



DSpace-CRIS

An Open Source Solution



DSpace-CRIS: a bit of History

- In 2009 the Hong Kong University wanted to extend the information exposed in their DSpace IR (publications) adding information (people /projects) coming from other systems (mainly for administrative purpose) – **CRIS**
- One year ago... DSpace-CRIS has been released as an open source general solution to enrich DSpace with CRIS entities & concepts.





Dspace-CRIS



Andrea Bollini, product manager DSpace-CRIS → long term DSpace Committer (from 2007)

Luigi Andrea Pascarelli, lead developer DSpace-CRIS → new DSpace Committer

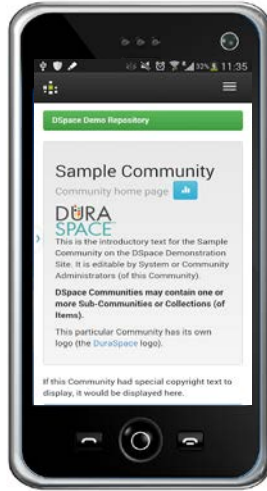
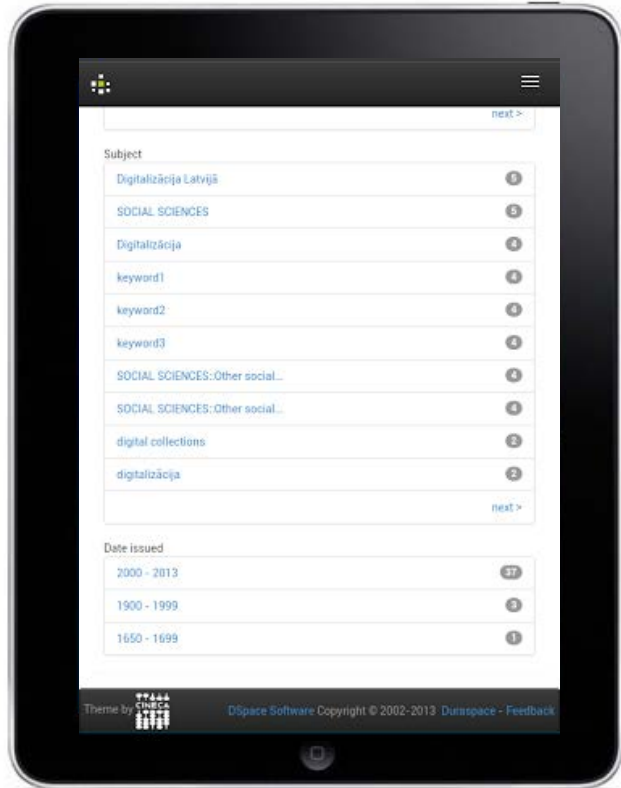
Andrea Bollini, Release Team for Version 4.0

New features for 4.0: new Look&Feel; external import on submission (with EKT); other technical improvements

- Up-to-date Technologies:
 - Spring Framework and Spring MVC
 - Hibernate
 - Apache SOLR 4
- Support of all DSpace versions accepted by the Community
- Free download available at: github.com/Cineca/dspace-cris/



New look&feel



DSpace JSPUI

DSpace preserves and enables easy and open access to all types of digital content including text, images, moving images, mpegs and data sets

DSpace Demo Repository

Welcome to the DSpace.org demonstration/sample repository JSPUI interface
This repository is currently running DSpace version 4.0RC1
WARNING: All content on this site resets automatically every Saturday at 23:59 UTC, at which point any changes are lost.

Demo Users are set up in the system

All users have password equal to the lowercase name of this software:

- Demo Site Administrator = dspacedemo+admin@gmail.com
- Demo Community Administrator = dspacedemo+commadmin@gmail.com
- Demo Collection Administrator = dspacedemo+colladmin@gmail.com
- Demo Submitter = dspacedemo+submit@gmail.com

Recent Submissions

Extra Features Enabled

- Embargo option in Submission process
- Authority Control (on Authors & Publishers) in Submission process
- Community/Collections/Item Statistics are publicly visible
- OpenSearch
- Google Scholar metadata

Communities in DSpace

Discover

Author	Count	Subject	Date issued
Kriemeja, Liga	27	Digitalizācija Latvijā	2000 - 2013
Krumina, Liga	2	SOCIAL SCIENCES	1900 - 1999
Avins, Alexander	1	Digitalizācija	1650 - 1699
Autorga-Wells, Juan	1	keyword1	
Baumgart, E	1	keyword2	
Bergman, Tomas	1	keyword3	
Bolte, Andrea	1	SOCIAL SCIENCES: Other social...	
Cat, Lily	1	SOCIAL SCIENCES: Other social...	
Doc, Jane L	1	digital collections	
Doc, John F	1	digitalizācija	

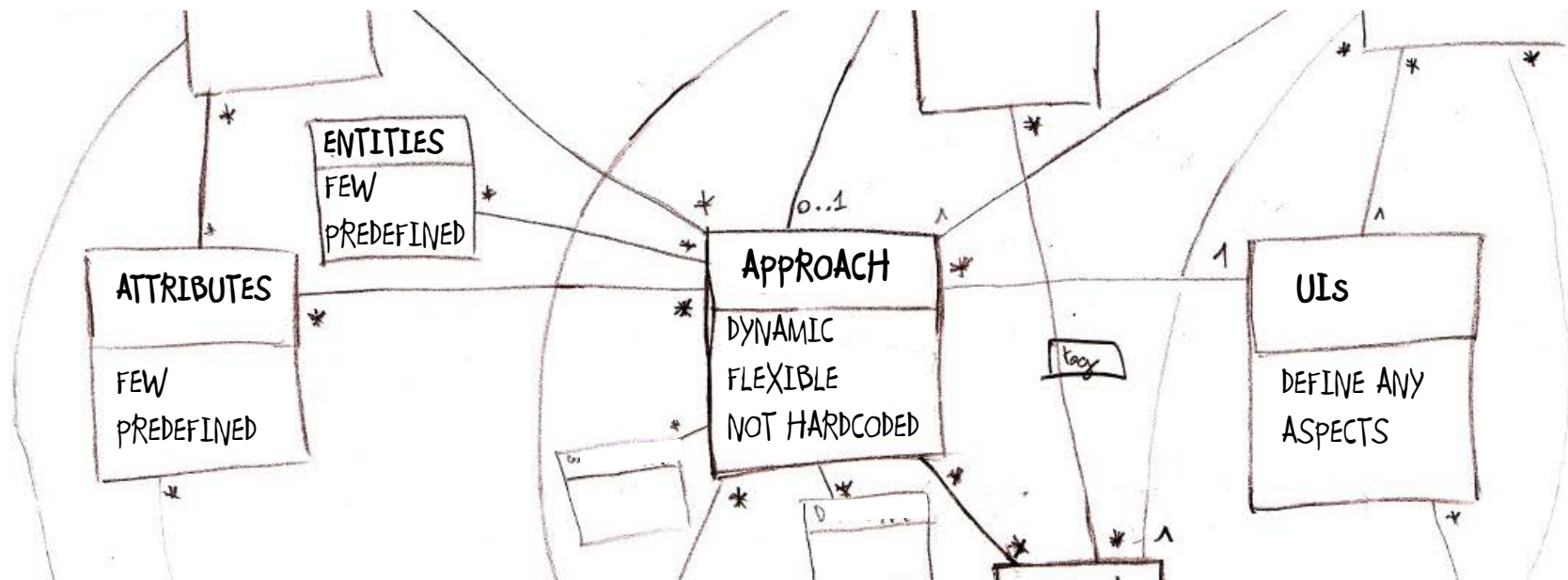
Theme by CINECA | DSpace Software Copyright © 2002-2013. Duraspace - Feedback

A Beta version not so Beta..

- **1** Running production installation: The HUB – Hong Kong University
- **5-10** development installations: Asia, Europe, Australia
- **40+** installations in Italy starting in 2014

- Full documentation will be available after the release of the final version (early 2014)

Data model



standard Dspace --> publications & dataset

Dspace-CRIS --> other CERIF entites:

/ ResearcherPage

/ Project

/ OrgUnit

/ 2nd Level Dynamic Object

How it works...

Live DEMO

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for

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Add filters:
Use filters to refine the search results.

Results/Page | Sort items by In order Authors/record

Results 1-50 of 646 (Search time: 0.006 seconds).

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CERIF Schema

Title/Name
CERIF Entities
Mereotopological Structure
Person Professional Relationships
Inter-Organisational Structure
Inter-Publication Relations
Inter-Patent Relations
Person Titles
Person Degree Levels of Study
Inter-Service Relations
Inter-Output Relations

By people

- [Andrea Bollini \(1\)](#)
- [Ed Simons \(1\)](#)
- [Jan Dvořák \(1\)](#)
- [Jörg Brigitte \(1\)](#)
- [Nikos Houssos \(1\)](#)
- [Pablo de Castro \(1\)](#)

By structure

- [Best Practice TG \(1\)](#)
- [CERIF TG \(1\)](#)
- [CINECA \(1\)](#)
- [CRIS Architecture and Develop... \(1\)](#)
- [euroCRIS \(1\)](#)
- [European Commission - Joint R... \(1\)](#)
- [GrandIR Ltd. \(1\)](#)
- [Sapienza University of Rome \(1\)](#)

By type

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- [Scheme \(68\)](#)
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- [Communities \(1\)](#)

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CERIF Entities

Tab

Info

Display Value: CERIF Entities **Scheme ID:** 6e0d9af0-1cd6-11e1-8bc2-0800200c9a66

Description Value:

This scheme contains defined CERIF concepts such as person, organisation, research infrastructure (being not only a 1:1 representation of the CERIF entities), but even more, e.g. research infrastructure subsumes facility, equipment and service and output subsumes publication, patent, and product in CERIF.

Name Value: CERIF Entities

Semantics

Risultati: 1 - 20 di 22

Result pages: 1 2 next

Title/Name
Publication
Funding
Facility
Equipment
Service
Citation
Curriculum Vitae



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Search input field and 'Esegui' button

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Publication

Semantics

Info

Class ID: cf7799e5-3477-11e1-b86c-0800200c9a66 Display Value: Publication
Class2Scheme: CERIF Entities(6e0d9af0-1cd6-11e1-8bc2-0800200c9a66) Start date: 01-01-1901
End date: 01-01-2099

Description:

In CERIF, the concept of publication is physically (cfResPubl) and logically (cfResultPublication) defined as an entity in an ERM, described through basic attributes and through semantically neutral relationships with e.g. persons (cfPers_ResPubl), organisations (cfOrgUnit_ResPubl), classification systems (cfResPubl_Class), projects (cfProj_ResPubl). "In CERIF, cfResPubl (cfResultPublication) is an entity in the ERM. In the CERIF vocabulary, we introduce the concept of publication. Behind the publication concept in research there are mostly peer-reviewed publications (journal articles, conference articles). More and more, there are also other publication types of interest in the scientific domain, so-called 'Grey Literature', and multiple schemes are available to collect publication types. In the physical CERIF data model, the classification of types for publications happens with the cfResPubl_Class entity, where a type is represented by a classification term (cfTerm) identified by its cfClassificationIdentifier (a uuid), and reused at instance level for assigning publication types to publication records.

Definition:

Collection of information records that, in combination, represent a full and up-to-date history of research or scholarly published outputs resulting from, or related to, the person's research activities.

Term Value: Publication Example:

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Browsing by Researcher

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or enter first few letters:

In order: Results/Page Authors/Record:

Showing results 1 to 6 of 6

Fullname	Professional Title	Email
Andrea Bollini	Project Manager, IT Architect & Systems Integrator at CINECA	a.bollini@cineca.it
Ed Simons	President at euroCRIS	e.simons@ru.nl
Jan Dvořák	Task Group Leader CERIF	jan.dvorak@infoscience.cz
Jörg Brigitte	Executive Board Member for Strategy	brigitte.joerg@gmail.com
Nikos Houssos	Task Group Leader CRIS Architecture and Development	nhoussos@ekt.gr
Pablo de Castro	Director and co-founder of GrandIR; Task Group Leader Best Practice	pcastromartin@gmail.com

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Researcher profile: Bollini, Andrea

Personal Page

Cerif

Details



Fullname: Andrea Bollini **Academic name:** Bollini, Andrea **Email:** a.bollini@cineca.it

Title: Project Manager, IT Architect & Systems Integrator at CINECA **Also known as:** Bollini, A

Affiliation		
Role	Member of Start date	
Employee	CINECA	01-07-2013
Member	CERIF TG	01-01-2013

Misc

Keywords: JAVA
Open Source
Software

ORCID: [0000-0002-9029-1854](#)

Websites: [Linkedin](#)

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```
<?xml version="1.0" encoding="UTF-8"?>
<CERIF xmlns="urn:xmlns.org:eurocris:cerif-1.6-2"
  xsi:schemaLocation="urn:xmlns.org:eurocris:cerif-1.6-2 http://www.eurocris.org/Uploads/Web%20pages/CERIF-1.6/CERIF_1.6_2.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" release="1.6" date="2013-11-13" sourceDatabase="Researcher Page">
  <cfPers>
    <cfPersId>rp00006</cfPersId>
    <cfBirthdate>1980-08-04T00:00:00</cfBirthdate>

    <cfPers_EAddr>
      <cfEAddrId>a.bollini@cineca.it</cfEAddrId>
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      <cfClassSchemelId>05cc5ff9-bc58-4743-ab59-46e5013e0039</cfClassSchemelId>
    </cfPers_EAddr>

    <cfPersName_Pers>
      <cfPersNameId>17</cfPersNameId>
      <cfFamilyNames>Bollini</cfFamilyNames>
      <cfFirstNames>Andrea</cfFirstNames>
      <cfClassId>55f90543-d631-42eb-8d47-d8d9266cbb26</cfClassId>
      <cfClassSchemelId>7375609d-cfa6-45ce-a803-75de69abe21f</cfClassSchemelId>
      <cfStartDate>1980-08-04T00:00:00</cfStartDate>
    </cfPersName_Pers>
    <cfKeyw cflangCode="EN" cfTrans="o">JAVA</cfKeyw>
    <cfKeyw cflangCode="EN" cfTrans="o">Open Source</cfKeyw>
    <cfKeyw cflangCode="EN" cfTrans="o">Software</cfKeyw>

    <cfPers_OrgUnit>
      <cfOrgUnitId>ou00004</cfOrgUnitId>
      <cfClassId>7210b760-1cfc-11e1-8bc2-0800200c9a66</cfClassId>
      <cfClassSchemelId>994069a0-1cd6-11e1-8bc2-0800200c9a66</cfClassSchemelId>
      <cfStartDate>2013-07-01T00:00:00</cfStartDate>
    </cfPers_OrgUnit></cfPers_OrgUnit>
```

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```

<cfPersNameId>17</cfPersNameId>
<cfFamilyNames>Bollini</cfFamilyNames>
<cfFirstNames>Andrea</cfFirstNames>
<cfClassId>55f90543-d631-42eb-8d47-d8d9266cbb26</cfClassId>|
<cfClassSchemelD>7375609d-cfa6-45ce-a803-75de69abe21f</cfClassSchemelD>
<cfStartDate>1980-08-04T00:00:00</cfStartDate>
</cfPersName_Pers>
<cfKeyw cfLangCode="EN" cfTrans="o">JAVA</cfKeyw>
<cfKeyw cfLangCode="EN" cfTrans="o">Open Source</cfKeyw>
<cfKeyw cfLangCode="EN" cfTrans="o">Software</cfKeyw>

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  <cfClassId>7210b760-1cfc-11e1-8bc2-0800200c9a66</cfClassId>
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<cfFedId>
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  <cfFedId>0000-0002-9029-1854</cfFedId>
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    <cfClassSchemelD>bccb3266-689d-4740-a039-c96594b4d916</cfClassSchemelD>
  </cfFedId_Class>
</cfFedId>

</cfPers>
</CERIF>

```




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Utente collegato: a.bollini@cineca... (Logout)

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Organization Unit: CINECA

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Edit Organization Unit

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Details



Name: CINECA Country: Italy Website: [Click here](#)

Type of Membership

Type	Relation with	Start date	End Date
Member	euroCRIS	01-11-2013	

OrgUnit Classification: [Private non-profit](#) Establish date: 01-01-1969

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 Cerif

▼ Cerif Export

```
<?xml version="1.0" encoding="UTF-8"?>
<CERIF xmlns="urn:xmlns:org:eurocris:cerif-1.6-2"
  xsi:schemaLocation="urn:xmlns:org:eurocris:cerif-1.6-2 http://www.eurocris.org/Uploads/Web%20pages/CERIF-1.6/CERIF_1.6_2.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" release="1.6" date="2013-11-13" sourceDatabase="OrgUnits">
  <cfOrgUnit>
    <cfOrgUnitId>ou00004</cfOrgUnitId>
    <cfName cfLangCode="en" cfTrans="o">CINECA</cfName>

    <cfOrgUnit_Class>
      <cfClassId>eda2b2f5-34c5-11e1-b86c-0800200c9a66</cfClassId>
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    </cfOrgUnit_Class>

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      </cfFedId_Class>
    </cfFedId>

  </cfOrgUnit>
</CERIF>
```


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CRIS 2012 - Prague

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Name: CRIS 2012 - Prague

Events Title:

CRIS 2012: e-Infrastructures for Research and Innovation - Linking Information Systems to Improve Scientific Knowledge Production

Subtitle: 11th International Conference on Current Research Information Systems **Year:** 2012

Abstract:

The positive and causal link between research on one hand and wealth creation and improvement in the quality of life on the other is established. Questions may be asked concerning the quality of the research and the value for money. In order to answer these questions, and manage the associated processes, research information has become indispensable. It started as the simple administrative data on research projects, their funding and their lead participant. Over time, research information expanded to record many other aspects of research: results, funding, facilities, equipment, research-related services, impact. Current Research Information Systems (CRIS) are becoming the core of the information infrastructure of all organisations that have to do with research: those that perform it, fund it, or track it. CRIS 2012 is the eleventh in the biennial series of conferences on CRIS organised since 2002 by euroCRIS. Between 1991 and 2000 a somewhat irregular CRIS conference series was run in an ad hoc manner with some support from the European Commission. CRIS 2012 has attracted a rather large number of submissions that document well the current trends in all aspects of CRIS. The big challenge many authors approach from different angles is setting up meaningful and scalable links between CRIS and other information systems, and among CRIS themselves to provide an international overview of research. In this way, CRIS are becoming integral parts of research e-Infrastructures; the connected CRIS in fact form a very important e-Infrastructure themselves.

Start date: 06-06-2012

End date: 09-06-2012

Place: Prague, Czech Republic

Event Type: Conference

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Subtitle: 11th International Conference on Current Research Information Systems **Year:** 2012

Abstract:

The positive and causal link between research on one hand and wealth creation and improvement in the quality of life on the other is established. Questions may be asked concerning the quality of the research and the value for money. In order to answer these questions, and manage the associated processes, research information has become indispensable. It started as the simple administrative data on research projects, their funding and their lead participant. Over time, research information expanded to record many other aspects of research: results, funding, facilities, equipment, research-related services, impact. Current Research Information Systems (CRIS) are becoming the core of the information infrastructure of all organisations that have to do with research: those that perform it, fund it, or track it. CRIS 2012 is the eleventh in the biennial series of conferences on CRIS organised since 2002 by euroCRIS. Between 1991 and 2000 a somewhat irregular CRIS conference series was run in an ad hoc manner with some support from the European Commission. CRIS 2012 has attracted a rather large number of submissions that document well the current trends in all aspects of CRIS. The big challenge many authors approach from different angles is setting up meaningful and scalable links between CRIS and other information systems, and among CRIS themselves to provide an international overview of research. In this way, CRIS are becoming integral parts of research e-Infrastructures; the connected CRIS in fact form a very important e-Infrastructure themselves.

Start date: 06-06-2012 **End date:** 09-06-2012 **Place:** Prague, Czech Republic **Event Type:** Conference

Publications (All)

Risultati: 1 - 3 di 3

Data di edizione	Titolo	Autore/i
1 7-Nov-2013	A multi-level metadata approach for a Public Sector Information data infrastructure	Houssos, Nikos ; Jörg, Brigitte
2 6-Nov-2013	A National CRIS Infrastructure as the Cornerstone of Transparency in the Research Domain	Chudlarský, Tomáš ; Dvořák, Jan
3 2012	Streamlining the CERIF XML Data Exchange Format Towards CERIF 2.0	Dvořák, Jan ; Jörg, Brigitte ; Vestdam, Thomas



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Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/8>

Title: A multi-level metadata approach for a Public Sector Information data infrastructure
Authors: [Houssos, Nikos](#)
[Jörg, Brigitte](#)
Issue Date: 7-Nov-2013
URI: <http://hdl.handle.net/123456789/8>
Appears in Collections: [Event Publications](#)

Files in This Item:

File	Description	Size	Format	
CRIS2012_2_presentation.pdf		489,56 kB	Adobe PDF	View/Open
CRIS2012_2_full_paper.pdf		602,55 kB	Adobe PDF	View/Open

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Cerif

```
<?xml version="1.0" encoding="UTF-8"?>
<CERIF xmlns="urn:xmlns:org:eurocris:cerif-1.6-2"
  xsi:schemaLocation="urn:xmlns:org:eurocris:cerif-1.6-2 http://www.eurocris.org/Uploads/Web%20pages/CERIF-1.6/CERIF_1.6_2.xsd"
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    <cfTitle cfLangCode="EN" cfTrans="o">A multi-level metadata approach for a Public Sector Information data infrastructure</cfTitle>

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    </cfPers_ResPubl>

    <cfPers_ResPubl>
      <!-- Person Output Contribution -->
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      <cfStartDate>2013-11-07T01:00:00</cfStartDate>
    </cfPers_ResPubl>

  </cfResPubl>
</CERIF>
```

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- Conference
 - Conference Proceedings
 - Conference Proceedings Article
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Enter appropriate subject keywords or phrases below.

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Enter the abstract of the item below.

Abstract

Enter the name of any sponsors.

Sponsors

Enter the name of project, if any, that has produced this publication.

Project

Enter the name of the event.

Event

< Previous Next > Cancel/Save

Main DSpace-CRIS Entities

ResearcherPage

- managing people;
- structural relations with System Users and pre-configured properties to manage the name variants;
- This is the only entity that can be managed out-of-box by non-system administrators

Project and OrgUnit

- defined as separated entities;
- Easy to develop future extensions, specializations, specific workflow and editing rules

Second level Dynamic Object

- a single entity specialized by a profile (type) as Journal, Prize, Event, etc.;
- Any profile has its own set of properties and nested object independently defined

Defining a DSpace-CRIS Entity

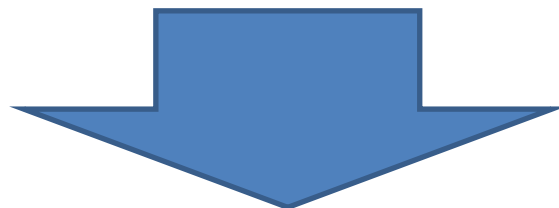
- UUID
- Public flag
- Dynamic Properties: any property belong to a **PropertyDefinition**
- System administrator can decide:
 - Repeatable
 - Mandatory
 - Underline storage data type: String, int, double, date, html link, link to other entities
 - Start / End date
 - Scope: link to a Semantic/Classification Object (itself a DynamicObject)
- Nested object: Repeatable, mandatory, list of properties

CERIF compliance

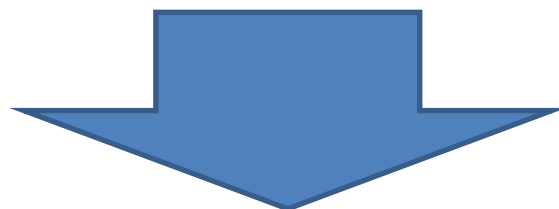
- The key components of the CERIF Data Model are supported natively:
 - uuid**
 - timestamped relation**
 - semantic charecterization**
- The flexibility of the Data Model shows how to configure instances with the CERIF Data Model.
 - The level of compliance depends on the configuration adopted by the Institution
- **Some de-normalizations are usually raccomandable**
 - easy to adopt at the start of the project when data are already available in other systems even if not enough structured (i.e. Journal information stored in the publication record or funding information stored in the project record).

A note about the DSpace Metadata model

DSpace is known to support out-of-box the Dublin Core Initiative



Work to update from the current LoC profile provided with DSpace to a dcterms schema are in progress



DSpace metadata model is not bound to DC / DC qualified or any other schema

.. the technical agnostic one...

- Any metadata is characterized by a schema, element and qualifier but...
 - **schema** = bibliografic information, administrative metadata, etc.;
 - **element** = relation with people;
 - **qualifier** = the semantic of the relationship (author, editor, etc.)
- Which metadata are available, which repeatable and which mandatory is defined by configuration
- When allowed by the configuration any metadata can holds a reference to other object (authority)



CERIF Compatibility

- Base configuration to map CRIS entities without making the system too complex for Universities.
- Further configurations could be provided as sample / addon for advanced users.
- Any installation will be able to map their specific configuration to CERIF using UI.
- A n:m mapping will be supported where a single DSpace-CRIS entity instance could be translated to more CERIF Entities and viceversa.



CRIS entities management

- Dedicated administrative UI for data model definition
- Detail page for any entity organized in Tab and Box themed with JQuery UI
- Faceted Search & Customizable Browse indexes
- Network visualization and analysis



Advantages for an Institutional Repository

- CRIS entities as authority for Item metadata values
- DSpace Items can be linked and displayed in the detail page of any CRIS entities
- Ability to display selected publications (or any other related entities) in the researcher profile
- Produce a list of selected publications (or any other related entities)

Advantages for an Institutional Repository

- **Usage Statistics**
 - CRIS entity detailed page visit
 - Global & Top related CERIF Entity views & downloads referencing the CRIS entity (projects for researchers, researchers for OrgUnits, etc.)
 - Global & Top item views & downloads referencing the CRIS entity
 - email and RSS alerts

- **Article level metrics for PubMed (extensible)**
 - Cited-by count in the item page
 - Number of articles for researcher
 - Total citations for researcher (only items in local DSpace database will be counted)

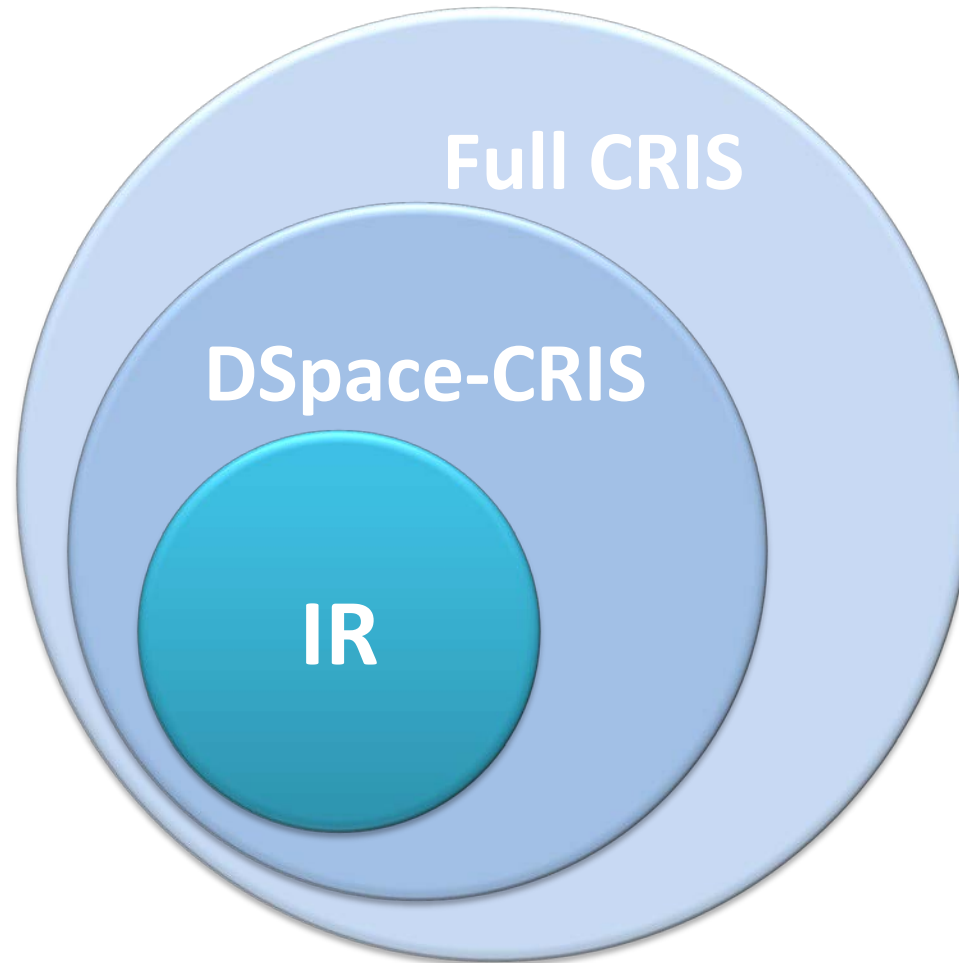


Interoperability*

- SOAP WebServices for READ-ONLY access to CRIS information
- Import from XML (future version CERIF compliant)
- Export CRIS entities in CERIF XML 1.6

* As expected in the final release

From an IR to a full CRIS





Thank you!

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[a.bollini@cineca.it](mailto:a.bollini@ Cineca.it)

