ORCID

ORCID Integration Use Case Documentation

1. Use case name

Integrate Hydra and Fedora based repository with ORCID

2. Institution name

- Primary: University of Notre Dame

- Community: Hydra Project

- Other Institutions collaborating: Northwestern University, Yale University, University of Cincinnati, Penn State University, University of Virginia

- Other Adopter Institutions: Stanford University, Royal Library of Denmark, University of Hull (UK), Indiana University

3. Project goals and scope

Please provide an overview of your project, why your organization chose to undertake it, what you hoped to achieve, and the scope of the project.

Recognizing the need for disambiguating researchers from others within our own institution and externally, and ORCID as strong community standard. Also, recognizing that demonstrating the impact of a researchers work is key for both the university and to increase adoption of our repository services and it is very difficult to do without strong authority control, it was clear we needed to integrate our repository services with ORCID. We saw it even more compelling to both support an enlist the help of our institutional partners on the Hydra project, and it was clear we should create a plug-in that any institution using Hydra can use to integrate with their Fedora Commons repository.

In Scope Use Cases:

- *Any repository system using Hydra can**
  - *Create ORCID id for a single repository user*
  - *Search for and retrieve existing ORCID id for a repository user*
  - *Link either newly created ORCID id or existing ORCID id with a repository user*
  - *Authenticate to the repository using the ORCID id*
  - *Create non-university repository accounts with ORCID id as the primary id*
  - *Batch create ORCID ids for a list of people or department*
  - *Harvest orcid-bio information for linked ORCID ids*
  - *Harvest orcid-work records and link to/create metadata records in the repository*
  - *Export orcid-bio information for linked ORCID ids in repository to ORCID*

- *Export work metadata records in repository associated with ORCID ids to ORCID*
- *Repository users include*
  - *Research Faculty*
  - *Researchers*
  - *Library Faculty*
  - *Graduate Students*
  - *Undergraduate Students*
  - *University Staff*
  - *External Research Collaborators*

* Usage is not limited to just Fedora or Hydra. Any Institution with a Ruby on Rails (RoR) application can utilize the Ruby 'orcid' gem component to perform all API requests to ORCID for all of the above.   This allows integration with any CRIS system, or other web application. They may just need to link it to their user interface, and/or create component that maps orcid-bio and orcid-work records to and from records within their system (repository or otherwise).

Future (out of scope)

- *Harvest ORCID id information connected with the University (to capture records not already harvested through previous ORCID id linking or management in the repository)*

4. **Is your organization willing to serve as a resource for other organizations pursuing ORCID integration? Yes**
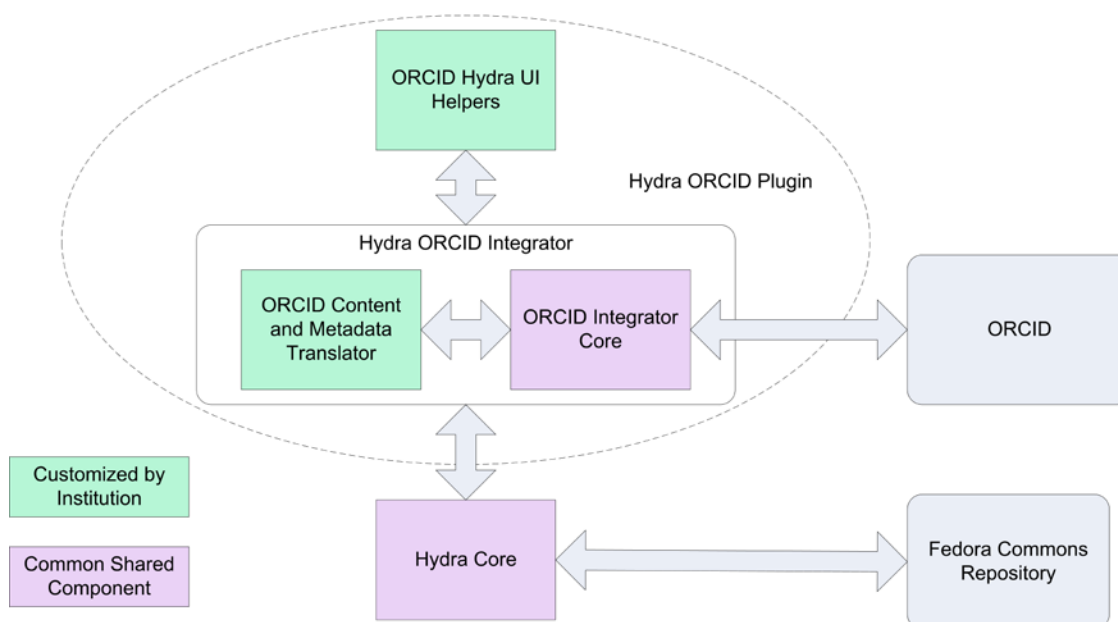
5. **Project personnel**

   Please include name, title, phone number, and email address for each contact:

   a. Project leader: Rick Johnson (http://orcid.org/0000-0002-1550-6325), University of Notre Dame, 574-631-1086, rick.johnson@nd.edu

   b. Technical contact: Jeremy Friesen (University of Notre Dame), Digital Library Frameworks Specialist, 574-631-8569, jfriesen@nd.edu

   c. Other team members:

   - Mike Stroming (Northwestern University), m-stroming@northwestern.edu
   - Paul Clough (Northwestern University), p-clough@northwestern.edu
   - Sue Richeson (University of Virginia), spr7b@eservice.virginia.edu
   - Eric James (Yale University), eric.james@yale.edu
   - Glen Horton (University of Cincinnati), hortongn@ucmail.uc.edu
   - Patrick Burke (University of Cincinnati), burkepk@ucmail.uc.edu
   - Carolyn Cole (Penn State University), cam156@psu.edu

6. **System(s) involved.** Provide a workflow diagram showing where ORCID identifiers were collected and the system(s) modified to collect and/or store ORCID identifiers.

A sample workflow diagram is available at https://orcid.org/blog/2013/08/08/suggested-practices-collection-and-display-orcid-ids-publishing-workflows?lang=zh-hant.

Hydra ORCID Plugin Architecture

7. Project timeline

Please provide a brief overview of when your project began and its timeline for completion.

- *Jul, 2013: Submit Proposal to ORCID*
- *Sept, 2013: Received Grant Award*
- *Oct-Nov, 2013: Continue planning on plug-in implementation*
- *Dec. 1, 2013 – Feb- 28, 2014: Create ORCID Hydra Plug-in Prototype*
- *March 3-7, 2014: Hydra Dev meeting among contributing Hydra partners*
- *March 10-May 1, 2014: Implement content and metadata translators at each institution and UI Interfaces in repository tools at each institution*
- *May 21, 2014: Present work at ORCID outreach meeting*
- *July 1, 2014: Release ORCID support to production at Notre Dame, and other institutions*

8. Project web page(s)

https://wiki.duraspace.org/display/hydra/Hydra+ORCID+Plug-in

9. **Please identify the stakeholder groups within this project and describe the outreach/communications work your organization arranged in advance of implementation.** Which stakeholders did you contact? How did you organize a team? What were the policy impacts?

- We reached to our leaders within our Office of Research, Provosts office, and other colleges to seek support. The Office of Research agreed to help us promote the use of ORCID ids for all grant awardees.

- We presented our overall plan and surveyed the Hydra community for other institutions that would be willing to contribute, adopt, or support the effort

- We then solicited letters of support from those institutions and campus partners

10. **Please provide an overview of your communications plan as well as examples of your communications outputs,** which may be adapted by other organizations for their integrations.

   We have two primary phases to our communication plan:

   - *Phase 1 raise awareness about ORCID independent item*
     - *Communicate details of our grant related efforts in a press release*
     - *Highlight partner institutions and their contribution*
     - *Drive awareness and understanding of ORCID before the summer among faculty and students with messages tailored to each group*
   - *Phase 2 how it ties into university mission and institutional repository*
     - *Promote alongside Repository and bigger conversation around access discoverability, mandates*
     - *Give context of how ORCID helps with research goals and university goals*
     - *University Library introduce ORCID university wide and at college level*
     - *Gain promotion support from Provost and Office of Research via conversation with UL*
     - *Targeted marketing tailored to each group of leadership, faculty, departments, students*
     - *Library subject matter experts promote within support academic departments*

11. Are you willing to share your source code? If yes, please provide a link.

   Yes, the current location of the code is:

   https://github.com/jeremyf/orcid

   However we intend to migrate it to the projecthydra account on github in the near future. The url will likely look like: https://github.com/projecthydra/orcid