | LIDO validation is available, EDM transformation and validation is not part of the CMS |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | 1 | | | Supported by ECK Validation | | 1 | | | | | |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | 1 | | Supported by ECK Validation and CMS | | | | | | 1 | Not sure what does it mean? |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | 1 | | Supported by ECK Validation | | | | | | 1 | Maybe it happens in the background, but it's not evident |

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| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | 1 | | | Ingestion target depends on configuration, thus it is possible to configure test targets. | | 1 | | | | | | Test ingestion was successful with the use OAI-PMH and SWORD as well |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | | | 1 | Supported in theory, needs confirmation from Europeana | | | | | | 1 | | |
| **Supply** | | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | OAI-PMH and SWORD v1 are supported | | 1 | | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | 1 | | Supported either by manual restart or scheduled re-upload of failed records. | | | | | | 1 | | Maybe it happens in the background, but it's not evident |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | Scheduled upload is available through Admin → Scheduled tasks menu | | | | | | 1 | | Can't find and test this functionallity |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | 1 | | | Any platform that accepts LIDO or EDM is supported | | 1 | | | | | | Test ingestion is working, real ingestion should work too |
| **Data acceptance** | | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | 1 | | Supported by ECK Preview | | | | | | 1 | | Itis currently outside of the CMS |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | Partial support by CMS, to be completed in it4. Flag removal revokes records from Europeana | | | | | | 1 | | |

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| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | Every flagged record pushes updates (or is flagged for harvesting) when the record is updated | | | | | | 1 | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | Only supported until ingestion in the aggregator | | | | | | 1 | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | Not supported yet. | | | | | | 1 | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | 1 | | Available enrichments are shown in the Europeana → Available enrichments menu | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | 1 | | Enriched content is separated by default. | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | 1 | | User-generated content not supported, the original record licence is applied to enriched data | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |

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| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | 1 | | Supported by the CMS+ECK | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | 1 | | Immediate pull is supported. | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | 1 | | Supported by standard CMS record history. | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |

## Magyar Nemzeti Muzeum MNM/HNM (HU) - Monguz (HU)

| | | Acceptance | | | | | Usability | | | | | |
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| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | | | 1 | Available in the Europeana → uploaded records menu | | | | | | 1 | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | Supported by the mapping. | | 1 | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | Enrichments become part of the standard record once approved. | | | | | | 1 | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | Standard CMS functionality | | 1 | | | | | |

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| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | Standard CMS functionality | | 1 | | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | Standard CMS functionality | | 1 | | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | Standard CMS functionality | | 1 | | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | | 1 | | Available through the standard CMS search form, saves the current search criteria. These can later be reloaded for a new search. | | | | | | 1 | | There must be a bug in this function. A part of the query doesn't appear after reloading the saved query, e.g.: „Bibliográfiai gyűjtemény: Művészeti és Relikviatár / Fotógyűjtemény" seems to be not saved. |
| **Prepare** | | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | | | 1 | CMS exports records to LIDO, the DA converts to EDM. Native EDM support is under development, to be tested in it4. | | | | | | 1 | | |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | | | 1 | Record preview is enabled in the CMS and the DA. | | | | | | 1 | | |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | Previously completed. Mapping editing is working, but not very user-friendly. To be improved in it4 | | | | | 1 | | | Mapping can be edited in XSLT source code. |

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| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | 1 | | | Any errors are presented to the user directly or saved in the exchange log. | | 1 | | | | | The system shows the error messages of the XSLT engine. |
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| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | | | 1 | Standard CMS functionality, extended support in the mapping. | | | | | | 1 | The functionality exists but we couldn't apply it in the XSLT source code. It needs more expertise in XSLT. |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | Supported by ECK Validation | | 1 | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | | | 1 | The system chooses the first image for the thumbnail, ordering can be changed in the CMS. To be improved in it4. | | | | | | 1 | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | Standard CMS functionality | | 1 | | | | | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | Previously implemented | | 1 | | | | | |

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| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | Previously implemented | | 1 | | | | | |
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| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | | | | | | | 1 | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | | | 1 | Currently handled by the DA | | | | | | 1 | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | 1 | | | Manual conversion is supported by CMS, automatic available through content enrichment. | | 1 | | | | | |

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| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | Supported by the mapping, extensively used with selective mappings in different collections | | | | | 1 | | Mapping can be edited in XSLT source code. |
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| **WFR.03.25 - Conditional field conversion** | **The system can automaticaly convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | 1 | | | Supported by mapping. | | | | | 1 | | Mapping can be edited in XSLT source code. |
| **Validate** | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | 1 | | | Supported by ECK Validation | | 1 | | | | | LIDO validation is available, EDM transformation and validation is not part of the CMS |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | 1 | | | Supported by ECK Validation | | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | 1 | | Supported by ECK Validation and CMS | | | | | | 1 | Not sure what does it mean? |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | 1 | | Supported by ECK Validation | | | | | | 1 | Maybe it happens in the background, but it's not evident |
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| **Supply** | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | OAI-PMH and SWORD v1 are supported | | 1 | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | 1 | | Supported either by manual restart or scheduled re-upload of failed records. | | | | | | 1 | Maybe it happens in the background, but it's not evident |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | Scheduled upload is available through Admin → Scheduled tasks menu | | | | | | 1 | Can't find and test this functionallity |
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| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | 1 | | Supported by ECK Preview | | | | | | 1 | Its currently outside of the CMS |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | Partial support by CMS, to be completed in it4. Flag removal revokes records from Europeana | | | | | | 1 | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | Every flagged record pushes updates (or is flagged for harvesting) when the record is updated | | | | | | 1 | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | Only supported until ingestion in the aggregator | | | | | | 1 | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | Not supported yet. | | | | | | 1 | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | 1 | | Available enrichments are shown in the Europeana → Available enrichments menu | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | 1 | | Enriched content is separated by default. | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |

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| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | 1 | | User-generated content not supported, the original record licence is applied to enriched data | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | 1 | | Supported by the CMS+ECK | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | 1 | | Supported by the CMS | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | 1 | | Immediate pull is supported. | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | 1 | | Supported by standard CMS record history. | | | | | | 1 | It can be tested in the CMS with the test records of the Imperial War Museums, so it is promising but not acceptable. |

## Municipio do Seixal SEI (PT) - Mobydoc MOB (FR)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | | 1 | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | | | | | | | 1 | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |

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| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | Implemented in the OPAC Web Generator (OWG) Module of the CMS. Refer to Documentation "manuel_opacweb" in French | | 1 | | | | | |
| **Prepare** | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | | | 1 | MOB+aggregator; to be tested with aggregator | | | | | | 1 | Made directly by the TP |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | | | 1 | aggregator; to be tested with aggregator | | | | | | 1 | Made directly by the TP |

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| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | | | 1 | aggregator; to be tested with aggregator | | | | | | 1 | Made directly by the TP |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | | | 1 | aggregator; to be tested with aggregator | | | | | | 1 | Made directly by the TP |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | | | 1 | MOB+aggregator; to be tested with aggregator | | | | | | 1 | Made directly by the TP |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | | | 1 | | | | | | | 1 | Made directly by the TP |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | | | 1 | MOB+aggregator; to be tested with aggregator | | | | | | 1 | Made directly by the TP |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | | | 1 | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | | | 1 | | | | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | | | 1 | | | | | |

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| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | | Is what we do on profil manageme nt | 1 | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | | Is what we do on profil manageme nt | 1 | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | | | | | | | 1 | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | | | 1 | | | | | | | 1 | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | | | 1 | | | | | | | 1 | |

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| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | | | 1 | | | | | | | 1 | Made directly by the TP |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | | | 1 | | | | | | | 1 | Made directly by the TP |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | | | 1 | | | | | | | 1 | Made directly by the TP |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | 1 | | | | | 1 | | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | | | 1 | | | | | | | 1 | Made directly by the TP |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | | | 1 | | | | | | | 1 | |
| **Validate** | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | | | 1 | AGGREGATOR | | | | | | | |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | | | 1 | AGGREGATOR | | | | | | | |

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| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | | 1 | AGGREGATOR | | | | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | | 1 | AGGREGATOR | | | | | | | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | | | 1 | AGGREGATOR | | | | | | | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | | | 1 | AGGREGATOR | | | | | | | |
| **Supply** | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | | | 1 | MOB | | | | | | 1 | Made directly by the TP |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | | 1 | MOB+AGGREGATOR | | | | | | 1 | Made directly by the TP |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | | | | | | | 1 | |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | | 1 | | | | | | | 1 | |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | | 1 | AGGREGATOR | | | | | | | |

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| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | | | | | | | | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | MOB+AGGREGATOR | | | | | | | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | | | | | | | | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | AGGREGATOR | | | | | | | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | | | | | | | | | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | | | | | | | | | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | | | | | | | | | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | | | | | | | | | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | | | | | | | | | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | | | | | | | | | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | | | | | | | | | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | | | | | | | | | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | | | | | | | | | |

## Benaki Museum (BEN) (GR) - PostScriptum PS (GR)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | | | 1 | | | | | |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | | | 1 | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | | | 1 | | | | | | |
| **Prepare** | | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | 1 | | | | | | | 1 | | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | 1 | | | | | | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | | | 1 | | Not applicable to our data | | | | | 1 | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | | | 1 | | Not applicable to our data | | | | | 1 | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | | | 1 | | | | | | | 1 | | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | | 1 | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | | 1 | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | | 1 | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | 1 | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | | | 1 | | | | | | | | 1 | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | | | 1 | This could be done via the mapping, too. For example, it is possible to link to Getty AAT keywords or to the (yet unofficial) lido terminology for example in the event types or in the material values. Example for a link that could be inserted into a LIDO xml file for a material by the URI http://vocab.getty.edu/aat/300311452. | | | | | | | 1 | |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | 1 | | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | 1 | | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predifined conditions (cases).** | | | 1 | | | | | | | | 1 | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | | | | | 1 | | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.03.25 - Conditional field conversion** | **The system can automaticaly convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | | | 1 | This is possible in the MCK, for example in a mapping it could be defined, that the artists that are related to an object are grouped into the corresponding event type by help of the artists' function . That is for example it could be defined that all the artists that have a function like "painter" are exported into the event "Creation", and all the artists that have a function like "producer" are exported into the event "Production" and so on. | Not applicable to our data | | | | | 1 | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **Validate** | | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | 1 | | | | | | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | 1 | | | | | | | 1 | | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | 1 | | | | | | 1 | | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | 1 | | | | | | 1 | | | | | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | 1 | | | | | | | | | | | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | 1 | | | | The CPs are not automatically informed by the ECK. | | | | | | | |
| **Supply** | | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | | | | 1 | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | | 1 | | | | | | | | 1 | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | | | | | | | | 1 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | 1 | | | | | | | 1 | | | The creation or updating of a mapping is not possible by CPs with no technical assistance |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | 1 | | 1 | | Accepted for aggregator, Not tested for Europeana as our records are not on Europeana yet | | | | | 1 | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | | Our records are not on Europeana yet | | | | | 1 | | |

## National Gallery-Alexandros Soutzos Museum (NAG) - PostScriptum PS (GR)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | 1 | | | | | 1 | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | | The information about who and when altered a record is directly visible and searchable in M+. | 1 | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | | | 1 | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | | | | | | | 1 | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | | | 1 | | | | | |

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| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | | | 1 | | | | | | |
| **Prepare** | | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | | 1 | | | We didn't find any function in the MCK that converts from Lido to EDM. | | | | | 1 | | |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | 1 | | | | Not full preview, of the mapped fields from local schema to Lido, is available, we could only preview the three Lido mandatory fields plus provider (Title, Work Type, Inventory No, Provider: Europeana Inside). | 1 | | | | | | |

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| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | | | | 1 | | | | |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | 1 | | | | After exporting exporting an object group from M+, a logfile is opened automatically where every information about warnings and errors in the mapping are displayed. | | 1 | | | | |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | 1 | | | | | 1 | | | | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | 1 | | | | | | 1 | | | | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | | MCK's Preferences tab. | | 1 | | | | |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | | MPITS component was developed to implement this specific FR, (it will be integrated to MCK in i4). At the moment can only be run by a technical expertise, because it's designed to operate as an OS Scheduled Task. | | | 1 | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | | The same as above. | | | 1 | | | |

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| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | | The same as above. | | | 1 | | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | | This is set in the mapping (refers to a special Europeana field inside of classification wrap). | | 1 | | | | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | This is done directly in the mapping itself. | | | 1 | | | | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | This is done directly in the mapping itself. | | | 1 | | | | |
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | | 1 | | | | | 1 | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | | | | 1 | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | | | | 1 | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | 1 | | | | | | | | 1 | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | 1 | | | | | | 1 | | | | |

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| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | | | 1 | This could be done via the mapping, too. For example, it is possible to link to Getty AAT keywords or to the (yet unofficial) lido terminology for example in the event types or in the material values. Example for a link that could be inserted into a LIDO xml file for a material by the URI http://vocab.getty.edu/aat/300311452. | We didn't test this FR, not in our testing needs yet. | | | | | 1 | |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | | This is inherent and feasible in the mapping itself. | | 1 | | | | |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | 1 | | | | | | 1 | | | | |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | | 1 | | | Only mapping between local schema and Lido. | | | | | 1 | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | 1 | | | | Through mapping configuration. | | 1 | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | | | 1 | This is possible in the MCK, for example in a mapping it could be defined, that the artists that are related to an object are grouped into the corresponding event type by help of the artists' function . That is for example it could be defined that all the artists that have a function like "painter" are exported into the event "Creation", and all the artists that have a function like "producer" are exported into the event "Production" and so on. | We didn't test this FR, not in our testing needs yet. | | | | | 1 | |
| **Validate** | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | 1 | | | | Built-in validation for LIDO. | 1 | | | | | |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | 1 | | | | Built-in validation for LIDO. | 1 | | | | | |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | 1 | | | We didn't find this function in the MCK. | | | | | 1 | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | 1 | | | | | | | | 1 | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | 1 | | | | | 1 | | | | | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | | 1 | | | | | | | | 1 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Supply** | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | | | | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | 1 | | | We didn't find this function in the MCK. | | | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | 1 | | | | | | | | | |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | 1 | | | | | | | | | |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | 1 | | | | | | | | | | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | | | | | | | | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | | | | | | | | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | | | | | | | | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | | | | | | | | |

| Enrich and Return | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | 1 | | | | | | | | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | 1 | | | | | | | | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | | | | | | | | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | 1 | | | | | | | | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | | | | | | | | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | 1 | | | | | | | | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | 1 | | | | | | | | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | | | | | | | | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | 1 | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | | | | | | | | | |

## Royal Museums of Art and History (KMKG) (BE) - ZETCOM (DE)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | 1 | | | | Added search field in the CMS | 1 | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | | | 1 | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | | | 1 | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | | The functionality was not tested due to a delay in changes of the API from Europeana. It will be tested as part of iteration 4. | | | | | 1 | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | | CMS | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | | CMS | 1 | | | | | |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | | CMS | 1 | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | | CMS | 1 | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | | It can be seen in the mapping rules: which fields will be exported and in M+: the selection of object groups. There is however no general overview in which is stated which fields from one record are included. | 1 | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | | CMS | 1 | | | | | |
| **Prepare** | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | 1 | | | | The MCK makes it possible to export a valid LIDO xml that can be uploaded to the DA. The transformation LIDO-EDM is performed in the DA. | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | 1 | | | | MCK | 1 | | | | | | |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | | MCK | | | | 1 | | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | 1 | | | | MCK | | | 1 | | | | Without technical knowledge it is not easy to understand the logfile and to correct the mapping. |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | 1 | | | | MCK | 1 | | | | | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | 1 | | | | MCK | | 1 | | | | | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | | MCK | | | 1 | | | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | | MCK | 1 | | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | | MCK | | | 1 | | | | It is not easy to adjust the mapping without technical knowledge or assistance. |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | | When several images are added in the CMS, they can be exported in the LIDO xml. | | | 1 | | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | | | 1 | | | | | | | 1 | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | | | 1 | | | | | | | 1 | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | | | 1 | | | | | | | 1 | |
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | | | 1 | | | | | | | 1 | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | | MCK | 1 | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | | MCK | 1 | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | | MCK | | | | | 1 | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | 1 | | | | MCK | 1 | | | | | |

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| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | | | 1 | | MCK, it is possible, but not operational. The controlled vocabularies are not linked in the mapping. | | | | | 1 | |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | | MCK | | | | 1 | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | 1 | | | | MCK | | | | 1 | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | | 1 | | Currently only the LIDO2EDM transformation web service can be used via the MCK, so the user does not have the possibility to control or change the mapping rules from LIDO to EDM. | Only mapping to LIDO is possible | | | | | 1 | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | 1 | | | | MCK | | | | 1 | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | | MCK | | | | 1 | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | 1 | | | | MCK | | | | 1 | | It is not easy to adjust the mapping without technical knowledge or assistance. |
| **Validate** | | | | | | | | | | | | |

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| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | 1 | | | | MCK, validation against LIDO xml (not EDM) | 1 | | | | | |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | 1 | | | | MCK, logfiles | | | | 1 | | It is not easy understand the logfiles without technical knowledge or assistance. |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | 1 | | It is possible to reprocess only the corrected records but a new object group needs to be configured in MuseumPlus to do so. | The entire set is re-processed. | | | 1 | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | | 1 | | | | | | | 1 | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | 1 | | | | MCK | 1 | | | | | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | 1 | | | | MCK and DA. A successful validation in the DA doesn't always guarantee validation by Europeana. | 1 | | | | | |
| **Supply** | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | | MCK (push to the DA). However, all records are pushed in the DA, also the invalid ones. If some records are invalid, it will be shown in the logfile, but they are pushed in the DA anyway. | 1 | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | 1 | | This is possible via generating a new object group in MuseumPlus for the failed records only | In case of an error, the system is able to re-start the supply process, but not only for the invalid records. Re-push of | | | | | 1 | |

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| | | | | | | all records. | | | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | 1 | | | The records are being pushed to the DA from the moment you give the instructions to push them. | 1 | | | | | |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | | 1 | | It is not tested whether the data can be pushed directly to another platform then the DA. | | | | | 1 | |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | 1 | | | | The preview is based on the LIDO, not on EDM | 1 | | | | | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | | Depends on Europeana services | | | | | 1 | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | | Depends on Europeana services | | | | | 1 | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | | Depends on Europeana services | | | | | 1 | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | | Depends on Europeana services | | | | | 1 | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | 1 | | The functionality was installed in the CMS, but could not be tested due to a delay in changes of the API from Europeana. It will be tested as part of iteration 4. | | | | | 1 | |

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| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | 1 | | The functionality was installed in the CMS, but could not be tested due to a delay in changes of the API from Europeana. It will be tested as part of iteration 4. | | | | | 1 | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | | The functionality was installed in the CMS, but could not be tested due to a delay in changes of the API from Europeana. It will be tested as part of iteration 4. | | | | | 1 | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | 1 | | Not applicable. Only machine enrichments from Europeana are tested for content re-ingestion (no UGC). | | | | | 1 | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | | Not applicable. Only machine enrichments from Europeana are tested for content re-ingestion (no UGC). | | | | | 1 | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | 1 | | The functionality was installed in the CMS, but could not be tested due to a delay in changes of the API from Europeana. It will be tested as part of iteration 4. | | | | | 1 | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | 1 | | The functionality was installed in the CMS, but could not be tested due to a delay in changes of the API from Europeana. It will be tested as part of iteration 4. | | | | | 1 | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | | The functionality was installed in the CMS, but could not be tested due to a delay in changes of the API from Europeana. | | | | | 1 | |

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| | | | | | | It will be tested as part of iteration 4. | | | | | | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | 1 | | The functionality could not be tested due to a delay in changes of the API from Europeana. It will be tested as part of iteration 4. | | | | | 1 | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | | The functionality was installed in the CMS, but could not be tested, because the API from Europeana was not ready. It will be tested as part of iteration 4. | | | | | 1 | |

## Stiftung Preussischer Kulturbesitz (SPK) (DE) - ZETCOM (DE)

| | | Acceptance | | | | | Usability | | | | | |
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| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | **PA = partially accepted MDS = SPK's Collections Management System based in ZetCom Museumsplus** | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | | | 1 | Also this feature was deactivated in the MCK of the SPK due to security reasons. In all other installations of the MCK this is possible via a new search field in the MDS where the date of the last export etc. can be searched. | Record sets are saved in the MCK, but this information is not written in the MDS. | | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | | | 1 | | Changes are in the MDS | | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent** | | | 1 | PID generation can be used in the MCK but only via a web service. | The Object ID are PIDs combined with ISIL, this information is part of the LIDO-Export (mapping performed in the MCK). | | | | | | |

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| | **to Europeana.** | | | | | | | | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | Only available via the MCK if web services can be used. | SPK will not participate in return scenario | | | | | | | |
| **Select** | | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | | MDS and MCK can select multiple object groups. | | | | | | | |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | | In MDS | | | | | | | |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | | In MDS | | | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | | In MDS | | | | | | | |

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| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | Just one small remark here: In principle, it's not only possible to select object groups in the MCK but also whole collections can be selected for export. As this is normally not feasible for the content partner to allow whole collections to be exported and published in a portal, this option is not used very often. | In MDS the user can search and select, but not once the object-group is built. MCK can only manage object-groups as a whole.<br>The field selection is easily manageable through the mapping, which will transform only the fields mapped. Once the mapping is specified, it will apply to all records in the object-group. | | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | Mappings for the LIDO export are stored according to the MCK user preferences. | Queries are stored in MDS | | | | | | |
| **Prepare** | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | 1 | | | LIDO to EDM transformation is done via the central LIDO2EDM service integrated into the Europeana Inside Administration and Management Portal (Dark Aggregator) | MCK transforms to LIDO, currently the records are sent to the DA in LIDO-format. EDM mapping could be defined and applied to our MCK implementation, but this has to be defined by the working group. | | | | | | |

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| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | | | 1 | Preview only available when web services can be used or via the Europeana Inside Data Administration and Management Portal. | The preview is deactivated in the MCK, probably due to the fact that our MCK does not transform to EDM. Attachment: "SPK-MCK-interface.jpg" Preview is only possible in the Dark Aggregator. | | | | | | Two issues to the display of information in Europeana dependant of mapping. See pic WFR-03-02.jpg<br><br>1) the multiple Ids, this has already been discussed. If an Identifier should be displayed in Europeana, only the "lido:workID" should be shown ( IV Ca 38007).<br><br>2) Contributor, the name of the person should be displayed, not the url to the referenced vocabulary (GND). If the URI to the vocabulary has to be displayed, it should be displayed after the name, not before. |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | | | | | | | | |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | | 1 | | Due to security reasons at the SPK the validation service had to be deactivated. This WFR is fully available in the MCK but only if the validation service is used! | When the MCK applies the mapping it runs with no incidents. The dataset contained some records (36) with empty mandatory fields, We found the errors analysing the log file. Attachments: "20140509-MCK-Logfiletest.txt" and "SMB-LIDO_export-615790_REQFIELD.xml" | | | | | | Some suggestions to MCK-usability regarding this functionality:<br>1) It is important that errors do not interrupt the transformation, in case a large batch runs for hours.<br>2) It would be good if the MCK could deliver at the end of the transformation a summary of the errors. For this the logfile can be used, but it would be best if not only the record id is named, but also in which field is the error ( "The lido field 'appellationValue' is |

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| | | | | | | | | | | | | required but has no content inside of MuseumPlus." this information is not very relevant. what is relevant is that this error was found in the field "Rights holder"). |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | 1 | | | | | | | | | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | 1 | | | | | | | | | | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | | | | | | | | |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | | 1 | | Also this WFR is ensured via the use of the validation service which was explicitly deactivated for use in the SPK by request of the SPK due to security reasons | MDS is using e-Museumplus for presentation. The images are generated on this platform. MCK exports three views generated from the "Standard Bild" from the MDS.<br>See attachment: "WFR-03-08.jpg"<br>MCK does not check during transformation (some records without images were exported and | | | | | | We have noticed the following which may be changed in the LIDO-export (comment to Zetcom). The exported thumbnail dimensions are 110x110px, while the Europeana container of this image is 200x200px. Apparently smaller images are blown up to the size of container and this empoors the image definition. |

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| | | | | | | transformed) | | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | | | 1 | The export of multiple digital assets is possible and configurable via the mapping. | We automatically export only one digital asset per record. This is chosen by the collection manager | | | | | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | | | 1 | By digital asset here it is meant that a URL to a digital image is exported to LIDO. If several digital assets (image files) are reachable these can be exported - if desired by the CP - to LIDO as well. | _If by "digital asset" the preview image is meant, we automatically export only one digital asset per record. This is selected by the collection manager. This is due to pre-configuration of our export system in MDS, because in our online database only one digital asset (type:image) is displayed with each record.<br><br>_If by "digital asset" related works are meant, the system exports the url and PIDs of related works in one single metadata record, but this does not mean that these related works are present within the records in the object-group. | | | | | | |

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| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | Media types are not defined on record level but on image level in the multimedia popup in the MDS! The problem with the audio-visual files is not caused by the MCK. | Partially accepted<br>Media types are defined in the MDS on record level at the moment. MCK handles this per batch in the transformation.<br>We have noticed a problem with audio-visual files. The url "is located at" leads to an html containing the file information, not the file itself. This should be further discussed. | | | | | | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | See vendor's comment to WFR 03.04. Missing information can only be checked by validation and this is done via the validation service. As this service is not used in the SPK on request of the SPK itself the MCK cannot provide double functionalities here! The system cannot insert information about the rights holders by itself, of course. | Partially accepted<br>Part of the mapping definition. This adds licenses automatically to each record and to each digital asset within a record, but not RIGHTS HOLDERS. Missing information in MDS on this field is reported as an error ("missing appellation value required", for this see example provided in WFR.03.04.) | | | | | | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | This can be done via mapping rules. | | | | | | | |

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| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | This can be done via mapping rules. | All three digital assets within one record (the master, preview and thumbnail) have the same IPR note. This licence is handled in batch. | | | | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | Mandatory fields are marked and highlighted in the mapping view in the MCK. If the validation service is activated (as it should be generally) missing mandatory fields are reported and the file is marked as invalid, of course. MDS fields can't be predefined in the mapping as the MDS allows every CP to configure and use their MDS along their individual needs. | Partially accepted<br>No mandatory fields are pre-defined in the mapping. If you map a "parent" field, MCK automatically warns you what child-fields have to be mapped | | | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | | | | | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and** | | | 1 | | | | | | | | | |

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| | **gives the possibility to approve or decline them).** | | | | | | | | | | | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | 1 | | | By target format LIDO or EDM is meant here. | _If by target format LIDO is meant, the CP only has to indicate the target format (defined in mapping).<br><br>_If the format of the digital asset is meant, the mapping "reads" the suffix of the file in the MDS | | | | | | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | 1 | | | | Vocabularies that are locally installed in MDS are exported. See attachment: "WFR-03-19.jpg" | | | | | | To this we would like to suggest the idea to insert in MDS more local reference subject lists (for example the LIDO subjects), this would allow us to validate or enrich the records, as our IT environment restrictions do not allow to validate against schema.lido.org being this a webservice. |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | | | | | | | | |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | 1 | | | | | | | | | | |

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| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | 1 | | | | Theoretically possible. One same object group can be transformed in 2 formats, but this are two different transformations, not necessarily sequential. | | | | | | | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | 1 | | | | | | | | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | The specific ID that is generated for SPK records is only due to the fact that the PID service cannot be used in the SPK due to security reasons | The object IDs are unique for all 16 museums from which we export data. The "inventory number" is not unique; therefore we combine the MDS record number with the ISIL as ID in the LIDO record. | | | | | | | We found an irregularity on some records (see image WFR-03-24). After transformation to LIDO, some RecIDs did not have the ISIL attached to the inventory number. The errors are probably documented in the logfile, but the message in the logfile is not explicit enough. See suggestion provided for WFR.03.04 |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | 1 | | | | | | | | | | | |
| **Validate** | | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | | | 1 | This feature is of course implemented but deactivated on request of the SPK. | Not implemented (due to IT restrictions) | | | | | | | |

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| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | | | 1 | The validation service, which is integrated into the MCK, does handle this and gives valuable feedback about any irregularities. | Not missing images | | | | | | See suggestion for WFR.03.04 - Mapping feedback |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | | 1 | It is correct that if records in the MDS are changed these records have to be re-exported. This can be done either via a new object group or via the existing object group that was used for the first export. Normally it is not necessary to change the mapping. | Corrections have to be made in MDS and then these records have to be re-exported as a new object-group and defined in the mapping, depending on individual credit lines in the object documentation. | | | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | | 1 | | Licenses are applied per batch for a whole object-group during mapping. | | | | | | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | | | 1 | | | | | | | | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | | | 1 | | | | | | | | |
| **Supply** | | | | | | | | | | | | |

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| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | | | 1 | Push results in a local export of all selected record, each record is exported in a separate file. This behaviour for the PUSH option was explicitly requested by the SPK. | IT restrictions prevented from connecting to the DA. The "PUSH" resulted in a local export of the record batch. See attachment: "SPK-MCK-push.jpg" | | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | | 1 | See WFR 05.01 | | | | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | See WFR 05.01 | | | | | | | |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | | 1 | See WFR 05.01 | | | | | | | |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | | 1 | No, this is not only possible in the Dark Aggregator normally. But as all web services had to be deactivated in the MCK at the request of the SPK due to | This is only possible in the Dark Aggregator. No validation feedback is reported neither to the MCK nor to the MDS. | | | | | | |

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| | | | | | security reasons, these features are not available in the MCK at the SPK only. | | | | | | | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | See WFR 06.01 | | | | | | | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | See WFR 06.01 | | | | | | | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | See WFR 06.01 | | | | | | | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | See WFR 06.01 | | | | | | | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | | | SPK will not participate in this scenario.<br>MDS is not prepared to ingest enrichments. | | | | | | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | | | | | | | | | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by** | | | | | | | | | | | |

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| | **the CP.** | | | | | | | | | | | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | | | | | | | | | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | | | | | | | | | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | | | | | | | | | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | | | | | | | | | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | | | | | | | | | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;** | | | | | | | | | | | |

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| | **- Full or filtered: e.g. related to a specific object or group of objects.** | | | | | | | | | | | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | | | | | | | | | |

## Institut Royal des Sciences Naturelles de Belgique RBNIS (BE) - LIBIS KU Leuven (BE)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | 1 | | | CMS: Logfiles + ECK: Data push service overview list | | 1 | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | CMS: Logfiles + ECK: Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | 1 | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | ECK: PID service | | 1 | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | ECK + CMS. Not implemented yet. Planned for i4 as communicated to WP4 leader. We first have to deliver content to Europeana before we can re-ingest. Currently we are in the process of finalizing the MARC2EDM mapping (also the preview and validation services should be changed in order to accept the EDM format instead of just LIDO) | | | | | | 1 | |
| **Select** | | | | | | | | | | | | |

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| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | CMS: Sets | | 1 | | | | | | Via advanced search / set toggle |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | CMS: Sets - through search results, on record level, or set level | | 1 | | | | | | |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | CMS: Advanced search, add results to set | | 1 | | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | CMS: Basic search | | 1 | | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | CMS: Search results, toggle selection | | 1 | | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | CMS: Save search query option | | 1 | | | | | | Easy via saved searches |
| **Prepare** | | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | | | 1 | ECK: Default mapping between MARC and EDM available | | | | | | | 1 | |

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| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the preview service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | | 1 | |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | ECK: Mapping service: Currently only a default mapping from the CP datamodel to MARC and from MARC to EDM is provided. CP however have the option to make their own mapping extensions using the mapping tool. | | | 1 | | | | via CA dashboard mapping tool |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | 1 | |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | | | 1 | CMS: mapping is saved on the server but can not be re-accessed. People can upload saved mappings from their local machines. Saving mappings is not in the technical specifications and the mapping service in general isn't used by any of the TP with exception of LIBIS. Perhaps this requirement should be removed or if not, be included in the tech specs so all TP include it in their systems. | | | | | | 1 | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | | 1 | | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | |

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| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | ECK: Mapping service: accessible through the CollectiveAccess Dashboard + CMS: using the batch editing functionalities | | | 1 | | | | Ok, default mapping is possible |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | 1 | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | CMS: can be managed by the CP by adding a sequence value. The first in the sequence is used to create a thumbnail. | | | 1 | | | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | CMS + ECK: included in the MARC2EDM mapping | | 1 | | | | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | |

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| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | CMS: mandatory fields marked + ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | 1 | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | ECK: transformation service | | 1 | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | 1 | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | 1 | | | ECK: transformation service | | 1 | | | | | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | 1 | | | CMS: list and vocabularies manager, GeoNames reference, information service | | 1 | | | | | ok via Aleph |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes** | 1 | | | ECK: Mapping service | | 1 | | | | | |

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| | **and/or elements.** | | | | | | | | | | | | |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | | 1 | | ECK: Mapping service | | | | | 1 | | | |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | 1 | | | ECK: transformation service: select source format, select target format | | | 1 | | | | | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | 1 | | | ECK: Mapping service | | 1 | | | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | ECK: PID service | | 1 | | | | | | |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | 1 | | | ECK: Mapping service | | | | 1 | | | | |
| **Validate** | | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | 1 | | |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | | | 1 | Idem as above | | | | | | 1 | | |

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| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | 1 | | | CMS: correct manually or using batch edit functionality and add to new set. Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | | 1 | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | 1 | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | | 1 | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | | | 1 | ECK: dark aggregator responsible for handling this step. If record is valid, than it moves to the dark aggregator who sends it to Europeana | | | | | | 1 | |
| **Supply** | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | ECK: data push implemented | | 1 | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | 1 | | | CMS: correct manually or using batch edit functionality and add to new set. Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | | 1 | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | ECK: Querying server implemented at LIBIS | | | | | | 1 | |

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| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | | 1 | ECK: if system settings are changed this is possible | | | | | | 1 | |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | | 1 | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | Not implemented because this implies Europeana supports incremental harvesting. Europeana is not going to support this, so perhaps this requirement should be removed | | | | | | 1 | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | Not implemented because this implies Europeana supports incremental harvesting. Europeana is not going to support this, so perhaps this requirement should be removed or adapted. Of course a partner can ask Europeana (or the aggregator) to update a certain collection. Automatic updates of the records in the dark aggregator repository are already possible | | | | | | 1 | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | Not implemented because this implies Europeana gives back information on this. European is not going to support this, so perhaps this requirement should be removed or adapted. | | | | | | 1 | |

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| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | ECK: Implemented for the dark aggregator. The CP is notified when the data is uploaded on the DA repository/ Though the DA does not have a website and Europeana is not going to support this. Perhaps this requirement should be removed or adapted. | | | | | | 1 | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | 1 | ECK + CMS. Not implemented yet. Planned for i4 as communicated to WP4 leader. We first have to deliver content to Europeana before we can re-ingest. Currently we are in the process of finalizing the MARC2EDM mapping (also the preview and validation services should be changed in order to accept the EDM format instead of just LIDO) | | | | | | 1 | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | 1 | ECK: Not implemented | | | | | | 1 | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | ECK: Not implemented | | | | | | 1 | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | 1 | Idem as above, but also not relevant since Europeana at the moment only has machine enrichments and this is separated in the EDM record from the original metadata | | | | | | 1 | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | Idem as above, but also not relevant since Europeana at the moment only has machine enrichments and this is separated in the EDM record from the original metadata | | | | | | 1 | |

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| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | 1 | ECK: Not implemented | | | | | | 1 | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | 1 | ECK: Not implemented | | | | | | 1 | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | ECK: PID service | | | | | | 1 | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | 1 | ECK: Not implemented | | | | | | 1 | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | ECK: Not implemented | | | | | | 1 | |

## KADOC - KU Leuven (BE) - LIBIS KU Leuven (BE)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | 1 | | | CMS: Logfiles + ECK: Data push service overview list | | | 1 | | | | visible next to the record would be easier |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | CMS: Logfiles + ECK: Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | 1 | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | ECK: PID service | | 1 | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | ECK + CMS. Not implemented yet. Planned for i4 as communicated to WP4 leader. We first have to deliver content to Europeana before we can re-ingest. Currently we are in the process of finalizing the MARC2EDM mapping (also the preview and validation services should be changed in order to accept the EDM format instead of just LIDO) | | | | | | 1 | |
| **Select** | | | | | | | | | | | | |

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| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | CMS: Sets | | 1 | | | | | Selection via advanced search and set toggle |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | CMS: Sets - through search results, on record level, or set level | | 1 | | | | | toggle |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | CMS: Advanced search, add results to set | | 1 | | | | | Selection via advanced search |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | CMS: Basic search | | 1 | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | CMS: Search results, toggle selection | | 1 | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | CMS: Save search query option | | | 1 | | | | Set function and saved searches |
| **Prepare** | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | 1 | | | ECK: Default mapping between MARC and EDM available | | 1 | | | | | |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the preview service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | 1 | | |

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| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | ECK: Mapping service: Currently only a default mapping from the CP datamodel to MARC and from MARC to EDM is provided. CP however have the option to make their own mapping extensions using the mapping tool. | | | 1 | | | | in communication with technical partner it is possible |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | 1 | | |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | | | 1 | CMS: mapping is saved on the server but can not be re-accessed. People can upload saved mappings from their local machines. Saving mappings is not in the technical specifications and the mapping service in general isn't used by any of the TP with exception of LIBIS. Perhaps this requirement should be removed or if not, be included in the tech specs so all TP include it in their systems. | | | | | 1 | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | | 1 | | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | |

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| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | ECK: Mapping service: accessible through the CollectiveAccess Dashboard + CMS: using the batch editing functionalities | | | | 1 | | | difficult to reproduce without manual |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | 1 | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | CMS: can be managed by the CP by adding a sequence value. The first in the sequence is used to create a thumbnail. | | | 1 | | | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | CMS + ECK: included in the MARC2EDM mapping | | 1 | | | | | in communication with technical partner it is possible |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | in communication with technical partner it is possible |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | in communication with technical partner it is possible |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | in communication with technical partner it is possible |

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| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | 1 | | | | | in communication with technical partner it is possible |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | CMS: mandatory fields marked + ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | 1 | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | ECK: transformation service | | 1 | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | 1 | | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | 1 | | | ECK: transformation service | | 1 | | | | | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | 1 | | | CMS: list and vocabularies manager, GeoNames reference, information service | | 1 | | | | | source systems are already vocabulary controlled |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | ECK: Mapping service | | 1 | | | | | | |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | | 1 | | ECK: Mapping service | | | | | 1 | | | |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | 1 | | | ECK: transformation service: select source format, select target format | | | 1 | | | | | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | 1 | | | ECK: Mapping service | | 1 | | | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | ECK: PID service | | 1 | | | | | | |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | 1 | | | ECK: Mapping service | | | | 1 | | | | you need a manual |
| **Validate** | | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. | | | | | | 1 | | |

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| | | | | | TP working on validation service is informed about this. | | | | | | | |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | | | 1 | Idem as above | | | | | | 1 | |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | 1 | | | CMS: correct manually or using batch edit functionality and add to new set. Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | | 1 | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | 1 | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | | 1 | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | | | 1 | ECK: dark aggregator responsible for handling this step. If record is valid, than it moves to the dark aggregator who sends it to Europeana | | | | | | 1 | |
| **Supply** | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | ECK: data push implemented | | | 1 | | | | |

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| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | 1 | | | CMS: correct manually or using batch edit functionality and add to new set. Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | | 1 | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | ECK: Querying server implemented at LIBIS | | | | | 1 | | |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | | 1 | ECK: if system settings are changed this is possible | | | | | 1 | | |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | 1 | | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | Not implemented because this implies Europeana supports incremental harvesting. Europeana is not going to support this, so perhaps this requirement should be removed | | | | | 1 | | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | Not mplemented because this implies Europeana supports incremental harvesting. Europeana is not going to support this, so perhaps this requirement should be removed or adapted. Of course a partner can ask Europeana (or the aggregator) to update a | | | | | 1 | | |

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| | | | | | certain collection. Automatic updates of the records in the dark aggregator repository are already possible | | | | | | | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | Not implemented because this implies Europeana gives back information on this. European is not going to support this, so perhaps this requirement should be removed or adapted. | | | | | 1 | | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | ECK: Implemented for the dark aggregator. The CP is notified when the data is uploaded on the DA repository/ Though the DA does not have a website and Europeana is not going to support this. Perhaps this requirement should be removed or adapted. | | | | | 1 | | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | 1 | ECK + CMS. Not implemented yet. Planned for i4 as communicated to WP4 leader. We first have to deliver content to Europeana before we can re-ingest. Currently we are in the process of finalizing the MARC2EDM mapping (also the preview and validation services should be changed in order to accept the EDM format instead of just LIDO) | | | | | 1 | | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | 1 | ECK: Not implemented | | | | | 1 | | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | ECK: Not implemented | | | | | 1 | | |

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| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | 1 | Idem as above, but also not relevant since Europeana at the moment only has machine enrichments and this is separated in the EDM record from the original metadata | | | | | 1 | | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | Idem as above, but also not relevant since Europeana at the moment only has machine enrichments and this is separated in the EDM record from the original metadata | | | | | 1 | | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | 1 | ECK: Not implemented | | | | | 1 | | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | 1 | ECK: Not implemented | | | | | 1 | | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | ECK: PID service | | | | | 1 | | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | 1 | ECK: Not implemented | | | | | 1 | | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | ECK: Not implemented | | | | | 1 | | |

## Stiftelsen Länsmuseet Västernorrland SLV (SE) - CollectiveAccess

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | 1 | | | | | | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | | | | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | | | | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | 1 | | | | | | | | | | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | | | 1 | | | | | |

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| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | | | | 1 | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | | | 1 | | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | | | 1 | | | | | | |
| **Prepare** | | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | 1 | | | | | | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | 1 | | | | | | | 1 | | | | |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | | | 1 | | | | | | | | 1 | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | | | 1 | | | | | | |

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| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | | | 1 | | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | | | 1 | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | | | 1 | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | | | | | | | 1 | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | | | 1 | | | | | | | 1 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | 1 | | | | | | | 1 | | | | |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | 1 | | | | | | 1 | | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | 1 | | | | | | 1 | | | | | |

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| **Validate** | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | 1 | | | With the ECK | | 1 | | | | | |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | 1 | | | With the ECK | | 1 | | | | | |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | 1 | | | With the ECK | | 1 | | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | 1 | | | With the ECK | | 1 | | | | | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | 1 | | | With the ECK | | 1 | | | | | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | 1 | | | With the ECK | | 1 | | | | | |
| **Supply** | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | 1 | | | | | 1 | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | 1 | | | | | | 1 | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | 1 | | | | | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | 1 | | | | | | 1 | | | | |
| **Data acceptance** | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | 1 | | | With the ECK | | | 1 | | | | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | | | | | | | 1 | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | | | | | | | 1 | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | | | | | | | 1 | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | | | | | | | 1 | |
| **Enrich and Return** | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | 1 | | | | | 1 | | | | | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | 1 | | | | | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | | | | | | | 1 | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | 1 | | | Only original and enrichment | | 1 | | | | | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | | | | | | | 1 | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | 1 | | | | | | 1 | | | | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | 1 | | | | | | 1 | | | | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | Already have PID's in the system | | | | | | 1 | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | 1 | | | | | | | 1 | | | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | | | | | | | 1 | |

## Erfgoedplus (subcontractor LIBIS KU Leuven)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | | | 1 | CMS: Logfiles + ECK: Data push service overview list | Push service not available (yet) | | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | CMS: Logfiles + ECK: Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | | | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | ECK: PID service | The ECK PID service is being used, but its functionality is very weak. It just assembles a string, which can easily be performed by a single line in a script. | | | | | | |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | ECK + CMS. Not implemented yet. Planned for i4 as communicated to WP4 leader. We first have to deliver content to Europeana before we can re-ingest. Currently we are in the process of finalizing the MARC2EDM mapping (also the preview and validation services should be changed in order to accept the EDM format | | | | | | | |

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| | | | | | instead of just LIDO) | | | | | | | | |
| **Select** | | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | CMS: Sets | | | | | | | | |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | CMS: Sets - through search results, on record level, or set level | | | | | | | | |
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | CMS: Advanced search, add results to set | | | | | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | CMS: Basic search | | | | | | | | |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | CMS: Search results, toggle selection | | | | | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | CMS: Save search query option | | | | | | | | |
| **Prepare** | | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | 1 | | | ECK: Default mapping between MARC and EDM available | | | | | | | | |

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| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the preview service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | Not applicable for MARC. Preview of LIDO does not seem very useful, as it is EDM that will be used in Europeana. | | | | | | | |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | | | 1 | ECK: Mapping service: Currently only a default mapping from the CP datamodel to MARC and from MARC to EDM is provided. CP however have the option to make their own mapping extensions using the mapping tool. | | | | | | | | |
| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | | |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | | | 1 | CMS: mapping is saved on the server but can not be re-accessed. People can upload saved mappings from their local machines. Saving mappings is not in the technical specifications and the mapping service in general isn't used by any of the TP with exception of LIBIS. Perhaps this requirement should be removed or if not, be included in the tech specs so all TP include it in their systems. | | | | | | | | |

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| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | ECK: Mapping service: accessible through the CollectiveAccess Dashboard + CMS: using the batch editing functionalities | | | | | | | | |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | CMS: can be managed by the CP by adding a sequence value. The first in the sequence is used to create a thumbnail. | | | | | | | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | CMS + ECK: included in the MARC2EDM mapping | | | | | | | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | | | | | | | |

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| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | | | | | | | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | | | | | | | |
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | 1 | | | ECK: included in the MARC2EDM mapping (default value set in consultation with the CP) + CMS: batch editing functionality or manually | | | | | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | CMS: mandatory fields marked + ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | | | 1 | ECK: transformation service | | | | | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | | |

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| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | | | 1 | ECK: transformation service | | | | | | | | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | 1 | | | CMS: list and vocabularies manager, GeoNames reference, information service | | | | | | | | |
| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | | | 1 | ECK: Mapping service | | | | | | | | |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | | | 1 | ECK: Mapping service | | | | | | | | |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | | | 1 | ECK: transformation service: select source format, select target format | | | | | | | | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | | | 1 | ECK: Mapping service | | | | | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | | | 1 | ECK: PID service | | | | | | | | |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] =** | | | 1 | ECK: Mapping service | | | | | | | | |

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| | **"Production").** | | | | | | | | | | | | |
| **Validate** | | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | | |
| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | | | 1 | Idem as above | | | | | | | | |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | | | CMS: correct manually or using batch edit functionality and add to new set. Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | | | | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | | 1 | ECK: Validation service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on validation service is informed about this. | | | | | | | | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | | | | |

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| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | | | 1 | ECK: dark aggregator responsible for handling this step. If record is valid, than it moves to the dark aggregator who sends it to Europeana | | | | | | | | |
| **Supply** | | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | | | 1 | ECK: data push implemented | | | | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | | 1 | CMS: correct manually or using batch edit functionality and add to new set. Records are identified by their PIDs. When pushed to the Dark aggregator, records will be updated based on this unique identifier. | | | | | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | ECK: Querying server implemented at LIBIS | | | | | | | | |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | | 1 | ECK: if system settings are changed this is possible | | | | | | | | |
| **Data acceptance** | | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | | | 1 | ECK: Preview service: function implemented and active, but gives no results for now because the validation service only recognizes LIDO as an input format. This should be EDM. TP working on preview service is informed about this. | | | | | | | | |

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| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | Not implemented because this implies Europeana supports incremental harvesting. Europeana is not going to support this, so perhaps this requirement should be removed | | | | | | | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | Not implemented because this implies Europeana supports incremental harvesting. Europeana is not going to support this, so perhaps this requirement should be removed or adapted. Of course a partner can ask Europeana (or the aggregator) to update a certain collection. Automatic updates of the records in the dark aggregator repository are already possible | | | | | | | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | Not implemented because this implies Europeana gives back information on this. European is not going to support this, so perhaps this requirement should be removed or adapted. | | | | | | | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | ECK: Implemented for the dark aggregator. The CP is notified when the data is uploaded on the DA repository/ Though the DA does not have a website and Europeana is not going to support this. Perhaps this requirement should be removed or adapted. | | | | | | | |
| **Enrich and Return** | | | | | | | | | | | | |

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| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | 1 | ECK + CMS. Not implemented yet. Planned for i4 as communicated to WP4 leader. We first have to deliver content to Europeana before we can re-ingest. Currently we are in the process of finalizing the MARC2EDM mapping (also the preview and validation services should be changed in order to accept the EDM format instead of just LIDO) | | | | | | | | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | 1 | ECK: Not implemented | | | | | | | | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | ECK: Not implemented | | | | | | | | |
| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | 1 | Idem as above, but also not relevant since Europeana at the moment only has machine enrichments and this is separated in the EDM record from the original metadata | | | | | | | | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | Idem as above, but also not relevant since Europeana at the moment only has machine enrichments and this is separated in the EDM record from the original metadata | | | | | | | | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | 1 | ECK: Not implemented | | | | | | | | |

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| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | 1 | ECK: Not implemented | | | | | | | | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | ECK: PID service | | | | | | | | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | 1 | ECK: Not implemented | | | | | | | | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | ECK: Not implemented | | | | | | | | |

## National Liberation Museum Maribor (MNOM) and Galerija Božidar Jakac (GBJ) (associate partners Semantica) (SL)

| | | Acceptance | | | | | Usability | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR (1)** | **Acceptance criteria (2)** | **Accepted? (3)** | | | **Development notes vendor (4)** | **Remarks (5)** | **Rate the FR: Indicate how easy or difficult it was to perform the functionality? (6)** | | | | | **Explain why** |
| | | **A** | **NA** | **NT** | | | **very easy** | **easy** | **difficult** | **very difficult** | **not applicable (if the FR is not present)** | |
| **Manage** | | | | | | | | | | | | |
| **WFR.01.01 - Export management** | **The system is able to tell which records have been exported when to Europeana.** | 1 | | | | | 1 | | | | | |
| **WFR.01.02 - Revision history** | **The system is able to show which records are altered when and by whom, so it can provide a base for updating exported records.** | 1 | | | | | | 1 | | | | |
| **WFR.01.04 - PID management** | **The system manages PIDs for objects that can be used for identification when data is sent to Europeana.** | 1 | | | | | 1 | | | | | Done automatically by the CMS |
| **WFR.01.05 - Enriched data management** | **The system is able to merge and manage returned enriched data once ingested in the system of the CP.** | | | 1 | | | | | | | 1 | |
| **Select** | | | | | | | | | | | | |
| **WFR.02.01 - Selecting multiple records** | **The system can make a selection of multiple records.** | 1 | | | | | 1 | | | | | |
| **WFR.02.02 - Selecting a single record** | **The system supports making a manual selection of multiple records or a single record.** | 1 | | | | | 1 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WFR.02.03 - Selecting records based on values** | **The system is able to select records based on specific values in a variety of fields: e.g. by location, by object category, by theme, by section, or by (part of) inventory number.** | 1 | | | | | | 1 | | | | |
| **WFR.02.04 - Boolean operators** | **The system is able to combine filters with clear Boolean operators.** | 1 | | | | | | | 1 | | | Advanced CMS functionality |
| **WFR.02.05 - Indication of selected fields** | **The system shows whether certain records or fields are or will be included in a selection.** | 1 | | | | | | 1 | | | | |
| **WFR.02.07 - Reuse saved queries** | **The system is able to repeat a certain selection, e.g. for updates, so filters or queries must be storable and re-usable.** | 1 | | | | | | 1 | | | | |
| **Prepare** | | | | | | | | | | | | |
| **WFR.03.01 - Automatic EDM mapping** | **The system converts metadata automatically from a predefined input format to EDM by (a set of) default mappings that is selected during configuration of the system.** | 1 | | | | | 1 | | | | | |
| **WFR.03.02 - Preview mapping** | **The ECK shows a preview of the converted metadata and associated thumbnails that are the result of applying a specific mapping. It also indicates the quality of the converted metadata including the thumbnail.** | 1 | | | | | 1 | | | | | |
| **WFR.03.03 - Editable mapping** | **The mapping can be edited to correct/improve the metadata conversion from source to target data model.** | | 1 | | | | | | | | | |

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| **WFR.03.04 - Mapping feedback** | **The system reports on problems with applying the mapping.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.05 - Saving mapping** | **The system saves the mapping for repeated use.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.06 - Field explanations** | **The system informs on the expected input required for the concerned fields in the mapping.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.07 - Automatic value insertion** | **The system is able to insert constant values automatically for metadata not included in the collection database as defined by the user, e.g. language of record, content provider name.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.08 - Check digital asset availability** | **The system ensures that an image is made available for access by Europeana or other targets to generate a thumbnail.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.09 - Thumbnail selection** | **If more than one digital asset is linked to a metadata record the system can choose which image will be used to produce a thumbnail based on input of the user manually or in batch.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.10 - Multiple assets** | **The system supports the use of more than one digital asset with one single metadata record.** | 1 | | | | | 1 | | | | | | |
| **WFR.03.11 - Defining media types** | **The metadata and media types are defined automatically on record level or per batch.** | 1 | | | | | 1 | | | | | | |

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| **WFR.03.12 - Metadata field on IPR digital object** | **The system adds missing or corrected information on the IPR of the digital object based on input of the user manually or in batch.** | | 1 | | | | | | | | | | |
| **WFR.03.13 - Metadata field on IPR metadata** | **The system adds missing/corrected information on the IPR of the metadata based on input of the user manually or in batch.** | | 1 | | | | | | | | | | |
| **WFR.03.14 - Metadata field on IPR preview** | **The system adds missing or corrected information on the IPR of the preview (thumbnail) based on input of the user manually or in batch.** | | 1 | | | | | | | | | | |
| **WFR.03.15 - Mark mandatory fields** | **The system indicates which fields are mandatory for a chosen mapping or output data.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.16 - Choosing a default mapping** | **The system supports choosing a default mapping based on user input or system configuration.** | 1 | | | | | | | 1 | | | | |
| **WFR.03.17 - Automatic data suggestion** | **The system suggests necessary data enhancements on data set (like apply license, apply source institution) and gives the possibility to approve or decline them).** | | | 1 | | | | | | | | | |
| **WFR.03.18 - Target format selection** | **The content provider points out what source format the data is in and chooses a target format.** | 1 | | | | | | 1 | | | | | |
| **WFR.03.19 - Semantic data enrichment** | **The system can be used to make data more explicitly semantic by linking or converting data to controlled vocabularies and thesaurus concepts.** | | | 1 | | | | | | | | | |

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| **WFR.03.20 - Conditional mapping** | **The system supports conditional mappings. The decision about which target field for some content may depend on the value in an attribute or in another element or in a combination of attributes and/or elements.** | | | 1 | | | | | | | | |
| **WFR.03.21 - Nested or grouped mapping** | **The system can perform mappings that consider the structure of nested or grouped elements.** | 1 | | | | | 1 | | | | | |
| **WFR.03.22 - Intermediate format mapping** | **The system can support sequential application of various mappings, e.g. native data model into LIDO into EDM.** | 1 | | | | | 1 | | | | | |
| **WFR.03.23 - Support for conditional truncation** | **The system can truncate the content of certain fields based on predefined conditions (cases).** | | | 1 | The users disagree with this feature (it could lead to incorrect data), so it won't be added | | | | | | | |
| **WFR.03.24 - Apply PID** | **The system must check local identifiers in source data and enhance them automatically for global use based on configurations of the relevant CP.** | 1 | | | | | 1 | | | | | |
| **WFR.03.25 - Conditional field conversion** | **The system can automatically convert certain data values based on predefined conditions. E.g. when [type] = "production place" THEN [eventType] = "Production").** | | | 1 | | | | | | | | |
| **Validate** | | | | | | | | | | | | |
| **WFR.04.01 - Validation** | **The system validates mapping results against chosen target schema, e.g. EDM.** | 1 | | | | | 1 | | | | | |

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| **WFR.04.02 - Feedback on validation** | **The system reports on the irregularities of the mapping results (e.g. missing fields, missing thumbnails).** | 1 | | | | | | 1 | | | | | |
| **WFR.04.03 - Edit invalidated fields** | **If corrections are made then it should be possible to only reprocess these rather than the whole set.** | | 1 | | | | | | | | | | |
| **WFR.04.04 - Automatic license validation** | **License information is validated automatically.** | | 1 | | | | | | | | | | |
| **WFR.04.05 - Test ingestion** | **The system is able to do a test ingestion for metadata prepared for ingestion by Europeana.** | | | 1 | | | | | | | | 1 | |
| **WFR.04.06 - Align validation** | **The system ensures that successful validation warrants validation by Europeana at ingestion as well.** | 1 | | | | | 1 | | | | | | |
| **Supply** | | | | | | | | | | | | | |
| **WFR.05.01 - Automatic supply** | **The system supplies prepared and validated data to Europeana by push or pull.** | | 1 | | | | | | | | | | |
| **WFR.05.02 - Re-supply functionality for failed records** | **In case of an error the system is able to start the supply process again only for the failed records.** | | | 1 | | | | | | | | | |
| **WFR.05.03 - Schedule data supply** | **The system can be scheduled to supply data at a predefined date/time.** | | | 1 | | | | | | | | | |
| **WFR.05.04 - Tools for third-party collaboration** | **The system facilitates the supply of data to platforms other than Europeana as well and provides the necessary tools (e.g. licensing filters and query APIs).** | | | 1 | | | | | | | | | |

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| **Data acceptance** | | | | | | | | | | | | | |
| **WFR.06.01 - Preview presentation Europeana** | **The system is able to preview the data representation in Europeana before it's being published.** | 1 | | | | | | 1 | | | | | |
| **WFR.06.02 - Withdraw records** | **The system can withdraw earlier delivered records instantly from Europeana by instructions of the involved CP.** | | | 1 | | | | | | | | | |
| **WFR.06.03 - Update published records** | **The system can keep the data that are already in Europeana-up-to-date.** | | | 1 | | | | | | | | | |
| **WFR.06.04 - Publication indication** | **The system gives an indication about the processing steps and scheduling in Europeana.** | | | 1 | | | | | | | | | |
| **WFR.06.05 - Automatic publication alert** | **The CP is informed on publication of the data on the target website (Europeana or aggregator).** | | | 1 | | | | | | | | | |
| **Enrich and Return** | | | | | | | | | | | | | |
| **WFR.07.01 - Available enriched content alert** | **The system reports on available enriched content.** | | | 1 | | | | | | | | | |
| **WFR.07.02 - Acceptance or declining of enrichments on record level** | **The system allows CP to accept or decline the enriched data (entire records).** | | | 1 | | | | | | | | | |
| **WFR.07.03 - Automatic ingest of enriched data** | **Enriched data is ingested automatically in the CP's system after approval by the CP.** | | | 1 | | | | | | | | | |

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| **WFR.07.04 - Separate enriched data** | **The system allows separation based on the origin of the metadata (e.g. original, enrichment, human, machine, user, expert).** | | | 1 | | | | | | | | | |
| **WFR.07.05 - Enriched IPR identification** | **The system provides insight in the additional IPR and, for user-generated content, privacy issues regarding the data from external origin.** | | | 1 | | | | | | | | | |
| **WFR.07.06 - Choose target ingest** | **The system allows return data to be ingested in the system of choice by the CP.** | | | 1 | | | | | | | | | |
| **WFR.07.07 - Acceptance or declining of enrichments on field level** | **The CP can either accept or decline the enriched data (on field level).** | | | 1 | | | | | | | | | |
| **WFR.07.08 - Persistent ID's enrichment** | **The URIs or PIDs enhanced by the system are sent back to the content provider (ref.: WFR.03.26. Apply PIDs).** | | | 1 | | | | | | | | | |
| **WFR.07.09 - Pull option** | **The ECK contains a pull option, at the request of the data provider:<br>- Immediate, delayed or according to a preset schedule;<br>- Full or filtered: e.g. related to a specific object or group of objects.** | | | 1 | | | | | | | | | |
| **WFR.07.10 - Enriched data management** | **The system provides management information on which returned enriched data sets are ingested in the CP's system.** | | | 1 | | | | | | | | | |

## Appendix II: Content Providers Survey iteration 3

| Content Provider | Sufficient assistance and documentation by TP | To be improved for i4 | Difficulties in completing the Acceptance Test Form | Communication Basecamp |
|---|---|---|---|---|
| **Benaki Museum (BEN) (GR)** | Assistance has been provided when asked but there was not enough time since there was a conflict with the dates of harvesting our data by Europeana. | More time for testing | No | There was not enough time for Basecamp discussions. We mostly used telephone for immediate answers. |
| **National Gallery-Alexandros Soutzos Museum (NAG)** | Yes | Full preview of the mapped fields from local schema to Lido. We could only preview four fields and only some of the objects' images. | No, we didn't experience any difficulties, the Evaluation Functional Requirements Acceptance Test Form was quite clear. | The person from Zetcom that is mainly involved with the development of MCK, Jette Klein-Berning, had to be in contacted directly as well as the other members of the supporting TPs, because the issues were not broad but rather specific to our installation. |
| **Stiftung Preussischer Kulturbesitz (SPK) (DE)** | Yes, we received all documentation in due time. And the possibility to set a telephone conference | Our timing, will try to react faster for next test. | Some issues that arise in the "preparation" WFR rise again in "validation". | No, we were past deadline and those small difficulties we have are due to our own IT restrictions.<br>We communicated with ZETCOM via email |
| **Koninklijke Musea voor Kunst en Geschiedenis (KMKG) (BE)** | Yes, Zetcom provided documentation prior to the installation of the new functionalities. Assistance was given by email/phone/ISL. Detailed instructions were given to test the new functionalities and questions were answered quickly and efficiently. | There is a long list of functionalities that need to be tested. There was not enough time to test all the developed functionalities accurately. | No | No, there was no time to communicate via Basecamp. All questions went directly to Zetcom. |
| **KADOC – KU Leuven (BE)** | Yes | Nothing | No | No, not enough time |
| **Institut Royal des Sciences Naturelles de Belgique RBNIS (BE)** | Assistance via presentation and documentation of TP was sufficient | No remarks | No difficulties | No, issues were discussed directly with TP and other CP's during the testing event (April 2, 2014) |

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| **Petofi Irodalmi Muzeum - PIM (HU)** | Yes | As always it would be nice to start earlier, but the process itself, is OK. | It is just long and I had short time to complete it. | No, we discussed the problems via Skype. |
| **Magyar Nemzeti Múzeum - MNM/HNM (HU)** | Yes, the cooperation was close | Mapping editing should be more user friendly | No | No, because we were communicating with our technical partner on a weekly basis |
| **Szepmuveszeti Muzeum - FAB (HU)** | *no test results on iteration 3* | *no test results on iteration 3* | *no test results on iteration 3* | *no test results on iteration 3* |
| **Stiftelsen Länsmuseet Västernorrland – SLV (SE)** | Yes | Easier access to the OAI-PMH function in the dark aggregator | No | No |
| **Municipio do Seixal – SEI (PT)** | Regarding the CMS we have regular assistance (mainly through remote access or e-mail) and available documentation | We have talked with our TP about the possibility to test ECK modules during iteration 4 even if they aren´t integrated on our CMS version. | No | No |
| **Erfgoedplus (subcontractor LIBIS - KU Leuven)** | Testing was organized on a single day (workshop style). In my view this is too short to really appreciate whether the application can be used without the direct assistance of the TP | Better would be a spread testing process: e.g. one day workshop/explanation by the TP, then a period for individual testing, and finally a wrap-up session for evaluation. | Only part of the ECK functionality could be tested because the central modules are only geared for LIDO dataformats. | No, testing was concentrated on one day. Basecamp discussion requires a longer for q & a. |
| **Galerija Božidar Jakac (GBJ) (associate testing partner)** | Yes | No | No problems | Gave feedback directly to TP (Semantika) |
| **Muzej narodne osvoboditve Maribor (MNOM)** | Yes | No | No | We received support directly from TP (Semantika) |

| Content Provider | Overall evaluation | Where you able to test the 2 new functionalities: data push or Pull and content re-ingestion? Why not? |
|---|---|---|
| **Benaki Museum (BEN) (GR)** | Good | Only push. Our data is not yet on Europeana and enrichment could not be tested due to Europeana's priorities |
| **National Gallery-Alexandros Soutzos Museum (NAG)** | Good: Supply and Data Acceptance features are working good, however some FRs are not fully developed. See our evaluation form for details. | We tested Push but not Content re-ingestion because the relative Europeana api is not ready yet. |
| **Stiftung Preussischer Kulturbesitz (SPK) (DE)** | Good.<br>Within the limited WFR we can test, we have noticed some improvements since last iteration. | No.<br>Our collection management system is a version of MuseumsPlus called MDS.<br>The ECK instance for MuseumPlus users (called MCK) runs externally from our MDS instead of being integrated. This is because the environment where our MDS System runs is an intranet that does not allow connectivity from external web services.<br><br>The MCK runs as a local application independent from MDS. This means, that only functionalities that are inherent to the ECK (and not combined with the CMS) run properly. Therefore there are limited WFR that can be actually tested by SPK. At the moment we can comply with selection, preparation and a LIDO validation WFR; and limited management WFR. But no EDM validation, supply and acceptance, these are performed externally in the Dark Aggregator.<br>For this iteration, the PUSH is only active for batch local export. |
| **Koninklijke Musea voor Kunst en Geschiedenis (KMKG) (BE)** | Good, most of the required functionalities for iteration 3 were present and worked. Not all functionalities are user friendly. | No, only Push to the DA was tested. All the functionalities to test content re-ingestion were installed by Zetcom in the CMS, but could not be tested yet due to a delay in the API from Europeana. |
| **KADOC – KU Leuven (BE)** | Good, a lot of functionalities available | Data push (to dark aggregator) was tested.<br>Content re-ingestion was not tested, because Europeana API needed for re-ingestion is not ready yet + KADOC data still needs to be published on Europeana. Information session and quality check on the metadata fields that will be enriched. |
| **Institut Royal des Sciences Naturelles de Belgique RBNIS (BE)** | Quit good, a lot of FR's are available | Tested: data push to DA.<br>Not tested: content re-ingestion<br>- RBINS content is not yet published in Europeana<br>- Europeana API for re-ingestion is not available |

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| **Petofi Irodalmi Muzeum - PIM (HU)** | It's good because it's working and easy to use. Literally you just select your records and push the Data Push button. The reason why it's not very good is the complicated configuration process, e.g.: if you want to change the mapping you need to edit XSLT source code, if you want to change the target aggregator you need assistance from Monguz etc. | Data Push is tested and it's working (Pull was tested earlier and it was working as well). Content re-ingestion function can only be tested with the demo records of the Imperial War Museums because Europeana doesn't give back enriched data at the moment. |
| **Magyar Nemzeti Múzeum - MNM/HNM (HU)** | Good | data push and pull: yes<br>content re-ingestion: demo |
| **Szepmuveszeti Muzeum - FAB (HU)** | *no test results on iteration 3* | *no test results on iteration 3* |
| **Stiftelsen Länsmuseet Västernorrland – SLV (SE)** | Good | No access to the OAI-PMH function for pull and re-ingestion |
| **Municipio do Seixal – SEI (PT)** | Not applicable. The developments are made under the new CMS version 7 of Mobydoc, for the time being. We have the version 6. These functions weren't possible to test for now. | The data push or pull went well. As a CP partner we didn't tested the functionalities for content re-ingestion. |
| **Erfgoedplus (subcontractor LIBIS - KU Leuven)** | Disappointing. Much functionality requires a lot of explanation. Some ECK functions are not addressing the real problems: e.g.<br>- the preview function is based on LIDO, while the need is for seeing how the EDM looks like in Europeana;<br>- the PID service is a simple string concatenation function that can be implemented more easily (and less expensive) in one-line in a local script. What is really needed is a solid agreement on how to deal with the composition and the persistence of the identifiers. | No, content re-ingestion was not available yet; push and pull seemed to be in place only for LIDO data, and not for MARC. |
| **Galerija Božidar Jakac (GBJ) (associate testing partner)** | Good | We and Semantika plan to do this in the next iteration with the content we prepared |
| **Muzej narodne osvoboditve Maribor (MNOM)** | Good. Our users noted that some other improvements to the CMS were made as a result of the ECK | No. We didn't have all data prepared yet. We hope to do this in the next version |