Integrating ORCID in institutional and national CRIS

euroCRIS meeting, 22nd-23rd of November 2023

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Brief overview of ORCID
Integrating with ORCID
Integrating with ORCID in CRIS
Institutional and national cases
Q & A
A brief overview of ORCID
A Few ORCID Facts

● Independent not-for-profit open to participation by all
● Registry launched in 2012
● Sustained by fees from our member organizations
● Guided by our values and founding principles
● Community-governed by a Board of Directors representative of our membership
ORCID’s mission is to enable transparent and trustworthy connections between researchers, their contributions, and their affiliations by providing a unique, persistent identifier for individuals to use as they engage in research, scholarship, and innovation activities.

*We’ve been doing this since 2012*
ORCID provides three main services

The ORCID iD
A unique, persistent identifier free of charge to researchers

An ORCID record
A digital profile connected to the ORCID iD, that can include employment, education, funding, peer review, research output and other metadata

The ORCID APIs
A set of Application Programming Interfaces (APIs), as well as the services and support of communities of practice enabling interoperability between an ORCID record and member organizations
We have broad adoption around the world

Users in 250 countries
(That’s every country on the planet apart from Niue, Norfolk Island, and Saint Pierre and Miquelon)

Member organizations in 57 countries
(27 national consortia and 1 regional consortium)

Yearly Active Researchers
8 Million

Organizational Members
1,355

Active Integrated Systems
5,322

Data collected on the 7th of November 2023
More data available at https://info.orcid.org/orcid-statistics/
Researchers are at the centre of everything we do

In a nutshell:

Researchers securely share their IDs with the systems they interact with, proving them with their ID, and providing additional information.

These systems share information about researcher activities, creating a chain of validated and trusted assertions about researcher activity.

In these assertions, Persistent Identifiers (PIIDs) are key.

The right person gets credit for the right research activities and is associated with the right institutions. And it's automated.
We aim to balance researcher control and data quality

Researchers:
- Own their own records
- Control who accesses their information
- May change access preferences at any time

Terms of use prevent misrepresentation
- False data in records may be disputed by anyone in the community
- Machine-learning algorithm detects obvious spam
- Disputed and spam records are removed from use, pending correction or withdrawal

Organizations may only add information to ORCID records with the researcher’s permission, and may only update or delete information that was added by them

Trust in an ORCID record accumulates over time as reliable and trustworthy data sources add information (with the record holder’s permission)

https://info.orcid.org/balancing-researcher-control-and-data-integrity/
Integrating with ORCID
Integrations are key to deriving value from ORCID

- They connect an institutional system with the ORCID registry using the ORCID API.
- They require users’ authentication.
- They enable data synchronization with ORCID (when using the member API).
- They are *not* a data look-up in the ORCID registry.
Authentication is central in a user-controlled process.

User logs in to their ORCID account to ensure the app connects to the correct ORCID iD.

Who is asking

Which permissions are given
How to integrate? / **Three ways of doing it**

- **Use an existing certified service provider** (e.g. DSpace-CRIS, Symplectic Elements, OJS...)
- **Develop a custom integration** (for self-developed institutional systems)
- **Adopt the Affiliation Manager** (consortium members only)

Documentation: [https://info.orcid.org/documentation/integration-guide/](https://info.orcid.org/documentation/integration-guide/)
Certified service providers: [https://info.orcid.org/vendors-and-service-providers/orcid-certified-service-providers-list/](https://info.orcid.org/vendors-and-service-providers/orcid-certified-service-providers-list/)
Affiliation Manager: [https://info.orcid.org/affiliation-manager/](https://info.orcid.org/affiliation-manager/)
We re-launched our certification programme with best practice based requirements

Focus on 4 system types and the workflows they support

- Manuscript submission systems
- Research Information systems
- Repository systems
- Grant/facility application management systems

Pilot Partners

4Science (DSpace-CRIS); Altum (Proposal Central); Aries (Editorial Manager); Cambia (The Lens); Digital Science (Symplectic Elements); Elsevier (Pure); ExLibris (Esploro); InfoEd (InfoEd); PKP (OJS und OPS); Royal Society Te Aparangi (The New Zealand ORCID Hub); SmartSimple (SmartSimple Cloud); Vidatum Technologies (Vidatum Academic); Watermark (Faculty Success)
ORCID Certified Service Providers

- Editorial Manager®
- Open Journal Systems (OJS)
- Open Preprint Systems (OPS)
- DSpace-CRIS
- Elements
- InfoEd Global
- ProposalCentral
- IRIS - Institutional Research Information System

With many more working on certification

Contact us if you want to learn more or get your system certified

https://info.orcid.org/vendors-and-service-providers/orcid-certified-service-providers-list/
Developing a custom integration can take more time and effort, but we’re here to help.

1. Check in with the ORCID team regarding integration plans
2. Develop & test your integration using our Sandbox Testing Server
3. Learn about our integration best practices & ensure your integration meets our minimum requirements for launch.
4. Schedule a demonstration with our team
5. Once approved, apply for Member API Credentials
6. Launch your integration & communicate with the community

On average our members refer to 45-60 hrs of technical work to launch a custom integration including testing
Integrating ORCID in CRIS
To bear in mind / **Best practices for Research Information Systems are always a guideline**

Certified Research Information System Providers **MUST**:  
- Collect authenticated researchers’ ORCID iD and permissions  
- Display iDs of researchers  
- Use data from ORCID records to populate researcher profiles and discover new researcher activity  
- Add employment/education information to researchers’ ORCID records  
- Add works to researchers’ ORCID records (if applicable)  
- Add funding awards to researchers’ ORCID records (if applicable)  
- Enable ORCID member organizations to use their own ORCID membership credentials when configuring the system  
- Document how platform users can use the ORCID functionality offered in training and promotional materials

Source: [https://info.orcid.org/vendors-and-service-providers/csp-criteria-research-information-systems/](https://info.orcid.org/vendors-and-service-providers/csp-criteria-research-information-systems/)
To bear in mind / Best practices for Research Information Systems are always a guideline

Certified Research Information System Providers **SHOULD:**

- Add a link to the researchers’ profile in the Research Information System to their ORCID record

Certified Research Information System Providers **MAY:**

- Add an affiliation to visiting researchers’ ORCID records
- Allow administrators to associate ORCID iDs with [authors/contributors](https://info.orcid.org/vendors-and-service-providers/csp-criteria-research-information-systems/)

Source: [https://info.orcid.org/vendors-and-service-providers/csp-criteria-research-information-systems/](https://info.orcid.org/vendors-and-service-providers/csp-criteria-research-information-systems/)
Institutional and national examples
At an institutional level...
DSpace-CRIS - ORCID connections at the Universität Bamberg (Germany)

illig, steffen

Otto-Friedrich-Universität Bamberg: Bamberg, DE

Employment

Organization identifiers
GRID: grid.7356.8
University of Bamberg: Bamberg, DE
https://www.uni-bamberg.de/

Other organization identifiers provided by GRID
ISNI: 0000000123254853
ORCID: 530313
ROR: https://ror.org/01c1w6s29
WIKIDATA: Q7072772

Added
2020-11-21
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2020-10-11

Source: Otto-Friedrich-Universität Bamberg

Schnell zur Submission: Wege & Importe in DSpace verbessern

DSpace Praxisstreffen, 23. und 24. März 2023
2023-01-01 | Conference paper | Author
URL: uni/ba5951
URN: urn:nbn:de:bvb:473-urn:589518
CONTRIBUTORS: Steffen Illig; Philipp Rumpf; Johanna Staudinger

Source: Otto-Friedrich-Universität Bamberg

Data are asserted to the Employment, Education and the Works sections, adding a Trust marker

Source: https://orcid.org/0000-0002-5570-7746
PURE - ORCID connections at the Universitat Autònoma de Barcelona (Spain)

Maria Pilar Lopez Belbeze
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CREEDO Centre of Research and Education in Organizational and Business Studies
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Accepting PhD Students

Source: https://orcid.org/0000-0002-4302-3005

Data are asserted to the Employment, Education, Works, Websites and other IDs sections, adding a Trust marker
At a national level...
The Finnish CRIS, Research.fi, uses ORCID to facilitate metadata reusability

“ORCID iDs will play a central role here. In 2021, the service will introduce a dedicated ‘my data service’, which enables researchers to create their profiles in Research.fi by signing in with their ORCID accounts. To avoid ‘yet another profile to maintain’, no content will be entered or edited manually but will be transferred from existing sources”.

Source: https://info.orcid.org/the-new-finnish-research-information-hub-provides-a-comprehensive-view-of-finnish-research/
The Serbian CRIS, eNauka, strongly promotes ORCID authentication.

[https://nitra.gov.rs/lat/ministarstvo/vesti/srbija-je-clanica-orcid-a](https://nitra.gov.rs/lat/ministarstvo/vesti/srbija-je-clanica-orcid-a)
Our work doesn’t stop here
We keep working to support trustworthy connections between ORCID and (institutional and national) CRIS

- Continuous work with CRIS service providers
- Continuous work with national CRIS instances worldwide (Peruvian CRIS, Ukrainian CRIS, Norwegian CRIS...)
- Continuous support to custom CRIS solutions
Thank you very much
Muchas gracias
Eskerrik asko

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