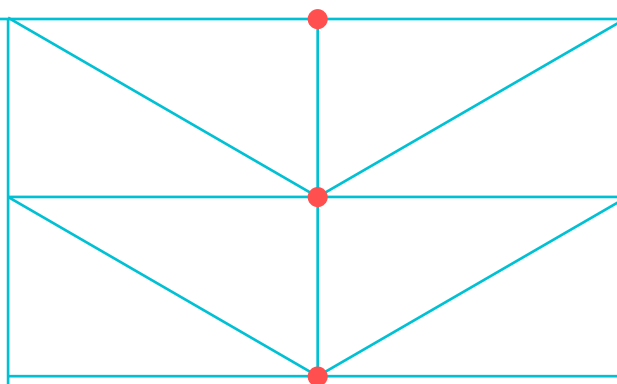
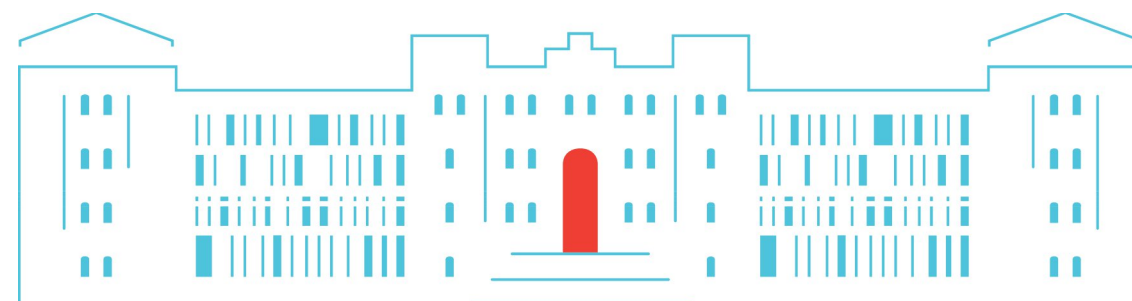


Improving the Login procedure to ORCID in DSpace(-CRIS) 7

TUHH
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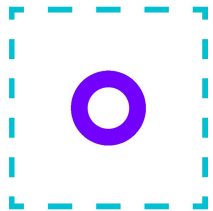
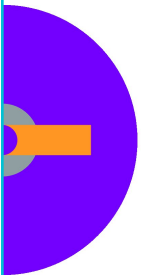
DOI [10.15480/882.4985](https://doi.org/10.15480/882.4985)

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Agenda

- DSpace and DSpace-CRIS
- TUHH and DSpace(-CRIS)
- ORCID Login (Project subject)
- Development partner 4Science
- Rough time plan



DSpace and DSpace-CRIS

- DSpace is a widely adopted repository software (currently over 3.100 known registered instances worldwide, many of them in Africa or South America)
- DSpace-CRIS is an extension to DSpace, which introduced CRIS capabilities (like entities) to generic DSpace
- DSpace-CRIS is developed by 4Science (located in Italy)



**„The Software of
Choice for Academic,
Non-profit &
Commercial
Organizations
Building Open Digital
Repositories“**

(<https://dspace.lyrasis.org/>)

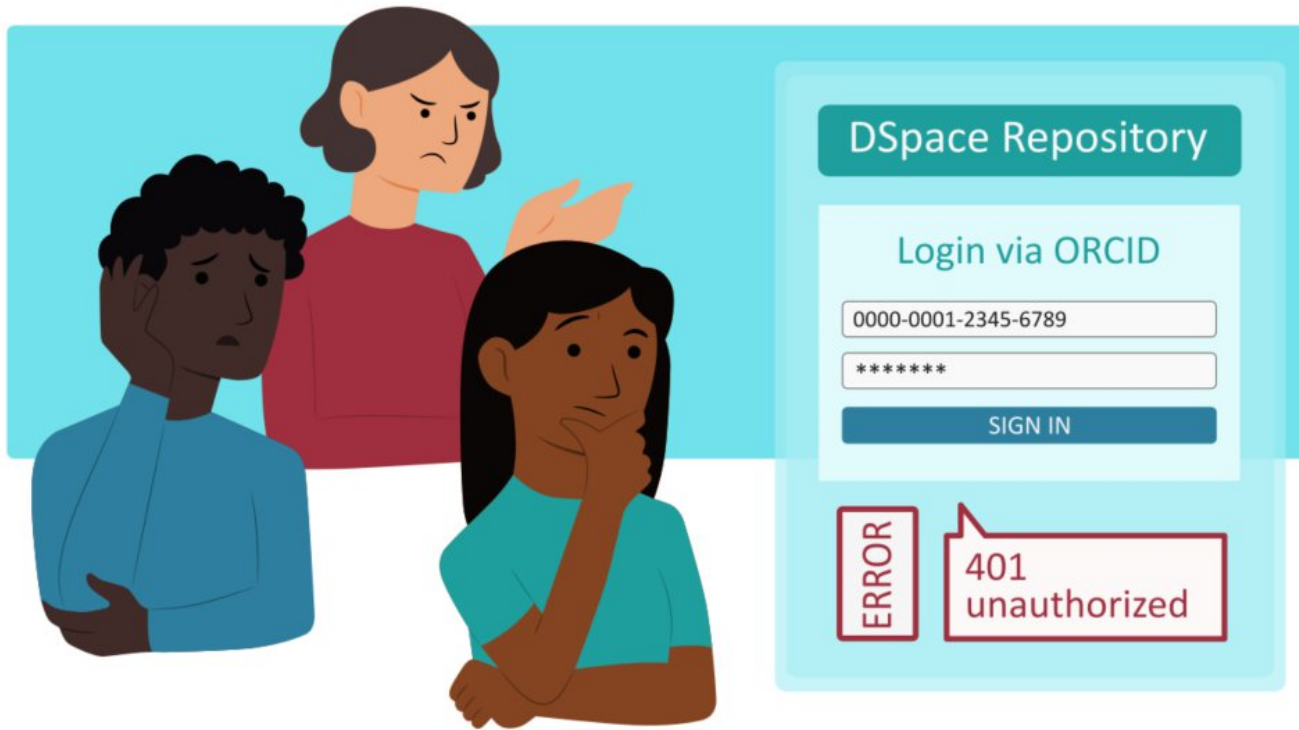


TUHH and DSpace (-CRIS)

- Hamburg University of Technology is located in Hamburg, Germany
- Using DSpace since 2015
- Using DSpace-CRIS since 2017
- Our instance of DSpace-CRIS is named TORE (TUHH Open Research)
- Changed to DSpace-CRIS, because it had a pretty complete ORCID integration
- Today: preparing to migrate to DSpace-CRIS 7

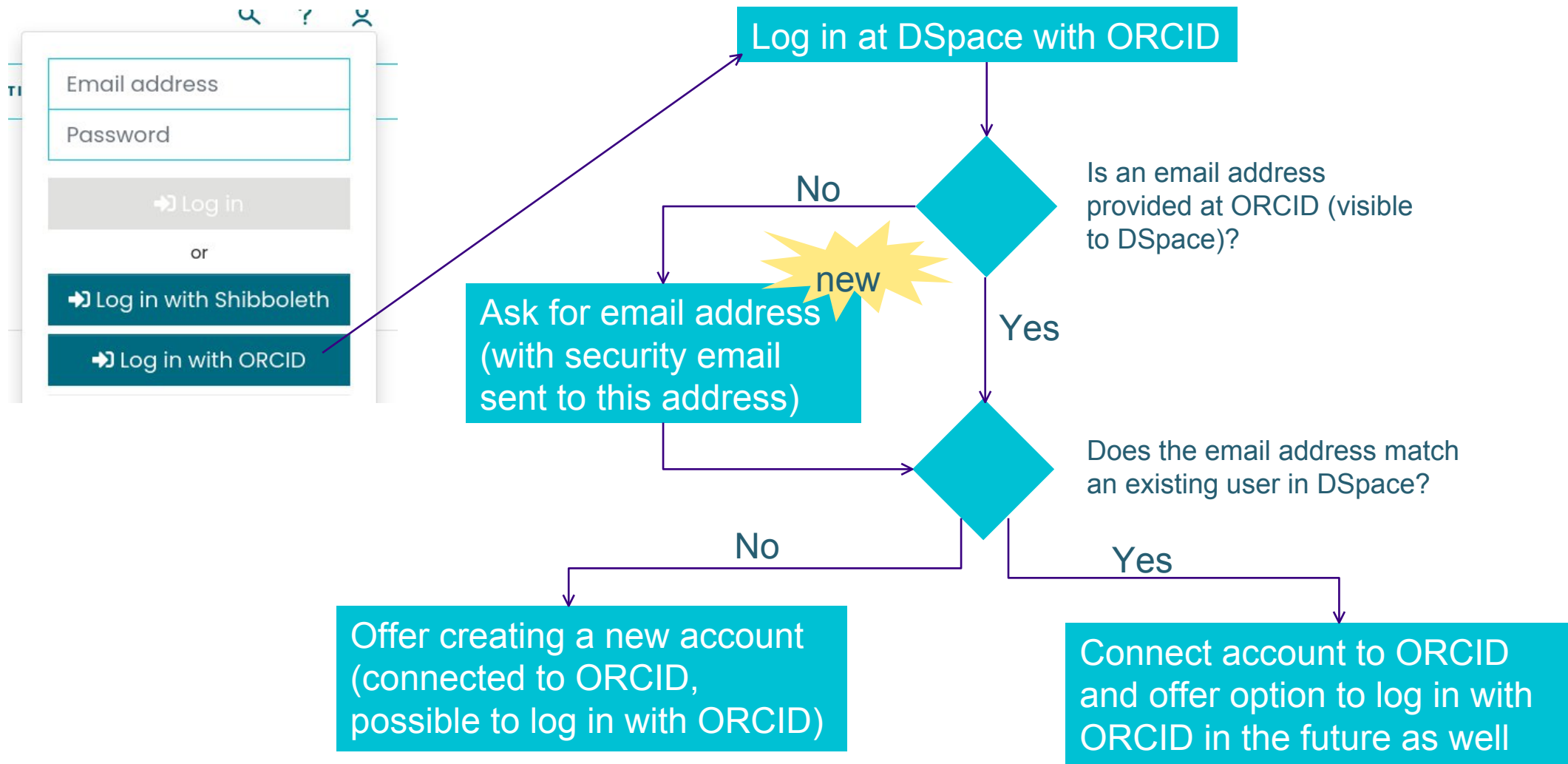


The problem



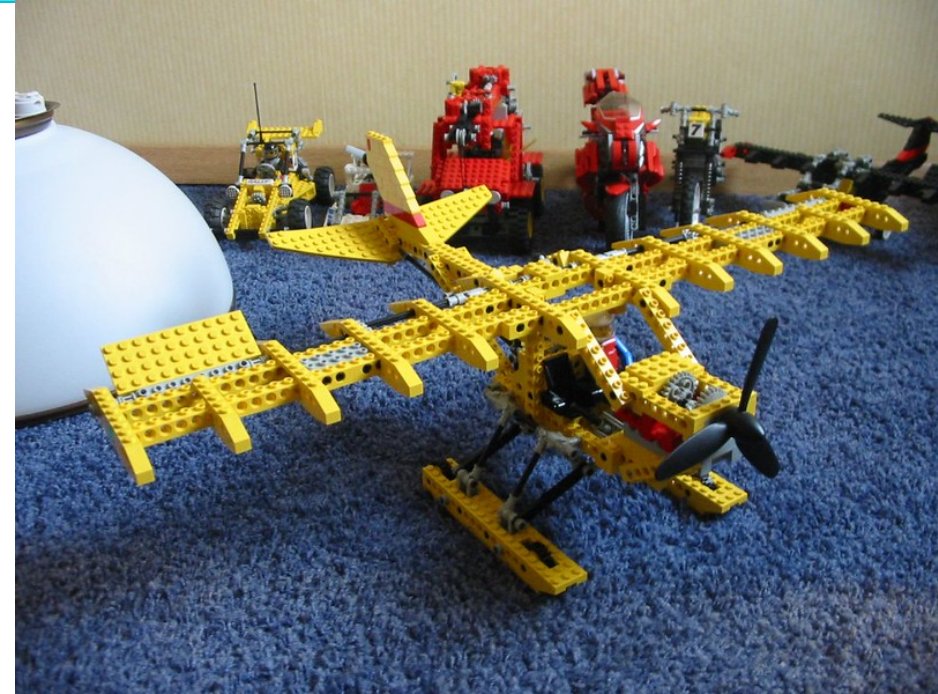
- Login via ORCID is unfriendly for new users and existing users that have not yet connected their existing account to ORCID
 - User has to have an eMail address on ORCID, which is identical to the eMail address on DSpace
 - eMail address on ORCID must be visible to at least trusted parties
- Limitations are neither clear nor well understood

Solution Proposal (Rough Flowchart, pretty early draft)



Technical Challenges

- Design and document the new endpoints and required changes for the ORCID login, the ORCID registration process and the new request linking feature
- Address security concerns to prevent hijacking of profiles or accounts
- Extend the ORCID authentication so that the authenticated ORCID (& the scopes and tokens) can be returned with meaningful “response codes” to deal with a subsequent email linking request
- Implement the REST API for the email linking request
- Implement the Angular page to ask for the email address and deal with the new email linking endpoint
- Extend the registration process so that the received ORCID information can be used to create a new account if the supplied email address is unknown



Development

- TUHH is cooperating with 4Science since around 2016 and they will do the implementation within this project
- 4Science will start developments in project context in April
- Maximum time for the project: 6 months
- Implementation covered by Tests (Unit Tests and Integration Tests)
- Will be released in DSpace-CRIS (next version after the end of the developments)
- The developments will be pushed to generic DSpace later (and can be reused by any DSpace user then)

4SCIENCE
Share your knowledge



Rough Timeplan for ORCID Login project

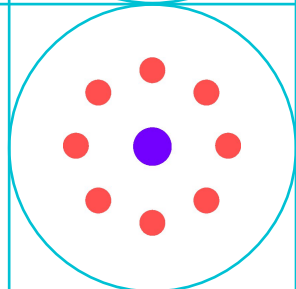
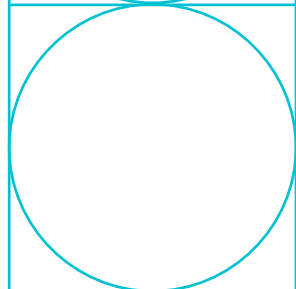
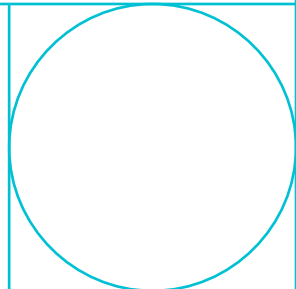
TUHH

ORCID Login project	
Feb 01 2023	Official project start
Feb 09 2023	Kickoff Meeting with ORCID and other grantees
Feb/Mar 2023	Contracting 4Science for the implementation work
Apr 01 2023	Project start for 4Science
Oct 01 2023	Finishing project implementation at 4Science Starting evaluation of project results (testing at TUHH)
Dec 31 2023	Finishing evaluation
Feb 2024	Project End presentation and report

Thank you!

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