



národní
úložiště
šedé
literatury

CERIF – úvod ke společnému evropskému formátu pro informace o výzkumu

Dvořák, Jan
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Další dokumenty můžete najít prostřednictvím vyhledávacího rozhraní nusl.cz .

CERIF

Common European Research Information Format An Introduction

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Outline

- Research Information
- CERIF structure
- CERIF history & present state & future
- CERIF usage
- euroCRIS
- ...

Research Information

- Projects
- Publications
- Organizations
- Persons
- Funding
- ... and other objects ...
- ... and their types, subjects, statuses ...
- ... and relationships between them.
- All in a well-designed database!

CERIF Entities

- Base: Project, OrgUnit, Person
- Result: Publication, Patent, Product
- Funding
- 2nd level entities:
 - Event
 - Facility, Equipment, Service
 - Address (Postal, Electronic)
 - CV, Expertise/Skill, Qualification, Prize
- Attributes – not many:
 - Identifier (UUIDs recommended)
 - URI
 - (Acronym, StartDate+EndDate, ...)

CERIF Multilingual Support

- All free text attributes
 - Titles, Descriptions, Abstracts, Keywords, ...
- Represented as dependent entities
- Distinguished by
 - Language code (ISO 639-2)
 - Translation mode
 - **o** – original value
 - **h** – human translation
 - **m** – machine translation
- E.g. cfOrgUnitName:
 - Id₁ – **cs** – **o**: **Národní technická knihovna**
 - Id₁ – **en** – **h**: **National Technical Library**

CERIF Classifications

- Statements about type, subject, status, ...
- Declared semantics
- Time-based
- X classified C in time interval I
- E.g.

OrgUnit₁ is a public research institution

Entity Type

from date₁ to date₂.

Valid time range

- Classifications stored in the Semantic Layer

CERIF Linking Entities

- Binary relationships
- Declared semantics
- Time-based
- Facts: X in relationship with role R with Y in time interval I

- E.g.

Person₁ principal investigator in Project₁

Entity₁ Role Entity₂

from date₁ to date₂.

Valid time range

- Role ~ classifications (the Semantic Layer)
-

CERIF XML

- For information interchange
- Since 2006
- XML Schemas
- 1:1 correspondence to the relational data
- Now undergoing a renovation

History

- CERIF 91: flat file (just Project)
- CERIF 2000: relational database
Project, OrgUnit, Person
- CERIF 2004: Results:
Publication, Patent, Product
- CERIF 2006: the Semantic Layer, CERIF XML
- CERIF 2008-1.1: includes predefined semantics for some types and roles

Present State & Future

- CERIF 2008-1.3 (due November 2011)
 - Measures and Indicators
 - To support evaluation exercises, such as REF [GB]
 - Research Outputs, Outcomes, Impacts
 - Geo-locations
 - External linkage
 - Linked Open Data, Semantic Web
- Bright future ahead
 - Open and active Task Group
 - Members from DE, GB, BE, NO, DK, CZ, SK, GR

CERIF Impact

- Current Research Information Systems throughout Europe
 - Universities
 - Other Research-Performing Organizations
 - Funding Agencies
- Vendors offering CERIF-based CRISs:
 - Atira [DK] – DK, GB
 - Avedas [DE] – DE, SE
- Increasing adoption by contracted or in-house implementations
 - Interway [SK] – “Slovak CRIS”
- Inspiration for many data integration efforts

euroCRIS (www.eurocris.org) // The Organization

- Not-for-profit non-governmental association of research information management professionals from
 - Universities & research-performing organizations
 - Funding agencies
 - Coordination bodies
 - European institutions
- ~200 members from 40+ countries
 - Europe & beyond

- Entrusted by the EC with the custodianship of CERIF. EC recommends using CERIF for building CRISs.

euroCRIS (www.eurocris.org) // Activities

■ Task Groups

- ❑ CERIF
- ❑ Projects
- ❑ Best Practice
- ❑ CRIS-IR (integration with institutional repositories)
- ❑ Architectures
- ❑ Linked Data

■ Events

- ❑ CRIS conferences (every 2 years)
- ❑ Strategic seminars (every year @ Brussels)
- ❑ Membership meetings (every ½ year)

CRIS 2012 June 6-9, 2012 @ Prague
11th International Conference on
Current Research Information Systems



www.cris2012.org

e-Infrastructures for Research and Innovation

Linking information systems to improve scientific knowledge production

Important dates

Dec 1 st , 2011	Abstracts Deadline
Jan 31, 2012	Acceptance/Rejection Announcement
Mar 31, 2012	Manuscript due Date
Jun 6-9, 2012	Conference