

Invenio User Group Workshop 2019



Report of Contributions

Contribution ID: 5

Type: **not specified**

2 repositories in the NTK, Prague

Monday, June 10, 2019 9:30 AM (15 minutes)

The National Library of Technology (NTK) runs two invenio repositories - National Repository of Grey Literature (NUSL; v1.1.2) and institutional repository of NTK (IDR; v1.0.0). The repositories have partly same typology and data models. We have just started on works on upgrade and creating new data model. For now we are discovering which parts are missing and we still need to keep them as e.g. collections and we try to figure out the best and the easiest solution for our repositories what includes revision of whole concept and their functionalities.

Primary author: ČERNOHLÁVKOVÁ, Petra (National Library of Technology, Prague)

Presenter: ČERNOHLÁVKOVÁ, Petra (National Library of Technology, Prague)

Session Classification: Invenio User Group Workshop

Contribution ID: 6

Type: **not specified**

WEKO3: an Invenio 3 based Institutional Repository Software - current development status and future plan

Monday, June 10, 2019 9:15 AM (15 minutes)

“JAIRO Cloud” has been provided as the shared repository service in Japan since 2012 by National Institute of Informatics. In April 2019, the number of institutional repositories in Japanese universities based on JAIRO Cloud is exceeded 558, which covers 70% of the number of institutional repositories in Japan. Nowadays, it has become to be widely recognized as the institutional repository infrastructure in Japan.

JAIRO Cloud is built using a repository software “WEKO” developed from scratch by National Institute of Informatics. First version of WEKO is released in 2008. WEKO has been developed as a content management module and is characterized by its ease of use and ease of customization. It has been being developed while reflecting actual user voices of JAIRO Cloud.

On other hand, With the rise of the open science movement in recent years, the content handled by repository software is becoming more diverse and bigger than before. As a result, WEKO has been required scalability and extensibility for supporting diversity of research data. However, WEKO built on traditional WEB architectures, had difficulty supporting the requirement. We needed to develop a new generation of WEKO. Therefore, we compared major open source repository software such as DSpace, EPrints and Fedora and chose Invenio version 3 for our purpose and started development of new version of WEKO (hereinafter called WEKO3).

In this presentation, we will briefly introduce our background, and introduce the functions, features, problems, and future plans of WEKO3 under development.

Primary author: HAYASHI, Masaharu (National Institute of Informatics, Japan)

Co-author: Dr KAZUTSUNA, Yamaji (National Institute of Informatics, Japan)

Presenter: HAYASHI, Masaharu (National Institute of Informatics, Japan)

Session Classification: Invenio User Group Workshop

Contribution ID: 7

Type: **not specified**

Invenio at TIND

TIND was started in 2013 as an official CERN spin-off providing Invenio as a service, now serving customers such as UC Berkeley, Caltech, Columbia and the United Nations. Over the past years, TIND has heavily developed on the Invenio framework, including the implementation of many new technologies and standards (e.g. Elasticsearch, IIIF) as well as developing small and large modules completely from scratch. Based on these developments, the Invenio framework has been packaged into four different ‘products’ or ‘applications’ offered by TIND. These packages offer streamlined functionalities presented in a nice user interface on top of the flexible Invenio digital library framework:

TIND Institutional Repository: using many of the basic Invenio modules, enhanced with many improvements to the WebSubmit module (approval workflow, authority lookup).

TIND Integrated Library System: based on the BibCirculation module, enhanced with several new modules such as modules for Acquisitions, Serials Management, Loan Rules.

TIND Digital Archive: heavily based around IIIF and image streaming in combination with traditional Invenio curation modules.

TIND Research Data Management: based on the Invenio 3 framework, enhanced with a self-developed submission workflow, file management and DOI minting.

This presentation will explain how TIND has worked with and developed on the Invenio framework. We will highlight and demonstrate some of the technologies and modules that TIND has developed over the past years, as well as demonstrate selected customer implementations. Furthermore, we will also give insights into building an infrastructure for deploying and maintaining Invenio as a service for +30 customers (using tools and services such as AWS, docker, Sentry, Grafana).

Primary author: BJØRKØY, Audun (TIND)

Presenter: BJØRKØY, Audun (TIND)

Session Classification: Invenio User Group Workshop

Contribution ID: 8

Type: **not specified**

Call for participation to implement a MARC flavor model into INVENIO 3

Monday, June 10, 2019 10:15 AM (15 minutes)

Currently, JOIN2 uses INVENIO 1.1.7 as base software. JOIN2 is implemented at eight instances and is in use

- as a repository
- as an integrated library system (ILS)
- as a current research information system (CRIS)
- as Article Processing Charges (APC) handling system
- and for Campus literature management (private collection)

INVENIO 1.x was preferred over the other systems on the market thanks to its flexibility and general (internal) standardized data model which enables JOIN2 to tackle its broad scope of needs and allows the required easy extensibility. In particular, the huge potential of the implementation of Authority control unearthed entirely new use cases without any major rewrite.

Among the principal characteristics that led to the selection INVENIO 1.x over its competitors: A library system does not allow users to store their private data. CRIS systems are usually not usable as a repository. APC management is not really implemented in either of these.

Given the library background of the JOIN2 members, the MARC-21 data model of INVENIO 1, even with its imperfections, marked a key point in the system selection.

Using the MARC-21 standard as internal format is in our opinion a good basis for our transition to INVENIO 3 and provides a good link between the different functionalities and use cases:

Using MARC-21-Authority based records allows JOIN2 to identify people, grants, experiments, facilities, affiliations and funding information using interchangeable, shared records. Additionally, a shared set of journal records was derived and is maintained. This set profits from the MARC-21 format, which allows reuse and enrichment of data obtained from other library systems using common MARC-21 and RDA concepts. The resulting data can be reused even outside of JOIN2. Adding MARC-21 Holdings enabled JOIN2 to almost seamlessly integrate the library catalogues at DESY and GSI and all functionalities required to handle Article Processing Charges (APCs), a rapidly growing part of our services.

Given the broad scope of research in the JOIN2 instances, JOIN2 profits a lot from bibliographic expertise at the libraries. The knowledge how to model things appropriately can almost immediately be transferred from the librarian to our internal structure using the same language on both ends: MARC-21 and RDA.

To this end **JOIN2 proposes the implementation of an INVENIO flavor with a MARC-21 data model as “first class citizen”**. This would form the base for the new JOIN2 flavor of INVENIO 3.

As formal procedure we suggest to set up an agreement with all interested parties and CERN, from which stems the INVENIO 3 technology.

Besides the obvious content such as title and description of the project, such an agreement needs to specify the deliverables, work packages and milestones with a schedule, together with a description of the organization including roles and responsibilities of all parties involved.

We believe that the unique combination of repository, ILS, CRIS, APC handling and campus literature management targets academic/research institutions and thus has a large market potential. It

enables their libraries to run and maintain this crucial infrastructure, hugely benefiting from the synergies we already rely on at JOIN2 today. The field of application is not restricted to research institutes and libraries: the INVENIO MARC-21 flavor and later the JOIN2 flavor of INVENIO 3 will be useful for governmental organizations and companies, too.

We want to contribute to the to-be-defined work packages of this MARC 21 INVENIO 3 flavor.

Please contact us at library@desy.de, if you are interested in joining our efforts to establish first an INVENIO 3 MARC 21 flavor and later a full INVENIO 3 JOIN2 flavor.

Primary author: Mr KOEHLER, Martin (DESY)

Presenter: Mr KOEHLER, Martin (DESY)

Session Classification: Invenio User Group Workshop

Contribution ID: 9

Type: **not specified**

Invenio State of the Union

Monday, June 10, 2019 9:00 AM (15 minutes)

An overview of the current status of Invenio, the community, ongoing projects and future projects.

Primary author: NIELSEN, Lars Holm (CERN)

Presenter: NIELSEN, Lars Holm (CERN)

Session Classification: Invenio User Group Workshop

Contribution ID: **10**

Type: **not specified**

Introduction to JuSER repository and APC integration

Monday, June 10, 2019 10:00 AM (15 minutes)

An introduction to JuSER repository as a publication database, and open access repository including authorities for reporting. Includes an overview of APC integration in JuSER reporting.

Primary authors: HESTER, Zöe (FZ Jülich); FRICK, Claudia (FZ Jülich)

Presenters: HESTER, Zöe (FZ Jülich); FRICK, Claudia (FZ Jülich)

Session Classification: Invenio User Group Workshop

Contribution ID: 11

Type: **not specified**

Research Data Repository @ Universität Hamburg

Monday, June 10, 2019 11:00 AM (15 minutes)

Research Data Repository @ Universität Hamburg

Primary author: Dr WÖRNER, Kai (Universität Hamburg)

Presenter: Dr WÖRNER, Kai (Universität Hamburg)

Session Classification: Invenio User Group Workshop

Contribution ID: 12

Type: **not specified**

Using Invenio RDM to power biomedical research

Monday, June 10, 2019 11:15 AM (15 minutes)

Learn how the Invenio RDM will be used to support clinical and translational research through work happening in the CTSA Program National Center for Data to Health and Northwestern University.

Primary author: Dr HOLMES, Kristi (Northwestern University)

Presenter: Dr HOLMES, Kristi (Northwestern University)

Session Classification: Invenio User Group Workshop

Contribution ID: 13

Type: **not specified**

CERN Open Data portal: Invenio meets big data

Monday, June 10, 2019 11:30 AM (15 minutes)

The CERN Open Data repository platform manages and disseminates close to two petabytes of open data from particle physics. This includes collision and simulated datasets together with software code examples, associated documentation, configuration files, and virtual machines enabling to explore the released data for both educational and research purposes. In this talk, we will address how Invenio technology is used in running the service, from managing big research data sets, through keeping the system highly available during high user demand periods, up to providing customised interactive data visualisation and exploration of research data.

<https://gitlab.cern.ch/invenio/template-openshift>

Primary author: RODRIGUEZ RODRIGUEZ, Diego (CERN)

Presenter: RODRIGUEZ RODRIGUEZ, Diego (CERN)

Session Classification: Invenio User Group Workshop

Contribution ID: 14

Type: **not specified**

Experience report: Developing the Repository for the CSMS (Centre for the Study of Manuscript Culture) of the Uni Hamburg with Invenio 3

Monday, June 10, 2019 12:00 PM (15 minutes)

Short presentation (from a software developer's point of view) of the process of developing the new Repository starting from zero.

Presenter: MOSSONI, Cristina

Session Classification: Invenio User Group Workshop

Contribution ID: 16

Type: **not specified**

Bye MARC, hello JSON

Monday, June 10, 2019 11:45 AM (15 minutes)

The presentation will show some insights about the migration from Invenio 1 to Invenio 3. It will include some real examples with focusing on data management and architecture challenges.

Primary author: PRZERWA, Karolina (CERN)

Presenter: PRZERWA, Karolina (CERN)

Session Classification: Invenio User Group Workshop

Contribution ID: 17

Type: **not specified**

Invenio v3 at RERO

Monday, June 10, 2019 1:30 PM (15 minutes)

There are two main projects based on Invenio v3 at RERO currently, both under active development: RERO ILS and SONAR. RERO ILS is an Integrated Library System, and it includes two sub-projects, RERO-EBOOKS and MEF (Multilingual Entity File). The second main project, SONAR, is a Swiss-wide institutional repository that intends to collect, promote and preserve scholarly publications of authors affiliated with Swiss public research institutions. It aggregates publications from various sources, including existing institutional and subject repositories. SONAR also provides IRaaS (Institutional Repositories as a Service).

What are the realizations and lessons learned?

Primary author: DÉLÈZE, Sébastien (RERO)

Presenter: DÉLÈZE, Sébastien (RERO)

Session Classification: Invenio User Group Workshop

Contribution ID: **18**

Type: **not specified**

Citations and COUNTER-compliant Usage Statistics

Monday, June 10, 2019 2:30 PM (15 minutes)

Citations and COUNTER-compliant Usage Statistics

Primary author: BIGARELLA, Chiara (CERN)

Presenter: BIGARELLA, Chiara (CERN)

Session Classification: Invenio User Group Workshop

Contribution ID: **19**

Type: **not specified**

Hasdai and Data Futures

Monday, June 10, 2019 1:45 PM (15 minutes)

Hasdai

Primary author: JEFFERIES, Neil (Data Futures)

Presenter: JEFFERIES, Neil (Data Futures)

Session Classification: Invenio User Group Workshop

Contribution ID: **20**

Type: **not specified**

CERN Search - enterprise search on Invenio

Monday, June 10, 2019 2:15 PM (15 minutes)

An enterprise search as a service solution based on Invenio 3

Primary author: PANERO, Pablo (Universidad de Oviedo (ES))

Presenter: PANERO, Pablo (Universidad de Oviedo (ES))

Session Classification: Invenio User Group Workshop

Contribution ID: 21

Type: **not specified**

Invenio at CottageLabs

Monday, June 10, 2019 2:00 PM (15 minutes)

Invenio at CottageLabs

Primary author: JONES, Richard (CottageLabs)

Presenter: JONES, Richard (CottageLabs)

Session Classification: Invenio User Group Workshop

Contribution ID: 22

Type: **not specified**

Inveniocrdm project

Monday, June 10, 2019 3:30 PM (15 minutes)

CERN has partnered with 10 multidisciplinary institutions and companies to build a turn-key open source research data management platform called InvenioRDM, and grow a diverse community to sustain the platform.

The InvenioRDM project is funded by the CERN Knowledge Transfer Fund, as well as all the participating partners, including:

- Brookhaven National Laboratory (US)
- Caltech Library (US)
- Data Futures (UK)
- Helmholtz Zentrum Dresden-Rossendorf (DE)
- Northwestern University (US)
- OpenAIRE (GR)
- TIND (NO)
- Tubitak (TK)
- University of Hamburg (DE)
- University of Münster (DE)

The project has an ambitious one year schedule in which it will deliver:

- InvenioRDM - A research data management platform based on Zenodo and Invenio v3 Framework.
- A community of public and private institutions to sustain InvenioRDM.
- Minimum two existing repositories migrated to InvenioRDM, with Zenodo being one of them.

The key to successfully achieving the ambitious schedule is that InvenioRDM will be based on Zenodo that have already been successfully validated over the past 5 years.

Our vision in the next five years, is to make InvenioRDM a world-leading extensible research data management platform used by research institutions all around the world and with businesses providing services, support and customizations on top of InvenioRDM.

Primary author: NIELSEN, Lars Holm (CERN)

Presenter: NIELSEN, Lars Holm (CERN)

Session Classification: Invenio User Group Workshop

Contribution ID: 23

Type: **not specified**

Invenio community building & engagement

Monday, June 10, 2019 3:45 PM (15 minutes)

Join us for an open discussion on open source community building and how to empower your local engagement efforts.

Primary author: Dr HOLMES, Kristi (Northwestern University)

Presenter: Dr HOLMES, Kristi (Northwestern University)

Session Classification: Invenio User Group Workshop

Contribution ID: 24

Type: **not specified**

Open Discussion

Monday, June 10, 2019 4:00 PM (50 minutes)

Open discussion about how to empower the Invenio community.

Primary authors: NIELSEN, Lars Holm (CERN); HOLMES, Kristi (Northwestern University)

Presenters: NIELSEN, Lars Holm (CERN); HOLMES, Kristi (Northwestern University)

Session Classification: Invenio User Group Workshop

Contribution ID: 25

Type: **not specified**

Closing

Monday, June 10, 2019 4:50 PM (10 minutes)

Closing notes

Primary author: NIELSEN, Lars Holm (CERN)

Presenter: NIELSEN, Lars Holm (CERN)

Session Classification: Invenio User Group Workshop