Towards a CRIS-integrated solution for open access publishing workflows
Who we are

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01 Introduction

02 Initial situation

03 Creating a DSpace-CRIS connector

04 Final thoughts & Timeline
FAU - One of Germany’s Top 10 Research Universities

Founded in 1743

More than 3,600 members of academic staff

More than 2,300 employees in administration

624 Professors

More than 220 Mio. Euro Third-party funding.
More than 38,000 students in

267 degree programs, among them

81 Bachelor's degree programs and

94 Master's degree programs
Initial situation
Library Timeline

- **2011**
  - **OPUS 4**
    - Open access full text repository for first publications

- **2011**
  - **Open Access**
    - New university-wide Open Access Policy & Open Access Publication Fund

- **2016**
  - **Automation**
    - Automated import of secondary publications via DeepGreen

- **2017**
  - **DOI via DataCite**
    - FAU University Press uses DataCite to assign DOIs

- **2021**
  - **Open Science Policy**
    - New university guidelines for Open Science

- **2022+**
  - **DSpace 7**
    - Integration of university press workflows
CRIS Timeline

Start
Decision to use Converis as a CRIS

2011

Expansion
Addition of various other research output

2015

2016+

Automation
Automated import from Web of Science & Scopus

2018+

2019

2022+

Launch
Introduction of Publications and Projects

Workflows
Integration of administrative workflows and applications

DSpace connection
Integration of university press workflows

Current content: 125k publications, 9k research projects, 2k awards, ... - in total 1m datasets and 2.5m relations
CRIS Overview

Diagram:
- SAP (HR)
- Fau.org (Orga tree)
- IdM (Identity management)
- Data Integration Platform (DIP)
- LDAP
- Project imports (internal sources)
- Manual entry
- WoS, Scopus, Orcid, etc.
- File-Import (BibTeX, etc.)
- Reporting
- Research portal
- Wordpress-Plugin
- Internal Applications
- FAU CRIS
DIP is a service of our University Computing Centre (RRZE): An unidirectional data exchange platform.
Players involved

FAU CRIS
- Contains metadata for publications and other research output
- Relations between research output entities
- Automated imports for user data / research output
- Plugin for University Websites

Library
- Full text repository for OA and Secondary Publications
- Open Access information

University Computing Centre – RRZE
- DIP – unidirectional data exchange platform
- Grails infrastructure using MongoDB
Creating a DSpace-CRIS connector
Two starting points

Publications can enter the FAU research landscape either in CRIS or in DSpace.

-> Avoid double entries by users (saving their time) and make (some) fulltexts available on FAU websites.

Legal Issues of OA

Not all publication fulltexts can legally be made available. A process is needed to check this.

Evolving Systems

Both Converis and DSpace are systems that are being improved continually. We rely on a home-made connector system to avoid having to make changes in different systems when there are changes in the APIs, for example.
DSpace – CRIS Connector

CRIS to DSpace

CRIS Submission Process → CRIS API → DIP Storage of Metadata and Files → DSpace API

Sherpa Romeo API

Legal concerns?

Yes → Support Team

No → Upload Button → Accept Terms

DSpace Publication Dataset + fulltext

Concerns?

Yes → CRIS API

No → Upload Button → Accept Terms
DSpace – CRIS Connector

DSpace to CRIS

CRIS Publication Metadata

CRIS API

DIP Storage of Metadata and Files

DSpace API

DSpace Submission Process

Library Team checks data

Assign DOI

Fulltext Available in DSpace
DSpace – CRIS Connector

The complete picture

CRIS Submission Process → CRIS API → DIP Storage of Metadata and Files → DSpace API → DSpace Submission Process

CRIS Publication Metadata → Sherpa Romeo API → Legal concerns?

- Yes → Support Team
- No → Upload Button → Accept Terms

DIP Fulltext Available in DSpace

Library Team checks data → Assign DOI

DSpace Publication Dataset + fulltext
Final thoughts & Timeline
Milestones

Initial works
Generic CRIS – DIP Connector

2021

Mission start
We passed this already…

2022

CRIS -> DIP
Teach DIP to talk to CRIS API about publications

Q3 2022

DIP -> DSpace
Move publication metadata from DIP to DSpace

Q4 2022

Fulltext workflows
Fulltext available for CRIS users & beyond

Q1 2023

DSpace -> DIP -> CRIS
Full integration of university press publication workflow

Q3 2023
Questions?
Thank you for your attention!