Interoperability

Amsterdam, Nov 12, 2014

Martin Jagerhorn, Head of Converis Customer Relations
Building blocks for a seamless cross-institutional workflow

• Systems to collect and exchange required information
  – Research Institution
  – Funder / Publisher
  – Third parties (e.g. content providers)

• Dictionaries for understanding the information

• Technical format and protocols for communication

• Bottom line:
  – Technology is ready
  – Many, many, many initiatives going on, but…
  – Use cases are fragmented / not yet strong enough
Examples of Interoperability

- Identifiers: the starting point
- CV submission
- Region of Bolzano (bottom up)
- SweCRIS (top down)
Directly Create a ORCID ID out of Converis

Initials: TH
Marital status: Married
Date of birth: 05/06/1985
Place of birth: Bruchsal
ORCID ID:
Researcher ID: A-4659-2014
ISNI: 0000 0001 1914 1338

Create ORCiD profile

Do you really want to create a profile with following details:

  Last name: Hoellrigl
  First name: Kilian
  Email: Kilian@Hoellrigl.net

[Cancel] [Create]
Use ORCID ID to import publications

Select a Person
Hoerlitz, Thorsten - Thomson Reuters (Active)

Search for Publications
Please search for your alias(es), e.g. Smith J; Smith JD, and/or affiliation.

- THOMSON PREMIUM
- EUROPUBMED
- ORCID

- Search with ORCID ID of selected person
  ORCID ID: 0000-0001-6080-464X

Search
Clear

WoS (8) ORCID (6)

Publication data
Action to be performed

- CONNECTING CLOSED WORLD RESEARCH INFORMATION SYSTEMS THROUGH THE LINKED OPEN DATA WEB
  Import and relate to you

  ID: 0000059065400003
  Affiliation: German Res Ctr Artificial Intelligence DFKI GmbH, Univ Cadiz, Univ Alcala De Henares,Charles Univ Prague, Rutherford Appleton La...

- Advances in Sharing and Managing Knowledge about European Research Infrastructures
  Import and relate to you

  Beckers P, Jaegehorn M, Hoerlitz T, Jaffrey KG, Dvorak J
CV submission

• Standard vocabulary => Ease of interpretation

• Standard output format => Bridging different systems
Dr. Thorsten Hoellrigl
Karlsruhe, Germany

34 Publications
0 Times Cited

Things to do

6 Publications for validation

Recently edited
FedWare: Middleware Services to Cope with Information Consistency in Federated Identity Management; Hoellrigl T, Dinger J, Hartenstein H; 2010; Conference proceedings article

Region of Bolzano

• Objective
  – Get an overview of the research landscape in the region of Bolzano

• Stakeholders
  – Region of Bolzano: Funder
  – University of Bolzano & EURAC: Research Institutions
  – Further being added over time

• Regional Framework for Converis
  – Shared services / Pricing / Hosting
  – Exchange from institutions to the funder
    • Identifiers / No duplication
    • People, Org units, Pubs / Outputs, Projects & Contracts, Equipment, Patents.
SweCRIS: part of the national ecosystem

Digitalt ekosystem för forskningsinformation
A comparison of different three-dimensional treatment planning techniques for localized radiotherapy of prostate cancer.

Strahlentherapie und Onkologie
Volume number: 175 (Pages: 10-16)
Journal article
View additional information: View in Web of Science

Journal:

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<tr>
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<th>ISSN</th>
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<td></td>
<td>0179-7158</td>
<td>1439-099X</td>
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Green - can archive pre-print and post-print or publisher's version/PDF

Embargo date for full text:
If the full-text(s) associated with this publication are subject to an embargo date, please record that here. CONVERIS will only export full-text(s) for this publication once the embargo date is exceeded.

[ ]

Full text deposited: [ ]
## Configuration

### System Resources
- Timers (12)
- ChoiceGroups (143)
- Constants (269)

### Data Model
- Entities (65)
- Entity Attributes (955)
- Link Entities (339)

### Template management
- Entities (705 + 182)
- Reports (8)
- CVs (5)

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<td><a href="mailto:brigitte.joerg@thomsonreuters.com">brigitte.joerg@thomsonreuters.com</a></td>
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<tr>
<td>OAIPM+_REPOSITORY_NAME</td>
<td>Convertis OAI-PMH</td>
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Special Rights (244)
- Create Rights (90)
- Module Permissions (28)
- Workflow Matrix (375)
<irconfig>
  <ir name="oaipmh">
    <mapping>
      <!-- SetSpecs -->
      <infoobjecttype name="Publication" relation="">
        <attribute name="Publication type" type="choicegroup" lang="false">
          <element>doc-type</element>
          <qualifier>publication type</qualifier>
          <!-- Publication Types according to DINI 2010 v3.0 (table 2) -->
          <value>preprint</value>
          <value>workingPaper</value>
          <value>article</value>
          <value>contributionToPeriodical</value>
          <value>PeriodicalPart</value>
          <value>Periodical</value>
          <value>book</value>
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          <value>Manuscript</value>
          <value>StudyThesis</value>
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          <value>masterThesis</value>
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      </infoobjecttype>
    </mapping>
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</irconfig>
CONVERIS OAI-PMH Functions (e.g. DC, SwePub_MODS)

- List Records:
  https://standard.avedas.com/converis5-standard-config/oaipmh?
  verb=ListRecords&metadataPrefix=oai_dc
Extension for information card systems to achieve User-Controlled Automated Identity Delegation

Hoellrigl, Thorsten

Hartenstein, Holger

2011-12-31

The growing number of IT services in distributed systems is directly related to the security and privacy of personal data. User-centric federated identity management (FIM) attends to the privacy issue by enabling users to approve each data dissemination between the providers of identity-related information, so-called identity providers (IdPs), and the consumers of this information, the service providers (SPs). Furthermore, user-centric FIM tries to improve security and usability by providing users with a consistent digital-identity experience using so-called information cards (InfoCards). The InfoCard-based approach can help to improve usability, privacy and security, however, the approach is limited to front-channel communication and requires that each data exchange is manually approved by the user. A back-channel communication might be required in scenarios, in which an IdP wants to notify SPs about e.g. a deactivation of a user. In [3] we proposed an approach, named User-Controlled Automated Identity Delegation, that allows a back-channel communication by automating user approval based on delegation. In this paper we demonstrate the practicality of the approach in a real-world scenario by providing a performance evaluation conducted on a prototypical implementation. © 2011 IEEE.
Looking forward to use cases, like:

• Output collection systems
  – OpenAIRE (OAI-PMH + CERIF-XML): Q1, 2015
  – ResearchFish: ???

• Publishers’ submission systems
  – ScholarOne
  – Others

• Funders’ grants management systems (e.g. Prisma, JeS, …)
  – With Converis: CERIF-XML, CASRAI, ORCID
  – Without Converis: CERIF-XML, CASRAI, ORCID