

Normalization and Authority Control in a Repository Landscape

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Most scientific organizations have established bibliographic databases to collect and present the scholarly output generated by their researchers and research projects. Additional requirements arise from increasing OpenAccess requirements by funders more and more paired with direct data delivery (e.g. Horizon 2020). To alleviate the burden of administrative reporting JOIN² has broadened the scope of raditional OpenAccess repositories to include these additional, administrative data like funding, licencing, cost information (e.g. APC based Gold OpenAccess). Recent developments include DOI minting via DataCite and ORCiD integration.

However, to fulfil all the detailed requirements a very high level of normalization is required, traditionally not available in Dublin Core based repositories. Based on invenio and the much broader Marc21 meta data schema, JOIN² repositories implemented this normalization based on authority records right from the start. To this end JOIN² holds about 118.000 authority records used by and interchanged between all partners. About 72.000 of these refer to scientific journals that need to be updated once a year to reflect changes in statistical keys required for evaluation procedures. Currently operating seven independent, on site implementations in production, for JOIN² it is vitally important to implement a collaborative curation of these records and effective sharing mechanism to minimize the work for partners. For evaluation purposes, JOIN² is currently investigating the bibliographic subset of the upcoming national German evaluation schema Kerndatensatz Forschung (KDSF). Though, JOIN² was designed long before the discussion on this schema started, it turned out that almost all criteria can be met out of the box by means of JOIN2's authority control mechanisms, while trouble usually results from flaws in the KDSF

definitions and should be addressed there. Data delivery in CERIF formats may thus be a feature for future implementation. This poster will outline procedures for authority record generation and interchange between JOIN² partners as well as some usage scenarios implemented.

Generation of authority records databases (EZB/ZDB, OpenAire, LDAP & more)

ORCID integration incl. data upload to ORCID

A module exchanging information between the repository and ORCiD has been developed and runs on JuSER. Researchers can insert their ORCiDs into their personal authority records and push their publications from the repository to their ORCiD profiles:



Authorities

Search 134,729 records for:

- Narrow by collection: ☑ Grants (39,821)
- Experiments (215)
- ☑ Institutions (15) ✓ Institutes (496)
- People (22,565) [restricted] Periodicals (71,640)
- ☑ Publication types (39)
- Statistics keys (50)

Controlled vocabulary (118)

JOIN² common authority and normalization infrastructure based on the **MARC21** format

Heptagons from the Steinmann Cluster Bootstrap The record appears in these collection Private Collections > >DESY > >FH > T Document types > Reports > Reports Worldlow collections > Public records Worldlow collections > Publications databat

Information Usage statistics Files

DataCite integration

Distribution via OIA-PMH

- also usable for other projects known re-use by KIT Karlsruhe

	ISI + Scopus (POF3)	\$	WOS listed journal OR entry (POF2)	÷	All of WoS and Scopus listed	¢	Scopus listed	
110 - Energieeffizienz, Materialien und Ressourcen	1	EndNote Text EndNote XVIL RIS BIDTEX	1	EndNote Text EndNote XVIL RIS BIDTEX	1	EndNote Text EndNote XVII. RIS BIDTEX	1	E. B.
310 - Krebsforschung (POF III: 2014 - 2018)	<u>26</u>	EndNote Text EndNote XVIL RIS BIDTEX	<u>19</u>	EndNote Text EndNote XVIL RIS BIDTEX	<u>25</u>	EndiNote Text EndiNote XVIII RIS BIDTEX	<u>25</u>	EndN EndNo RIS BibTeX
610 - Materie und Universium (POF III: 2015 - 2019	146	EndNote Text EndNote XML RIS BIBTEX	138	EndNote Text EndNote XML RIS BIDTEX	146	EndNote Text EndNote XVIII RIS BIDTEX	146	EndNote Text EndNote XVII RIS BIDTEX
620 - Von Materie zu Materialien und Leben (POF II	141	EndNote Text EndNote XML RIS BIDTEX	<u>134</u>	EndNote Text EndNote XVIL RIS BIDTEX	139	EndNote Text EndNote XML RIS BIDTeX	137	EndiNote Text EndiNote XVIII RIS BIDTEX
630 - Materie und Technologie (POF III: 2015 - 201	<u>15</u>	EndNote Text EndNote XML RIS BIDTEX	14	EndNote Text EndNote XML RIS BIDTEX	<u>15</u>	EndNote Text EndNote XML RIS BIDTEX	<u>15</u>	EndNote Terr EndNote RIS P
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DESY PUBLICATION DATABASE

Export and data delivery format

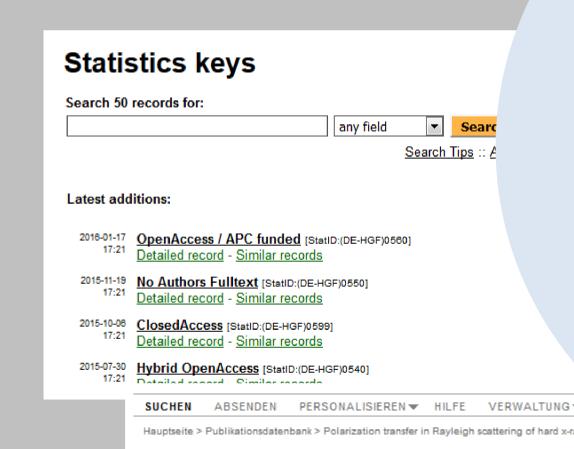
CERIF planned to implementation

Reporting for the Kerndatensatz Forschung or other CRIS projects

Reporting for evaluation via the **HGFstatistics** module

Status

Zahlung erfolgt



APC and other publication costs integration incl. OpenAPC

Date of invoice Invoice No. Man-ID Currency Cost centre Comment 2016-10-27

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GSI-2016-00102	Zahlung erfolgt	Page charges	1530	780 USD		RR3862/184 /00013	2015-12-25	2017-01-02		BIO		A Compariso of Kinetic Photon Cell

















