Status of discussions with repository platforms: DSpace

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https://bit.ly/coar-dspace



Initial context

As the most commonly used repository platform DSpace software is critical for the implementation and uptake of Notify

In Portugal PUBIN (<u>www.pubin.pt/</u>) project (2019-2022) aimed to promote and facilitate interoperability, integration and innovation in the Portuguese open access publishing ecosystem.

Most of the action were directed towards journals, journal editors and software platforms

But we decided to also invest in the innovation of the repository platform used by all Portuguese repositories - DSpace - to promote overlay publishing

Initial context

PUBIN decided to fund initial/pilot implementation of Notify in DSpace

Considering time and financial limitations it was decided to implement in DSpace 5 and 6, JSPUI only

The aim was to create a minimum viable product that supports basic interactions between the repository and peer review service, but could be enhanced with greater functionality over time

Where we are

The MVP have been implemented for DSpace v5 and v6 JSPUI only

- https://github.com/4Science/DSpace/tree/coar-notify-5
- https://github.com/4Science/DSpace/tree/coar-notify-6

Documentation is available in github as README.md

Porting to version 7 is ongoing, help and feedback are welcome!

Latest code:

- https://github.com/4Science/DSpace/tree/main-coar-notify
- https://github.com/harvard-lts/DSpace/tree/main-coar-notify

Issue tracking pending subtasks for MVP

https://github.com/harvard-lts/DSpace/issues/2

:= README.md

Notify Project Documentation

Idn-coar-notify.cfg - Configuration

The notify project includes some limits to communications between hosts, in particular only allowed hosts can reach the Idn-InBox and record status updates about items.

To reach this result, the file **Idn-coar-notify.cfg** under the path **dspace/config/modules** needs to be configured as follow:

· Setting up the trusted hosts which can reach out the Idn-inBox endpoint

trusted hosts can be configured in two different ways, both ways can be used at the same time as needed.

```
ldn-trusted.from.ip = ldn-trusted.from.hostname =
```

trusted hosts can be set up using their IP addresses if they're static and known or using the hostnames which represents the easiest and most dinamic solution. (This solution uses the DNS to retrieve dinamically the IP addresses)

Here's an example of configuration for both properties:

ldn-trusted.from.ip = 192.168.0.32, 192.168.1.58 ldn-trusted.from.hostname = example.com, ldninbox.antleaf.com/inbox

This step is mandatory, otherwise no host will be able to perform any operation on the repository

· Configuring review/endorsment endpoints, IDs, and names

The next step is configuring review and endorsement IDs, the same IDs need to be specified in input-form.xml file and must match with these ones. Note the IDs must match with resource ID path given in the JSON-LD request body (Without including http://or/https://).

Using:

service.service-id.ldn = service1, ..., service2

example

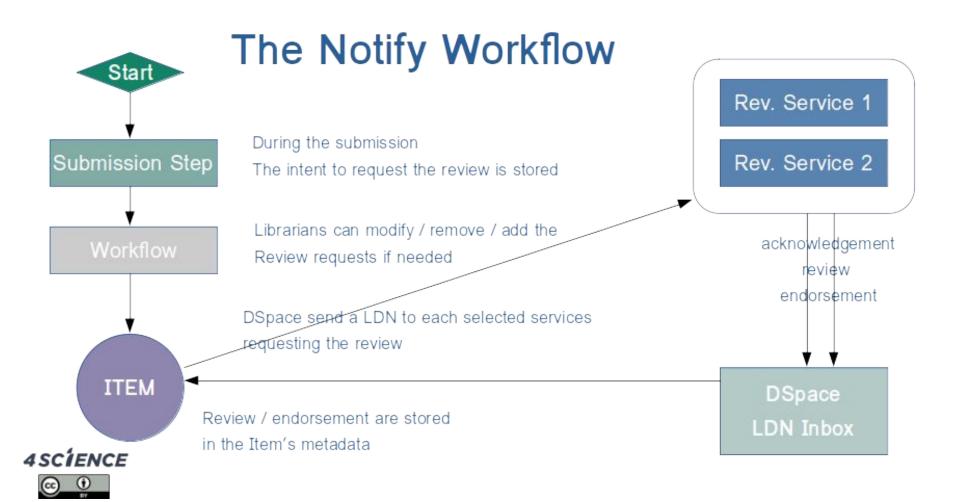
service.service-id.ldn = example.com, ldninbox.antleaf.com/inbox

we can define IDs for services. Services listed under review.service-id-lidn are used for the review or endorsement process. To define whether the service provides both review and endorsement we need to set up the following property:

service.<service-id>,endorsement = true Here is an example of configuration for this property:

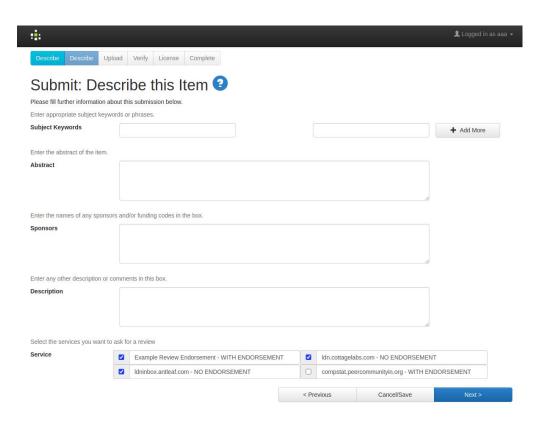
service.example.com.endorsement = true | service.ldninbox.antleaf.com/inbox.endorsement = false

Note that "example.com" and "Idninbox.antleaf.com/inbox" are the services IDs.



Asking Review during the submission is the first step

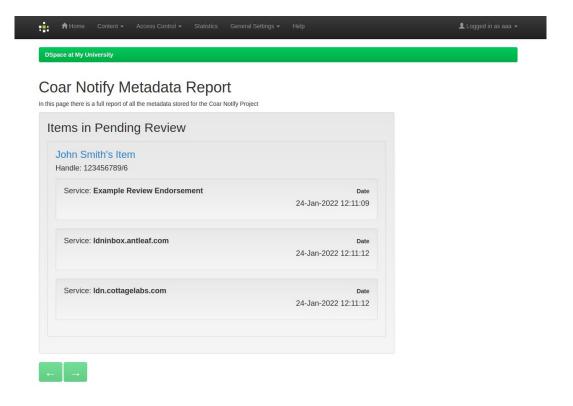
The list of services is configurable but known in advance to the repository system administrator



Monitor the status of the notify conversation

Coar Notify Metadata Report In this page there is a full report of all the metadata stored for the Coar Notify Project Status Items Pending Review 1 Ongoing 1 Reviewed 1 Pending Endorsement 0

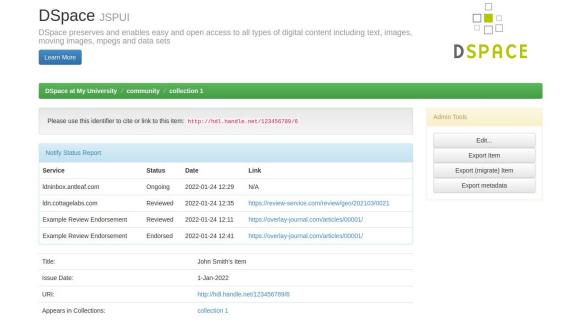
Endorsed



Results

Results: links to the review and/or to the endorsement (overlay journal) from the repository

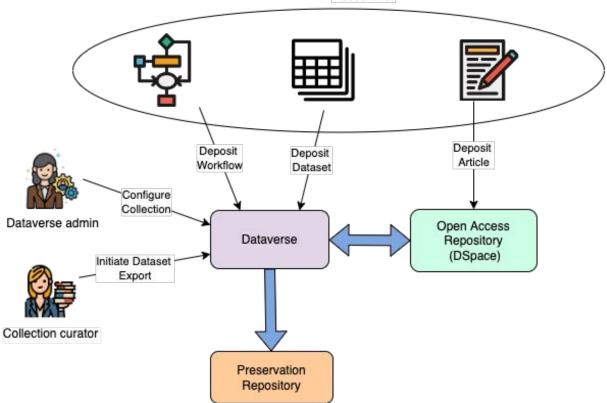
...but the framework is general and can be easily extended supporting also unexpected scenarios

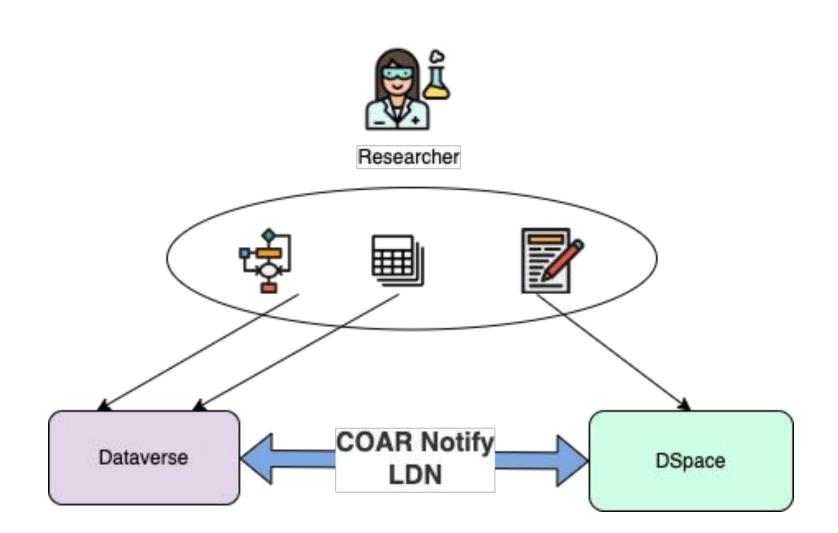


Harvard Data Commons



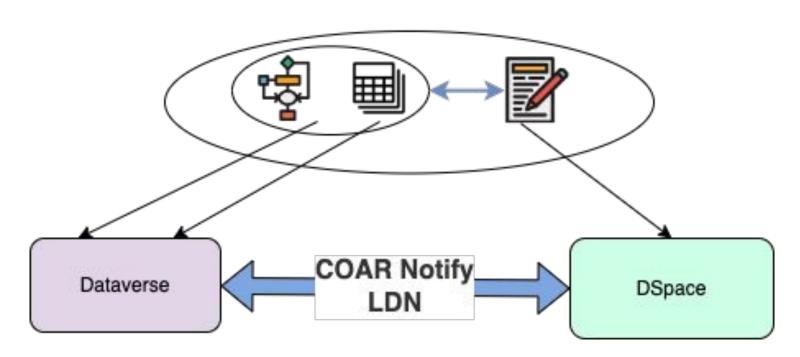
Researcher







Researcher



Harvard Library - Advancing Open Knowledge

Invest in open-access infrastructure and services that support equitable, sustainable models for scholarly communication and open knowledge

Advancing Open Knowledge

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DSpace

- Stefano Maffei < stefano.maffei@4science.com >
- William Welling < william welling@harvard.edu >

Dataverse

Jim Myers < qqqqmyers@gmail.com>

Concluding remarks

We are in contact with DSpace leadership to include LDN/Notify implementation into the codebase of one of the next releases (7.4?, 7.5?)

In the context of the funded Notify project, there will be opportunities (and resources) for further refinements/developments in DSpace