

Recommendation on 4Science DSpace Code Implementation

CARL Open Repositories Working Group (ORWG) OpenAIRE Task Group (2021-03-19)

This document provides guidance for the use of the [4Science patch to support OpenAIRE Guidelines for Literature Repositories Version 4 in DSpace 5 & 6](#). All links necessary to install the patch are also provided.

If you are using DSpace 5.x or 6.x, 4science has provided the Code for OpenAIRE compliance et ORCID functionalities (see references below) referred to as 4Science DSpace Patch. This code must be used with caution as it may cause major problems when upgrading to DSpace 7 (see DSpace Github [Pull request 2709](#)). We do not recommend the use of the complete code provided by 4science unless you are able to manage all dependencies.

It is very unlikely that the full “out-of-the-box” support via [Pull request 2709](#) (V6) or [Pull request 2703](#) will be accepted for DSpace either 6.4 or 5.11 version due to the DSpace 7 conflicts regarding the schema changes (hence the creation of [Pull Request 2859](#) which was accepted).

DSpace 6.4 will include the OpenAIRE compliance from the 4Science Patch. However its release timeline remains uncertain as it relies exclusively on volunteer work from the community (see DSpace 6.4 [Release Status](#)).

No plan to add OpenAIRE compliance to DSpace 5.x is known at this time. Its inclusion will rely on volunteer work from the community.

Queen’s University has implemented the 4science Patch in Qspace:

<https://qspace.library.queensu.ca/oai/>

- Journal article example:
https://qspace.library.queensu.ca/oai/openaire4?verb=GetRecord&metadataPrefix=oai_openaire&identifier=oai:qspace.library.queensu.ca:1974/5304
- Thesis example:
https://qspace.library.queensu.ca/oai/openaire4?verb=GetRecord&metadataPrefix=oai_openaire&identifier=oai:qspace.library.queensu.ca:1974/750

Two bugs related to the 4Science Patch have been logged:

1. <https://jira.lyrasis.org/browse/DS-4550> (OpenAIRE and dc.relation, created by Gabriela, September 1st). Bug created following the 2 issues:
 - a. <https://github.com/4Science/DSpace/issues/162> (openaire-lit-v4_dspace5)
 - b. <https://github.com/4Science/DSpace/issues/161> (openaire-lit-v4_dspace5 bugs and comments).

4Science DSpace patch reference

The complete code for *version 5* is available here:

https://github.com/4Science/DSpace/tree/openaire-lit-v4_dspace5

The complete code for *version 6* is available here:

https://github.com/4Science/DSpace/tree/openaire-lit-v4_dspace6

Using this code, no extra effort is required other than building and deploying the new version.

Four pull requests were opened:

- A. Implementation of the OpenAIRE Guidelines for Literature Repository Managers v.4, including ORCID and Funding Reference in OAI

(<https://jira.lyrasis.org/browse/DS-4149>)

Version 5_x: <https://github.com/DSpace/DSpace/pull/2703>

Version 6_x: <https://github.com/DSpace/DSpace/pull/2709>

- A. Porting of ORCID support to the JSPUI (<https://jira.lyrasis.org/browse/DS-2715>)

Version 5_x: <https://github.com/DSpace/DSpace/pull/2704>

Version 6_x: <https://github.com/DSpace/DSpace/pull/2710>

The documentation is available at:

<https://wiki.lyrasis.org/display/DSPACE/OpenAIRE+Literature+v.4>