

Authority Control in Invenio

[sic!] Jülich – 2nd Invenio User Group Workshop

Jülich, 19. November 2013 | Alexander Wagner, for the Collaboration

Overview



- Why Authority Control?
- Requirements and HowTo
- Authority Records
- Websubmit implementation
- Lacking features

Why Authority Control?

JuSER and friends are the basis for

- Scientific reporting
- Evaluations / Bibliometrics (link up with WoS/Scopus/Inspire)
- Publication lists (e. g. on the WWW: institutes, people, projects)

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Example: History of an institutes name at Jülich

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Example: History of an institutes name at Jülich

- till 07/31/2002: ICG-4 (Erdöl und Geochemie)
- till 12/31/2006: ICG-IV (Agrosphäre)
- till 10/31/2010: ICG-4 (Agrosphäre)
- since: IBG-3 (Agrosphäre)

Agrosphäre (ICG-4)

ID I:(DE-Juel1)VDB793

→ ← Agrosphäre → ↑ ICG ↑ → Agrosphäre →

RECENT PUBLICATIONS

→ All known publications

Book

- Obersörster, C.
- **Hydrological characterization of a forest soil using Electrical Resistivity Tomography**
Schriften des Forschungszentrums Jülich. Reihe Energie und Umwelt / Energy and Environment **76**, XXI, 151 S. (2010)

Conference Presentation

- Rings, J. ; → Scherler, M. ; → Hauck, C.
- **Coupled thermal and geophysical modelling for monitoring of permafrost**
EGU General Assembly 2010
Vienna, 2010-05-02 (2010)

Conference Presentation

Why not knowledge bases?

- Amount of data (e. g. >30.000 journals, cf. Inspire: 3400)

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Librarians are comfortable with **MARC**, but not kb

Thus, routine work (e. g. typos, linkage. . .) can be handled by **librarians** and does not require a technician/programmer.

"Dirty" sets from migration need human intervention. . .

Our users – oh, there was something...

Example: What happens if you select a journal?

Say, starting out with a DOI, e. g. 10.1103/PhysRevB.87.081302

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From our **authorities** you get for free:

```
0247_ $2ISSN$a0163-1829
0247_ $2ISSN$a1095-3795
0247_ $2ISSN$a1550-235X
0247_ $2ISSN$a0556-2805
0247_ $2ISSN$a1098-0121
082__ $a530
260__ $aCollege Park, Md.$bAPS
773__ $0PERI:(DE-600)1473011-x$a10.1103/PhysRevB.87.081302...
915__ $0StatID:(DE-HGF)0100$2StatID$aJCR
915__ $0StatID:(DE-HGF)0200$2StatID$aDBCoverage$bSCOPUS
915__ $0StatID:(DE-HGF)0300$2StatID$aDBCoverage$bMedline
915__ $0StatID:(DE-HGF)0420$2StatID$aNationallizenz
915__ $0StatID:(DE-HGF)0110$2StatID$aWoS$bScience Citation Index
915__ ...
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Did you/your secretary know...

... e. g. that Phys. Rev. B is in Medline and has DDC 530?

For our queries

Authorities allows us to:

- find all publications in a given journal
- find all publications in journals listed in a given database
- find all publications in a given field
- **do the reporting:**
 - “What articles are in WoS or Scopus?” — “And Pubmed?”
 - “Which of our OpenAccess articles have an Impact Factor?”
 - “What did we publish in Nature, no not the Baby-Natures?”
- do quite unique queries (e. g. all OpenAccess Journals that have an Impact factor)

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But basically. . .

we get **better, more consistent data** without our users need to enter them manually each time.

Authority Records: Requirements

- 1 **n:m relations** (e. g. splitting of institutes, grants with several top levels)
- 2 **Tracking history** (predecessors and successors)
- 3 **Tracking hierarchy** (dad/son relations; we could have several parents!)
- 4 **Several identifiers** (e. g. DOI + Handle + URN or ORCID + other IDs)
- 5 **Multiple types of authorities** (e. g. people, grants, institutes, journals. . .)

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- 5 **ignorant of the type but specify source** (usually: \$0 or \$a and \$2 subfields)

Where to use?

- **Author disambiguation** (ready for ORCID)
- **Institutes** (history and hierarchy)
- **Grants** (history and hierarchy, also: several sources)
- **Journals** (though bibliographic by their nature)
- **Statistic Keys** (e. g. "has impact factor", "is listed in pubmed", "is OpenAccess")
- **Vocabulary** (e. g. level within a hierarchy)
- **Licence information** (e. g. CC-BY)
- . . . (Due to its flexibility we can adopt easily for new use cases)

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Define:

- **MARC datasets** (automatize creation, or manually)
- **output formats** (HD, HB, JS = JSON)

Authority Records HowTo

Looks (almost) like MARC bibliographic:

```
001__ 98676
1101_ $aAgrosphäre$y-31.10.2010
4101_ $wd$aICG-4
500__ $aRecord converted from VDB: 14.11.2012
909CD $ooai:juser.fz-juelich.de:98676$pauthority
970__ $aI:(DE-Juel1)VDB793
980__ $aI
980__ $aAUTHORITY
```


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```

- Add identifier(s): (Note: *(DE-Juel1)* allows for interchange)

```
0247_ $aI:(DE-Juel1)VDB793$2I:(DE-Juel1)
0247_ $a2128/25$2Handle
035__ $aI:(DE-Juel1)VDB793
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```

- Add horizontal and vertical links:

```
5101_ $wa$I:(DE-Juel1)VDB50$I:(DE-Juel1)$aAgrosphäre
5101_ $wb$I:(DE-Juel1)IBG-3-20101118$I:(DE-Juel1)$aAgrosphäre
5101_ $wt$I:(DE-Juel1)VDB1109$I:(DE-Juel1)$aICG
```

(see also Library of Congress)

And Websubmit?

JSON output formats for Ajax/JavaScript

Note: we use MARC tags – ambiguous “human readable names” are not helpful. . .

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- Institutes

```
{ "I9201_0" : "I:(DE-Juel1)VDB793",  
  "I9201_1" : "Agrosphäre",  
  "I9201_k" : "ICG-4",  
  "I980__a" : "I:(DE-Juel1)VDB793",  
  "label" : "ICG-4: Agrosphäre" }
```

And Websubmit?

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{ "I9201_0" : "I:(DE-Juel1)VDB793",
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  "I980__a" : "I:(DE-Juel1)VDB793",
  "label" : "ICG-4: Agrosphäre" }
```

- Journals

```
{ "I773__t" : "Physical review / D",
  "I773__0" : "PERI:(DE-600)1461167-3",
  "I773__x" : "1089-4918",
  "I082__a" : "530",
  "I260__a" : "New York, NY",
  "I260__b" : "Soc.",
  "I915__" : "[{<stat keys dict 1>}, {<stat keys dict 2>}...]"}

"label" : "Physical review / D (1089-4918)" }
```

Sidenote: OpenAire is just the same...

OpenAire = EU Funding:

```
{ "I536__O": "G:(EU-Grant)269921",
  "I536__a": "BRAINSCALES - Brain-inspired multiscale computation in neuromorphic
hybrid systems (269921)",
  "I536__c": "269921",
  "I536__f": "FP7-ICT-2009-6",
  "I9131_0": "G:(EU-Grant)269921",
  "I9131_a": "DE-HGF",
  "I9131_v": "Brain-inspired multiscale computation in neuromorphic hybrid
systems",
  "label": "BRAINSCALES - Brain-inspired multiscale computation in neuromorphic
hybrid systems (2010-12-31 - 2014-12-31)" },
```

Local funding scheme (POF):

```
{ "I536__O": "G:(DE-HGF)POF2-111",
  "I536__a": "111 - Thin Film Photovoltaics (POF2-111)",
  "I536__c": "POF2-111",
  "I536__f": "POF II",
  "I9131_0": "G:(DE-HGF)POF2-111",
  "I9131_1": "G:(DE-HGF)POF2-110",
  "I9131_2": "G:(DE-HGF)POF2-100",
  "I9131_a": "DE-HGF",
  "I9131_b": "Energie",
  "I9131_l": "Erneuerbare Energien",
  "I9131_v": "Thin Film Photovoltaics",

  "label": "111 - Thin Film Photovoltaics (POF II: 2010 - 2014)" },
```

How does it look like?

Author(s) ⓘ			⊞
Drexler, Ei (Extern) Corresponding author	✓	⊞	⊞
Voss, B (Extern) Author	✓	⊞	⊞
Amunts, K -> Amunts, K. [P:(DE-Juel1)VDB26] Author	✓	⊞	⊞
Schneider, F -> Schneider, Florian (: f.schneider@fz-juelich.de / JCNS-FRM-II) Author	✓	⊞	⊞
Habel, U -> Habel, U. [P:(DE-Juel1)VDB525] Author	✓	⊞	⊞

How does it look like?

Author(s) ⓘ

Drexler, Ei (Extern) Corresponding author	✓	✕
Voss, B (Extern) Author	✓	✕
Amunts, K -> Amunts, K. [P:(DE-Juel1)VDB26] Author	✓	✕
Schneider, F -> Schneider, Florian (: f.schneider@fz-juelich.de / JCNS-FRM-II) Author	✓	✕
Habel, U -> Habel, U. [P:(DE-Juel1)VDB525] Author	✓	✕

Edit author: ⓘ

Author

Edit Author:

Amunts, K

Amunts, K (Extern)

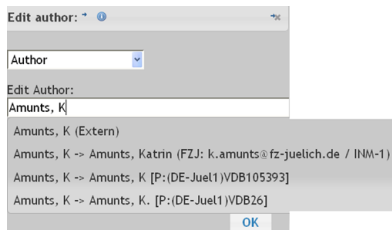
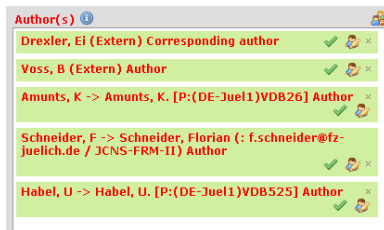
Amunts, K -> Amunts, Katrin (FZJ: k.amunts@fz-juelich.de / INM-1)

Amunts, K -> Amunts, K [P:(DE-Juel1)VDB105393]

Amunts, K -> Amunts, K. [P:(DE-Juel1)VDB26]

OK

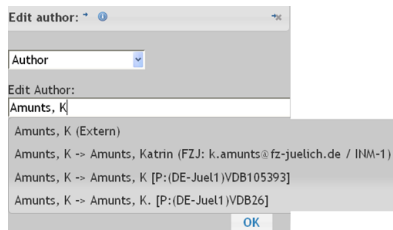
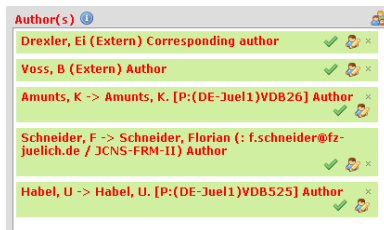
How does it look like?



Backend:

- http-queries requesting &of=JS (Invenio is fast enough!)

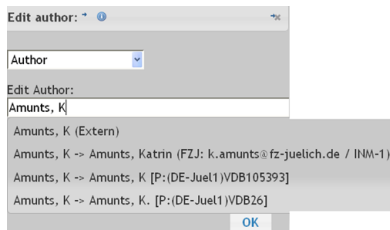
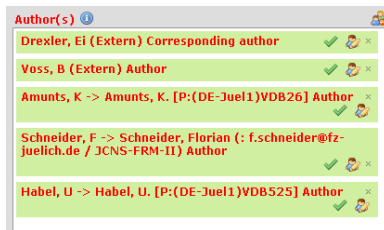
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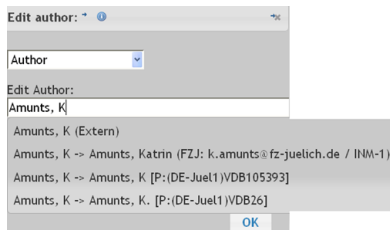
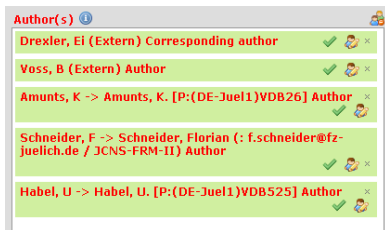
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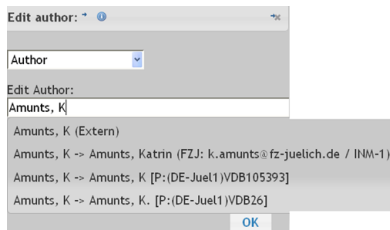
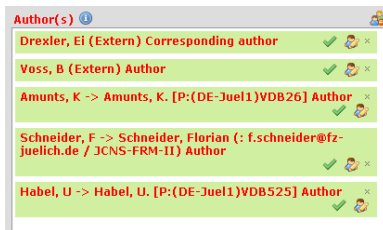
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- sometimes pythonic helpers (if it gets complex: author guessing, recursions...)

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 - with children/tops
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 - noexp parameter to search without explosion

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```
001__ 95749
0247_ $aP:(DE-Juel1)133832$2P:(DE-Juel1)
0247_ $a0000-0001-9846-5516$2ORCID
0247_ $aI-3159-2013$2ResearcherID
035__ $aP:(DE-Juel1)133832
1001_ $aWagner, Alexander$gmale
...
750_7 $0V:(DE-HGF)8$2HGFVOC$aAuthorized$d2013-11-09
980__ $aP
980__ $aAUTHORITY
```


Lacking features

- Authority-based searches
 - with children/tops
 - with predecessors/successors
 - noexp parameter to search without explosion
- Handle multiple IDs


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- Lookup IDs for searches (e. g. insert "IBG-3", get ID search for cid:"<ID>")

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- Lookup IDs for searches (e. g. insert "IBG-3", get ID search for cid:"<ID>")

Basically, search functionality is lacking to get the most out of it

Current work arrounds

- **Predecessors:**

Add all previous IDs to a certain MARC-field (e. g. 920 + 981) and search in an index (e. g. cid) that collects these fields.

- **Statistics:**

Use keys for search and in case loop. Works, but might be time consuming.

- **Introduction of ORCiD:**

Probably need to write several Ids for one author, as personal publication lists are based on current Ids.

Hopefully, all this is solved by upcoming authority search.

Thanks!



Alexander Wagner
Zentralbibliothek

Scientific Services /
Scientific Publishing

Tel.: +49-2461-61-1586
a.wagner@fz-juelich.de

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