Working together to make ORCID work for repositories

ORCID in repositories task force

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Liz Krznarich, ORCID  https://orcid.org/0000-0001-6622-4910

slides: https://orcid.figshare.com
About this time last year...
A brief history of ORCID in repositories...
Repositories have been on our minds at ORCID since the beginning

**Our goal:** Help make scholarly communication workflows easier for everyone...enter once, reuse often
Where does ORCID fit?

Author disambiguation
Connect IDs to repository author profiles

Discovery
Export to ORCID, so ORCID users and data consumers can access

Ingest
Import new items from ORCID
Author disambiguation
Connect iDs to authors/contributors in the repository

Discovery
Export to ORCID, so ORCID users and data consumers can access?

Ingest
Import new items from ORCID?

THEN (2014)

Not much data in ORCID yet, so nothing to ingest
Not many systems using ORCID yet, so no one to find things you put there
DSpace (U of Missouri / Atmire)

Batch update author iDs from CSV file

Became part of DSpace v5 (2015)

Search for author in ORCID

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A whole lot has changed since then!
Fancy charts 2014-2019
Live ORCID iDs

2014: 728,137
2015: 1,000,000
2016: 2,300,000
2017: 3,500,000
2018: 4,900,000
2019: 6,460,000
Fancy charts 2014-2019
ORCID member organizations
The result?

More Data

added to + consumed from ORCID
NOW
More things are possible!

Author disambiguation
Connect iDs to repository author profiles

Discovery
Export to ORCID, so ORCID users and data consumers can access

Ingest
Import new items from ORCID
A new generation of repository integrations
User creates/connects ORCID iD to profile.

New publications harvested from ORCID & other sources appear as incomplete submissions; user is prompted to log in and complete.

User can choose to allow UNE to update ORCID with any missing publications.
User creates/connects ORCID iD to profile

iD shown in all locations where author info is displayed

ePrints Plugin (JISC / EPrints Services)
https://wiki.eprints.org/w/ORCID_Support#ORCID_Support_Advance
ePrints Plugin (JISC / EPrints Services)
https://wiki.eprints.org/w/ORCID_Support#ORCID_Support_Advance

Users or admins can import records from ORCID

...and export records to ORCID
DSpace-CRIS
https://wiki.duraspace.org/display/DSPACECRIS/ORCID+Integration

User creates/connects ORCID iD to profile

iD displayed on researcher page

Images from DuraSpace Wiki, used under CCBY 4.0 license
DSpace-CRIS

https://wiki.duraspace.org/display/DSPACECRIS/ORCID+Integration

Data synchronization between ORCID and DSpace-CRIS
That’s great news!

...if you’re using ePrints or DSpace-CRIS, have vast software development resources, or are some kind of wizard

If not, then what???
What can we do?

Let’s get together!

ORCID in repositories Task Force

Aug - Dec 2018

• Define common community needs around ORCID in repository software platforms
• Publish recommendations
Task force participants
15 members from 12 countries

(from a pool of 40+ applicants)
Task force participants

- Wesley Barry, TENET, South Africa
- Paola Galimberti, University of Milan, Italy
- Stephen Grace, London South Bank University, UK
- Daryl M. Grenz, KAUST, Saudi Arabia
- Masaharu Hayashi, National Institute of Informatics, Japan
- Salwa Ismail, Georgetown University, USA
- Bénédicte Kuntziger/Agnès Magron, CCSD, France
- Michele Mennielli, Duraspace, USA (Chair)
- Lars Holm Nielsen, CERN, Switzerland
- Sheila Rabun, LYRASIS, USA
- Andrea Szwajcer, University of Manitoba, Canada
- Washington R. de Carvalho Segundo, IBICT, Brazil
- Alicia Starr, Avondale College of Higher Education, Australia
- Irine Tanudjaja, National University of Singapore, Singapore
- John Westbrook, RCSB, Protein Data Bank, USA
Process

• **Aug 2018:** Reviewed JISC ePrints spec
• **Sept 2018:** Prepared draft recommendation
• **Oct/Nov 2018:** Public comment period (~30 participants!)
• **Dec 2018:** Reviewed public comments & prepared final recommendation
• **Feb 2019:** Released final recommendations [https://tinyurl.com/y2b7w7sz](https://tinyurl.com/y2b7w7sz)
Recommendations

The task force recommends that repository software platforms developed for distribution to others support these ORCID functions:

- Collect ORCID iDs
- Display ORCID iDs
- Exchange data with ORCID
- Include iDs in machine-readable outputs
- Configuration options + reporting tools
Collect ORCID iDs

• **Support collecting authenticated ORCID iDs**
  which means that users sign into ORCID and authorize the repository to obtain their iD (and, optionally, update permission)

• **Support other ways of obtaining ORCID iDs**
  Including in mediated deposits, bulk uploads by repository managers, and automated deposits from other systems

• **Allow admins to request authenticated iDs**
  and ORCID record update permission from authors and co-authors, in cases where iDs are missing or have not been authenticated
Display ORCID iDs

Support displaying ORCID iDs wherever user/contributor information is displayed

- iD icon followed by the full iD URI, inked to the iD URI: 
  ![iD Icon](https://orcid.org/0000-0002-1825-0097)

- iD icon, hyperlinked to the iD URI: 
  ![iD Icon](https://orcid.org/0000-0002-1825-0097)

- iD URI, hyperlinked to the iD URI: 
  ![iD URI](https://orcid.org/0000-0002-1825-0097)
Exchange data with ORCID

- Push/pull functionality should be configurable

- Admins should be able to:
  - Enable/disable the functionality
  - Choose whether users or only admins can import/export data
  - Choose to pull data only for authenticated IDs (pushing data requires an authenticated ID)
  - Choose which types of data to push/pull
  - Choose to exchange data on demand (one-time) or automatically, on a regular basis
Exchange data with ORCID

- If the system allows users to control ORCID push/pull, also users to configure settings, including:
  - Enable/disable the functionality
  - Choose to exchange data on demand (one-time) or automatically, on a regular basis
Machine-readable outputs

- Support exposing ORCID iDs in metadata outputs, such as OAI-PMH XML, wherever possible
- **Express ORCID iDs according to standards/best-practices** whenever possible (RIOXX, OpenAIRE, DCMI, etc)

```xml
<datacite:creators>
  <datacite:creator>
    <datacite:creatorName>Evans, R.J.</datacite:creatorName>
    <datacite:affiliation>Institute of Science and Technology</datacite:affiliation>
    <datacite:nameIdentifier nameIdentifierScheme="ORCID" schemeURI="http://orcid.org">
      1234-1234-1234-1234
    </datacite:nameIdentifier>
  </datacite:creator>
</datacite:creators>
```
Configuration options + reporting tools

- Provide testing, logging and reporting features for administrators
  - Connect to ORCID public OR member API
  - Connect to ORCID production OR sandbox test site
  - Export report of stored ORCID iDs, access tokens, etc

- Provide documentation about ORCID features, for both administrators and end users
Now what?

**ORCID is working on:**

- Engagement and advocacy w/vendors and developers
- Documentation/support for developers implementing recommendations

Look for updates on [https://orcid.org/about/news](https://orcid.org/about/news)!
What now?

Status updates:

• **DSpace**: It’s all about Entities; sometime after DSpace 7

• **Digital Commons**: Exploration happening now; detailed plans TBD
What now?

What can you do?

- **Vendors/developers:** Check out the [recommendations](#) and contact ORCID for guidance and support

- **Implementers:** Contact your vendor or open-source community!
Resources

- Task force recommendations: https://doi.org/10.23640/07243.7777274
- Blog post about the recommendations
- Task force charter
Thanks!

Liz Krznarich

e.krznarich@orcid.org

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Slides: https://orcid.figshare.com

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