OpenAIRE compatibility for CRIS systems: recent progress
The CERIF-XML Guidelines have been around...

OpenAIRE Guidelines for CRIS Interoperation based on CERIF XML

http://hdl.handle.net/11366/150

http://hdl.handle.net/11366/321

http://hdl.handle.net/11366/502
... but we still do not have any CRIS data provider

https://www.openaire.eu/search/data-providers#cris
Main reason why: updated Guidelines for CRIS

OpenAIRE Guidelines for CRIS Managers updated
Jochen Schirrmegen : 2018-01-31 : infrastructure services & data, scholarly communication : Add Reply

This is to announce the draft publication of the updated OpenAIRE Guidelines for CRIS Managers. As of January 31st, 2018, the updated version has been completed for the CRIS Guidelines that were originally released in July 2015. The current release is published under an RFC status.

OpenAIRE Guidelines for CRIS Managers, version 1.1
Jan Dvořák, Andrea Bollini, Laurent Remy (editors)

https://blogs.openaire.eu/?p=2793
A couple of interesting case studies

- There are issues for EU-funded project outputs to reach the OpenAIRE aggregation where an institutional repository is not OpenAIRE-compliant
- This is frequently the case in the UK at the moment – with a large amount of EU-funded projects coordinated in the country
- In order for this lack of system interoperability to be tackled, institutions are frequently deposing items twice: first in their IR, then in Zenodo
- This is not reasonable
A couple of interesting case studies

There are countries where a national-level CRIS systems contains a far larger amount of information on research outputs than the network of OpenAIRE-compliant institutional repositories.

In these cases, a large fraction of the records for EU-funded project outputs never make it into the aggregation – again due to the lack of system interoperability between CRISs and OpenAIRE.
There is progress to report though.

### Projects

* euroCRIS is currently participating in various international projects. These include some EU-funded projects. On top of this, funding has recently been secured for the OpenAIRE-supported METIS2OpenAIRE project.

### Ongoing projects

**METIS2OpenAIRE (2018-02-01 to 2018-05-15)**

The METIS2OpenAIRE project has been awarded funding under the end-of-2017 OpenAIRE call for tenders. The project, funded in the category of 'Repository Tools and Services', sets out to make a first institutional CRIS system compatible with the recently released updated version (v1.1) of the CERIF-XML OpenAIRE Guidelines for CRIS Managers. This work to enhance system interoperability will first and foremost be carried out on the METIS CRIS at Radboud University Nijmegen in the Netherlands. In order to ensure a widespread adoption of the new OpenAIRE Guidelines, the project is also working with two external, budget-neutral partners that have committed to its implementation on their respective solutions: these are Pure and OMEGA-PSIR.

**Jisc Research Data Shared Service (RDSS)**

Collaboration with the Jisc RDSS project for the CERIFICATION of the underlying data model. The Jisc RDSS aims to enable researchers to easily deposit data for publication, discovery, safe storage, long term archiving and preservation. euroCRIS is teaming up with the Jisc in order for the RDSS solution to achieve the maximum possible degree of system interoperability that

“METIS2OpenAIRE sets out to make a first institutional CRIS system OpenAIRE-compatible as per the updated version of the CERIF-XML Guidelines for CRIS Managers”
METIS2OpenAIRE project

METIS2OpenAIRE partners
- euroCRIS
- METIS institutional CRIS at Radboud U

External, budget-neutral partners
- Pure (Elsevier)
- Omega-PSIR

WP1: Coordination

WP2: Technical development
   Task 2.1: Enabling OAI-PMH CERIF feed exposure via OAI-PMH endpoint
   Task 2.2: Development of the OAI-PMH test drive validator
   Task 2.3: Integration testing for the OAI-PMH CERIF feed from METIS
   Task 2.4: Assisting the (external) CRISs in the mapping of their internal models to meet the requirements expressed by the OpenAIRE Guidelines

WP3: Dissemination

https://www.eurocris.org/projects/metis2openaire
A minimally sufficient CRIS validator

- Checks all nine sets (or object types) exposed via the CRIS OAI-PMH endpoint
- Integrity checks plus validation of every record against the XML Schema defined in the specification
- 300,000 METIS records
- Openly available in Github
- Being tested with 'external' METIS2OpenAIRE partners
- Two-way enhancements as a result of issues encountered while testing
Concurrent progress taking place

4Science awarded by OpenAIRE!

The proposal for an implementation, aimed at increasing the interoperability features supported by the most broadly used platforms in the open science ecosystem for Literature Repositories, Data Repositories, Journals platforms and CRIS/RIMS, such as DSpace, Dataverse, OJS and DSpace-CRIS, has been selected for funding, under the OpenAIRE call for services, launched last December.

The tender by 4Science focuses on two main topics:

- implementation and customization of new protocols;
- implementation of OpenAIRE metadata guidelines and OpenAIRE-APIs interaction.

In particular, 4Science will implement:

- the Signposting patterns in OJS;
- the ResourceSync framework in DSpace;
- the OpenAIRE Guidelines for Data repositories in Dataverse and DSpace-CRIS;
- the OpenAIRE project API in DSpace-CRIS.

Next steps: making the handshake happen

- End-goal is to have CRIS records displayed within the OpenAIRE aggregation: not there yet
- Work around METIS to continue beyond funded-stage of METIS2OpenAIRE to make this handshake happen
- 300,000 METIS records already available for ingestion
- A persistent unique identification for the provenance is required
- euroCRIS Directory of Research Information Systems (DRIS) a potentially useful starting point
Thanks!

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