Hello CRIS, can a Library Software solution help you?

Rudi Baccarne
Overview

• Anet, Brocade and Institutional Repository university of Antwerp
• CRIS, repositories and library systems
  • Organisational challenges
  • Technical challenges
Anet

- Library automation team University of Antwerp
- Network of 28 scientific libraries using Brocade
  - Universities
  - University colleges
  - Museums
  - Archival institutions
  - Documentation centres
Brocade

• Since 1998
• A fully integrated web-based Library Information Management System
• Developed by the University of Antwerp

Brocade Library Services

- **Original author(s):** University of Antwerp
- **Developer(s):** University of Antwerp, CiBLiS
- **Initial release:** 1 January 2000; 18 years ago
- **Stable release:** 4.30 / January 2018; 5 months ago
- **Written in:** Python, MUMPS
- **Operating system:** Server: Linux, Sun Solaris
  Client: Operating system independent (web application)
- **Available in:** Dutch, French, English, ... see Features
- **Type:** Library and Information science software
- **Licence:** Proprietary Commercial software
Brocade

- A suite of applications tailored to the needs of libraries, documentation centres and archival institutions
- Easily to extend with features that support needs and services that go beyond the standard services of a library management software (IR’s and CRIS)

- Cataloguing
- Authority Control and Thesaurus management
- Circulation and patron management
- Acquisition and subscription control
- Electronic Resource Management (ERM)
- Public catalogue
- Institutional repository
- MyLibrary
- Digital platform
- Archival descriptions
- Helpdesk and Infodesk
From academic bibliography to institutional repository/CRIS

1991-2008
• As of 1991 responsibility of university library
• VUBIS software – limited functionality
• Published as book until 1999
• Published as html since 1995
• Limited set of metadata
  Year, title, author (authority record), language, journal, collation, generic publication types
  No bibliographic numbers, no affiliations, ...
Sample VUBIS record

1. year: 1998
2. type: A
3. language: E
4. title: Arylene alkenylenes as chemiresistors in an electronic nose
5. author: authority: 16878.1[Vanneste, E.] functie:
6. author: authority: 8098.1[Wit, de, M.] functie:
7. author: authority: 16886.1[Eyckmans, K.] functie:
8. author: authority: 412.2[Geise, H.J.] functie:
9. Corporatie:
11. Annota:
12. location mark:
From academic bibliography to institutional repository/CRIS

2008
• Conversion VUBIS records to Brocade
• Enrichment metadata
• Improvement of HTML pages
• Advanced reporting and export tools
• Synchronisation with Dspace repository

2012
• Automated refinement of classification types
• Helpdesk workflow

2013
• Dspace repository replaced by Brocade repository
• Automated import Web of Science publications
From academic bibliography to institutional repository/CRIS

2014
• Open Access policy
• Integrating Bibliometric data (BOF weights, Impact Factors, Citations)
• API Web of Science to retrieve citations, doi, ...

2016
• OpenAire compliancy ~ project data
• Precise allocation research groups to publications

2017
• Search Engine Optimization
• CERIF compliancy

2018
• ORCID
Institutional repository: facts & figures

- 130,000 publications
- 6500 researchers
- 17,000 projects
- 400 organisations

[Pie chart showing the distribution of publications by type, with the following percentages: Articles - 57%, Chapters - 16%, Books - 6%, Proceedings - 6%, Book reviews - 6%, Minutes and reports - 4%, Doctoral theses - 2%, Newspaper/magazine article - 2%, Other - 1%]
Institutional repository: facts & figures

Amount of publications per year

- **2008**: 339 (Open Access), 1477 (Fulltext), 1585 (Total)
- **2009**: 425 (Open Access), 425 (Fulltext), 500 (Total)
- **2010**: 483 (Open Access), 483 (Fulltext), 556 (Total)
- **2011**: 589 (Open Access), 2719 (Fulltext), 3308 (Total)
- **2012**: 741 (Open Access), 2586 (Fulltext), 3327 (Total)
- **2013**: 1050 (Open Access), 3062 (Fulltext), 4112 (Total)
- **2014**: 3538 (Open Access), 3538 (Fulltext), 7076 (Total)
- **2015**: 1969 (Open Access), 4422 (Fulltext), 6391 (Total)
- **2016**: 2038 (Open Access), 4244 (Fulltext), 6282 (Total)
- **2017**: 1786 (Open Access), 421 (Fulltext), 5586 (Total)
Organisational challenges

- Legal framework
- In support of stakeholders
- Capture once, reuse often: in collaboration with other departments

  - Researcher profiles imported from HR database
  - Projects imported from research database
  - Affiliations imported from research database

Linked by identifiers

Updated daily or weekly
Legal framework

- Rules and regulations
  - Commission Academic Bibliography
  - Advisory role towards Research Council
- Maintenance is responsibility of university library
  - In narrow collaboration with research department
  - Metadata registration and quality control
  - Technical maintenance: keep up to date with repository technology, standards and protocols
  - Monitoring open access policy
Policy instrument

- Fully integrated with e-cv
  - Used for promotions, evaluations and internal funding
- Source for external reports
  - Important for governmental funding
  - VABB (www.ecoom.be/vabb)
  - Annual reports
- Export
  - FWO-MODS, VABB-MODS
  - ORCID
  - Reference management tools (RIS and COINS)
  - OAI-PMH (OpenAire, Base, ...)
  - CERIF-XML
Corthouts, Jan (41)

Beperk overzicht tot
- Alle publicaties (41)
- Publikaties met UAntwerpen adres (37)

Jaar [Van] [To] [Tot] Toon resultaten

Deze auteur behoort tot faculteit
- Administratieve diensten

Een publicaties voor volgende jaren

|------|------|------|------|------|------|------|------|------|------|------|

H2 Hoofdstuk in een boek

Discovery services
Corthouts Jan
Wegwijzer voor bibliotheken en documentatiecentra / Storms, Marc [edit.]; Broeck, van den, Peter [edit.]; Bruyne, de, Denis [edit.]. - ISSN 1783-5453 - 2016, p. 42:60-42:76 [cimati40073]

A2 Tijdschriftartikel

Brocade, 15 jaar
Corthouts Jan, Philips Richard, Noordemaar Trudi, Hendrickx Julie [medewerker]

2016

2015

2014
### Project info

### Publication type
A1 Journal article

### Subject
Biology

### Affiliation
Publications with a UAntwerp address

### External links
- View record in Web of Science®
- View citing articles in Web of Science®
- View Related Records® in Web of Science®

### Record
- **Identification**: c:irua:125751
- **Creation**: 26.05.2015
- **Last edited**: 11.06.2018
- **To cite this reference**: [http://hdl.handle.net/10067/1257510151162165141](http://hdl.handle.net/10067/1257510151162165141)
In support of research groups

- Daily xml import of university organigram
- Staff and affiliation id’s used for linking groups and publications
- Translated to browse interface for repository
  - Alphabetically
  - Hierarchical
- Overview and counting of publications
Faculty of Pharmaceutical, Biomedical and Veterinary Sciences

- Department of Biomedical Sciences
  - Bio-Imaging lab
  - Cognitive Genetics (COGNET)
  - Human molecular genetics
  - Laboratory for Microbiology, Parasitology and Hygiene
  - Medical genetics of obesity and skeletal disorders (MGI)
  - Molecular biophysics, physiology and pharmacology
  - Neurochemistry and behaviour
  - Pathophysiology
  - Peripheral Neuropathies Group
  - Proteinchemistry, proteomics and epigenetic signalling
  - Theoretical neurobiology
  - VIB CMN - Molecular Neurogenomics
  - VIB CMN - Neurodegenerative Brain Diseases Group
  - VIB CMN - Neurogenetics Group
  - VIB CMN - Translational Neurobiology

- Department of Pharmaceutical Sciences
  - Laboratory of Pharmaceutical Technology and Biopharr
  - Medical Biochemistry
  - Medicinal Chemistry (UAMC)
  - Natural Products and Food - Research and Analysis (Nis)
  - Physiopharmacology (PHYSPHAR)
  - Toxicological Centre

- Department of Veterinary Sciences
  - Applied veterinary morphology
  - Laboratory of cell biology and histology
  - Veterinary physiology and biochemistry

Faculty of Science
- Department of Bioengineering
|----------------------------------|--------------------------|-------------------------|----------------------|-------------------|---------------------|---------------------|---------------|----------------------------|---------------------|------------------------|
| **Publication Title**            | **The auxin-regulated CrRLK1L kinase ERULUS controls cell wall composition during root hair tip growth**  
Full text (Publisher's DOI): https://doi.org/10.1016/J.CUB.2018.01.050
|                                 | **Bypassing border control: nuclear envelope rupture in disease**  
Houthesve Gaëlle, Robijns Joke, Braeckmans Kevin, De Vos Winnok  
Full text (Publisher's DOI): https://doi.org/10.1152/PHYSIOL.00029.2017
|                                 | **Cytoprotective effects of transgenic neuroglobin overexpression in an acute and chronic mouse model of ischemic heart disease**  
Luyckx Evi, Everaert Bert, Van der Veken Bieke, Van Leuven Wendy, Timmermans Jean-Pierre, Vrints Christiaan, De Meyer Guido, Martinet Wim, Dewilde Sylvia  
Heart and vessels - ISSN 0910-8327 - 33:1(2018), p. 80-88  
Full text (Publisher's DOI): https://doi.org/10.1007/S00380-017-1065-5
|                                 | **Double trouble: a case series on concomitant genetic aberrations in NSCLC**  
Van Der Steen Nele, Mentens Yves, Ramael Marc, Leon Leticia G., Germonpré Paul, Ferri Jose, Gandara David R., Giovannetti Elisa, Peters Godefrius J., Pauwels Patrick, Rolf Christian  
Clinical lung cancer - ISSN 1525-7304 - Dallas, Cig media group, 19:1(2018), p. 35-41  
Full text (Publisher's DOI): https://doi.org/10.1016/J.CLLC.2017.06.010

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More
Technical challenges

• Search Engine Optimisation
• CERIF export
  • For Human Resource department
  • For Flemish Research department
Cerif export

- Added in Brocade in 2017
- Driven by meta-information
- IR module extended with CRIS entities
- Cerif export profiles
- Cerif export generators
- Cerif translation tables
### Translation schemas

### Translation tables

### Compare translation tables

### Administration of cataloguing import profiles

### Administration of cataloguing MARC export profiles

### Administration of cataloguing Cerif export profiles

### Administration of the cataloguing of export generators

### Management of patron import profiles

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<tr>
<td>ua</td>
<td>Export generator t.b.v. IT UA</td>
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GENERAL

Translate Brocade codes according to the schedule
fris

Export publication data

Export project data

Export organisations

Export personal data

Default cflangcode en

Different root tag fris:CERIF

Different root attributes

Keywords are based on authority type

Replacement tags for different tags
CERIF=CERIFfris
cfResPubl=fris:cfResPubl
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- `a:pt.10:1` JOURNAL = Journal Article
- `a:pt.18:1` JOURNALONLY = e-pub
- `a:pt.113:1` = Chapter
- `a:pt.113:1EONLY` = BC e-pub
- `a:pt.114:1` = Chapter
- `a:pt.114:1EONLY` = BC e-pub
- `a:pt.115:1` = Letter to Editor
- `a:pt.116:1` = Letter to Editor
- `a:pt.117:1` = Book
- `a:pt.117:1EONLY` = Book e-pub
- `a:pt.118:1` = Book
- `a:pt.118:1EONLY` = Book e-pub
- `a:pt.119:1` = Book
- `a:pt.119:1EONLY` = Book e-pub
- `a:pt.120:1` = Patent
- `a:pt.120:1` = Book
- `a:pt.121:1` = Journal Article
- `a:pt.121:1EONLY` = e-pub
- `a:pt.122:1` = Journal Article
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