TECHNICAL INTRODUCTION TO THE ORCID API

08 NOVEMBER 2018

GABRIELA MEJIAS

ORCID Connecting Research and Researchers

ORCID ENGAGEMENT LEAD – EUROPE G.MEJIAS@ORCID.ORG HTTPS://ORCID.ORG/0000-0002-1598-7181

ORCID.org

IMPLEMENTATIONS

INTEGRATING WITH THE ORCID API



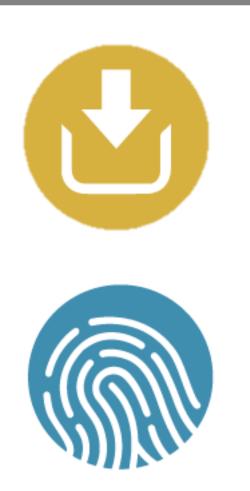
- PLAN
- DEVELOPE/ TEST

ENGAGING COMMUNITIES

• COMMUNICATE!



ORCID ENABLES



Organizations use the ORCID API to authenticate, collect, display, and connect persistent identifiers for people, places, and things in research workflows





PLAN

- Are you already using any of the <u>enabled systems that support</u> <u>ORCID?</u>
- Which system(s) would you like to connect to ORCID? Where does ORCID fit within your existing systems & workflows?
- What information do you want to obtain from/add to your researchers' records?
- What resources do you need? Who is the right people to involve?
- How to communicate your implementation?



1. ENABLED SYSTEMS

Publishing

- Open Journal Systems (PKP)
- Editorial Manager
- ScholarOne Manuscripts
- eJournalPress
- ReView

Repositories

- Eprints
- Fedora (Elements)
- Haplo

More in the future!

CRIS Systems

- DSpace CRIS
- Vivo
- Converis
- Digital Measures
- Elements
- Faculty180
- InfoEd
- IRMA
- Pure
- Haplo
- Worktribe

https://members.orcid.org/orcid-enabled-systems



2. CUSTOM INTEGRATIONS

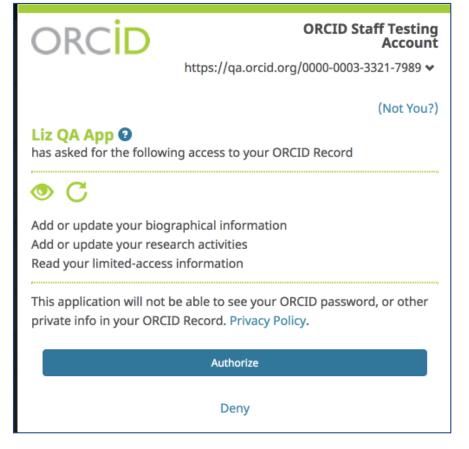
- Check our <u>technical documentation</u>
- Request <u>Sandbox</u> / <u>Production</u> credentials
- Decide how you will use the API and permissions needed
- Test & demonstrate your implementation

Case examples: https://members.orcid.org/resources Code examples: https://members.orcid.org/api/resources/codeexamples



RESPECT RESEARCHER CONSENT & PRIVACY

- AUTHENTICATION is quick, easy & accurate
- Request & obtain permission to read / write to the ORCID record (trusted parties)
- Sign in + Authorize> ORCID API pushes the iD to your system
- No manual entry!





GET PERMISSION

ORCID registry depends on user-based permissions: Can I...

- get your iD (/authenticate)
- read limited-access data on your record (/read-limited)
- interact with the activities on your record

(/activities/update) 🙀 🔃



interact with your biographical information



ORCID Staff Testing Account				
https://qa.orcid.org/0000-0003-3321-7989 😽				
(Not You?)				
Liz QA App ③ has asked for the following access to your ORCID Record				
O				
Add or update your biographical information Add or update your research activities Read your limited-access information				
This application will not be able to see your ORCID password, or other private info in your ORCID Record. Privacy Policy.				
Authorize				
Deny				

AUTHENTICATE

Authenticate ORCID iDs to ensure researchers are correctly identified in your systems



(Not You?)

State University O has asked for the following access to your ORCID Record

O C

Add or update your biographical information Add or update your research activities Read your limited-access information

This application will not be able to see your ORCID password, or other private info in your ORCID Record. Privacy Policy.

Authorize

Deny

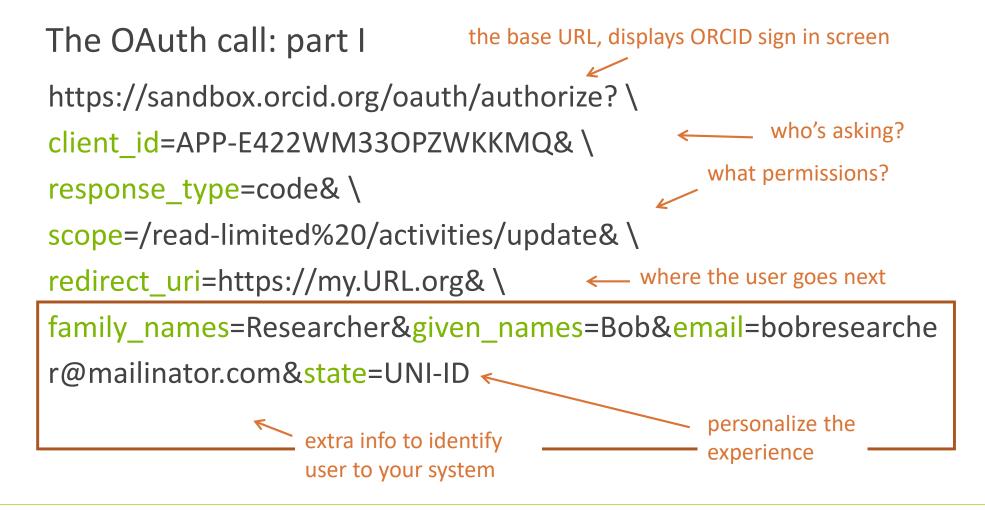


- Build authorization URL
- Exchange auth code for an access token
- Store the full token exchange
- Explain why you AUTHENTICATE iDs



https://orcid.org/content/collect-connect

STEP 1: AUTHORIZATION URL

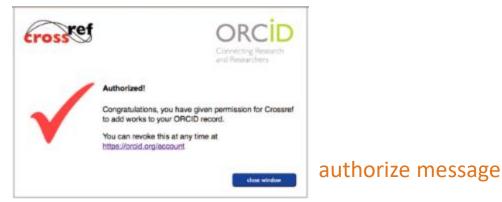


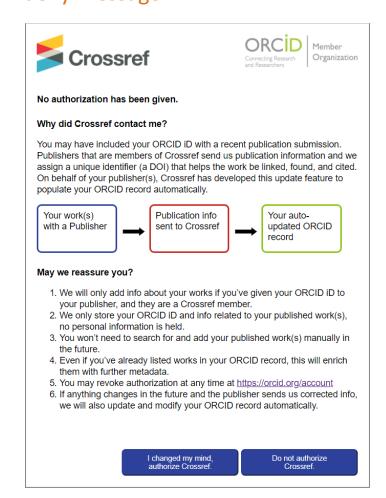


STEP 2: AUTH CODE & USER FEEDBACK

ORCID sends the user to your redirect, with a code (and any state parameter) appended to end https://my.URL.org?htA3yE&state=UNI-ID the auth code

- Save the code you need it for the next step
- Display something useful to the user
 - Authorize: thanks for your permission!
 - Deny: are you sure you don't want to give permission?







STEP 3A: TRANSFORM THE CODE INTO A TOKEN

Use the code to gain access using the ORCID API

https://sandbox.orcid.org/oauth/token

HEADER: accept:application/json

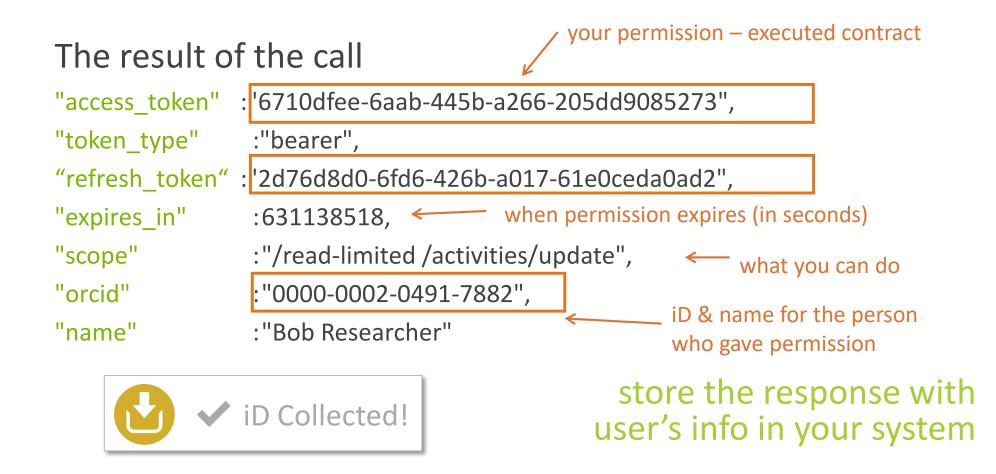
```
_____ what format?
```

URLs (RESTful)

DATA:



STEP 3B: STORE THE RESULT





DISPLAY

Display iDs to signal to researchers that your systems support the use of ORCID



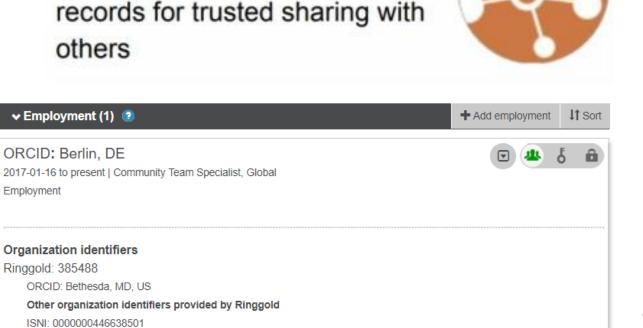
https://orcid.org/0000-0001-2345-6789

- Store and DISPLAY authenticated iDs following our guidelines
- DISPLAY the authenticated ORCID iDs in metadata
- Explain why you display iDs



CONNECT

Connect information to ORCID records for trusted sharing with



Preferred source

- CONNECT information from your system to ORCID records
 - Affiliations: Org. name & address. Recommended: start date & Org. ID
 - Works: Title, work type, work identifier
- Store put codes

¥ 💼 |

• Explain your system connections with ORCID and benefits to researchers



Source: ORCID

COLLECT

Collect information from ORCID records to fill forms and support research reporting



Researcher Database

Name

Sofia Maria Hernandez Garci

ORCID iD http://orcid.org/0000-000:

Method: GET

Accept: application/vnd.orcid+xml or application/vnd.orcid+json

Authorization type: Bearer

Access token: [Stored access token]

URL: https://api.sandbox.orcid.org/v2.1/[ORCID iD]/record

- COLLECT information from ORCID records, including Trusted Parties data
- Use the data to populate your system, online forms, etc.
- Explain why you collect ORCID information





- Make CONNECTions and COLLECTions over time using long-lasting permissions, updating information as it changes *webhooks*
- Provide a mechanism to accept and act on correction requests from ORCID users
- Explain the benefits for researchers of synchronization



ENGAGE & COMMUNICATE

- Use our outreach resources
- Link to our <u>Help page</u> & <u>video tutorials</u>
- Launch & let everybody know: email, social media, newsletter, etc.
- Regular updates & reminders
- Obtain & display your Collect & Connect badges
- ORCID cookies



UNCScholComm @UNCScholComm

Follow)

We have incredible ORCID cookies for the library staff ORCID Connect-A-Thon! Get your ORCID, learn about ORCID, get a cookie.





https://members.orcid.org/outreach-resources

NEW AFFILIATION TYPES!

✓ Education and qualifications (2) ②	+ Add qualification	+ Add education	11 Sort
Johns Hopkins University: MD, MD, US 2013-01 to 2013-11 Training certificate in Economic Development Qualification		•	δ 🖻
Source: Sofia García	C Preferred source		18
Universidade de São Paulo: Sao Paulo, SP, BR 2007 to 2012 PhD Sociology Education		•	6 â
Source: Sofia García	C Preferred source		18
✓ Invited positions and distinctions (1)	+ Add invited position	+ Add distinction	11 Sort
University of Cape Town: Rondebosch, ZA 2015-10-01 to 2016-10-01 Visiting Lecturer (Faculty of Humanities) Invited position		•	6 🖻
Source: Sofia García	C Preferred source	e	18
✓ Membership and service (1) 💿	+ Add service	+ Add membership	11 Sort
Japan Society of Home Economics: Tokyo, JP 2018 to present Service		•	6 â
Source: Sofia García	C Preferred source	e	10

- Qualifications
- Invited positions and Distinctions
- Membership and Service

Available in the UI

Looking for Beta testers! (API 3.0 rc1)



<u>https://github.com/ORCID/ORCID-Source/tree/master/orcid-model/src/main/resources/record 3.0 rc1</u> <u>https://orcid.org/blog/2018/10/09/new-feature-alert-upgraded-affiliation-types</u>

NEW – RESEARCH RESOURCES

✓ Research resources (1)

radAFM: Coupled radiation source/liquid-cell AFM to study radiation-induced interfacial processes Environmental Molecular Sciences Laboratory (Richland, WA, US) Joint Genome Institute (Walnut Creek, CA, US) 2017-07-01 to 2017-09-30 OTHER-ID: Project ID 118975 DOI: 10.25582/proj.2018.50416

Source: Environmental Molecular Sciences Laboratory (EMSL)

C Preferred source

- Infrastructure
- Collection
- Equipment
- Service

11 Sort

Join the pilot program! (API 3.0 rc1)



https://orcid.org/blog/2018/11/02/research-resources-live

THANK YOU!

Member Support Centre: Collect & Connect, resources <u>https://members.orcid.org</u>

API documentation, tutorials, sample workflows

https://members.orcid.org/api

API XSD, example calls and XML (Github)

https://git.io/vDRy0

ORCID API users listserv

https://groups.google.com/group/orcid-api-users

ORCID message (XSD) (Github)

https://git.io/vXw5w

Bootcamp: ORCID API (Searches, OAuth, create on demand)

https://orcid.github.io/niso-workshop-2017

Questions? https://support.orcid.org

