

# Digital Libraries & Open Access

"Digital Libraries & Open Access. Interoperability Strategies"

4 February 2011, The British Academy - London, UK

## The SONEX Workgroup on Deposit-Related Interoperability

Pablo de Castro, Carlos III University Madrid

[pcastro@db.uc3m.es](mailto:pcastro@db.uc3m.es)

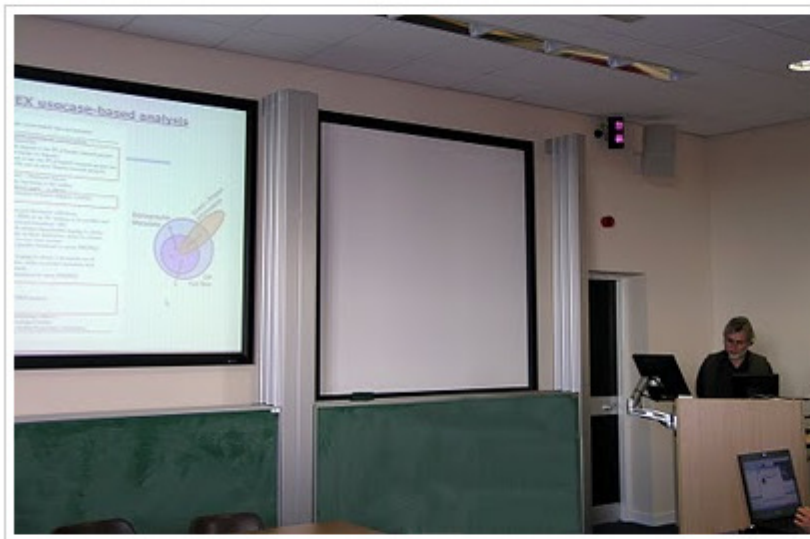
# Digital Libraries & Open Access

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TUESDAY, 14 SEPTEMBER 2010

## Sonex presentation at the 2nd DL.org workshop on Digital Library Interoperability



(picture by: Anna Nika, University of Athens)

The paper 'Handling Repository-Related Interoperability Issues: The Sonex Workgroup' was presented last week at the 2nd DL.org workshop held in Glasgow in conjunction with the 14th European Conference on Digital Libraries (ECDL2010, Sep 6-10, 2010). The DL.org workshop was scheduled under title "Making Digital Libraries Interoperable: Challenges and Approaches" and it featured several presentations by DL.org working groups on the

### BLOG ARCHIVE

▶ 2011 (1)

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SONEX at the  
Kultur/Kultivate  
workgroup meeting in...

Sonex presentation at the 2nd  
DL.org workshop on D...

RepoFringe 2010: lots of  
interesting presentations...

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▶ May (5)

▶ April (12)

<http://sonexworkgroup.blogspot.com/>

# Digital Libraries & Open Access

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# JISC

## Scholarly Output Notification and Exchange (SONEX)

The first objective of the JISC-supported Sonex initiative was to identify and analyse deposit opportunities (use cases) for ingest of research papers (and potentially other scholarly work) into the repository space. Later on, the scope of Sonex widened to include as well identification and dissemination of various projects being developed at institutions in relation to the deposit usecases previously analysed.

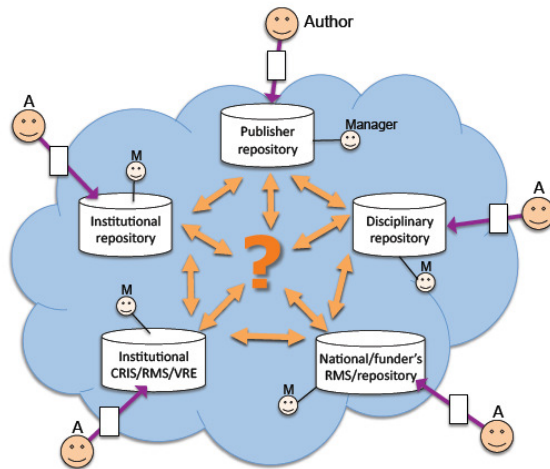
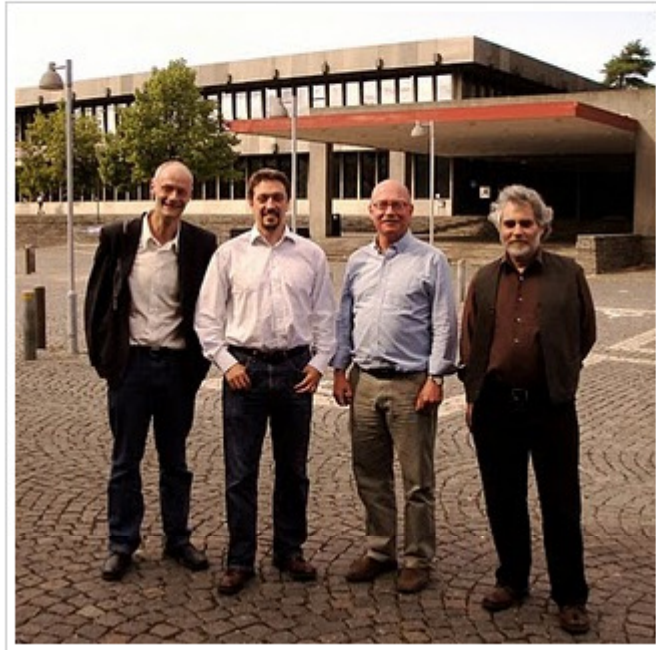


Figure 1.- Deposit usecases: Information exchange among diverse repositories

<http://sonexworkgroup.blogspot.com/>

## Workgroup members and affiliation



The Sonex workgroup at DTU Copenhagen, Aug 2009. Left to right:

**Pablo de Castro** (Chair) – Carlos III University Madrid (UC3M), Spain

**Jim Downing** – University of Cambridge, UK

**Mogens Sandfaer** – Danish Technical University (DTU), Denmark

**Peter Burnhill** – EDINA-University of Edinburgh, UK

## SONEX are...

As of Nov'09 the workgroup coordinator Pablo de Castro changed affiliation from Spanish National Research Council (CSIC) to Carlos III University Madrid, and **Richard Jones** (Symplectic Ltd) became a member of the group in Apr'10 replacing Jim Downing.



# SONEX vs DL.org approach

JISC

Scholarly Output Notification and Exchange  
(SONEX)

SONEX	DL.org
<b>Similarities</b>	
International in scope	
Building upon existing systems/projects	
<b>Differences</b>	
Pragmatic approach: characterizing an environment for running projects working on repository interoperability	Theoretical approach: DELOS DLMS reference model
Narrow scope: IR-based plus various deposit-driving stakeholders (publishers, CRIS, etc)	Wide scope: characterizing DLMSs from DL end-user, designer, administrator and developer perspective



# SONEX-DL.org cooperation: SONEX feedback on DL.org Cookbook

## **FIRST HALF: DL.org-related affairs**

### **Meeting objective**

SONEX proposed inputs (interop solutions) to DL.org Cookbook RFC version, <http://www.dlorg.eu/blog/?p=282>, described according to standard templates (Sword proposed as example, section 3.6.2.3)

SONEX interop solutions – preliminary proposals:

- 1 - Sword (enhancement of default description by DL.org)
- 2 - OA-RJ/PEER approach to publisher-repository interop
- 3 - CRIS/IR interop
- 4 - OA-RJ approach to R2R (IR2IR, IR2SR, SR2IR) interop
- 5 - Developer/vendor-repo interop (DepositMO)
- 6 - Reference manager (Mendeley) interop with repos (DURA)

Meeting main goal: to provide short description of such proposals based on the Sonex usecase scenarios as listed at “the Sonex paper”, ‘Handling Repository-Related Interoperability Issues: the SONEX Workgroup’, <http://e-archivo.uc3m.es/handle/10016/9257>, following DL.org-supplied template. In order to do that, we should start by updating the DL.org Sword description from <http://swordapp.org/> and then applying same criteria to briefly describe the rest of the SONEX proposals mentioned in previous paragraph. Usecase scenarios 2 to 4 are dealt with quite effectively in the SONEX paper, whereas 5 and 6 should be deeper worked out.



# How it all started: Institutional Repositories Workshop (IRW'09)

## International Repositories Workshop



Radisson SAS Hotel, Amsterdam  
16-17 March 2009

[Programme](#) | [Booking Form](#) | [Venue](#)

*"An international agenda for action on repositories infrastructure"*

### Background

Networks of open access repositories for research papers have been created in many countries and regions, and subject and funder repositories have been established that are both national and international. Examples include:

- [DAREnet](#) in the Netherlands
- UK Repositories Infrastructure
- [OA-Network](#) in Germany
- [Digital Repository Federation](#) in Japan
- [APSR](#) and [Arrow](#) in Australia
- [DRIVER](#) in Europe

The scope of these activities reflects typical funding streams for infrastructure. However, research is global, and any services for researchers that are likely to be acceptable need to be global. Hence there is a critical need to join up the repositories work across the world.

Presentations on the plans were made at the OAI6 workshop in Geneva 17-19 June, and the Powerpoint files are now available here:

[Citation services](#)  
[Interoperable identifiers](#)  
[Repository handshake](#)  
[Repository organisation](#)

# Repository handshake

last edited by Alma Swan 1 mo ago

Page history

## Repository Handshake – Extending An Open Hand Action Plan for International Coordination

See the [project blog](#) for news of developments.

### Document information

Version: 1.0

### Proposal

The scope of this activity/strand is broad, on all (digital) materials of scholarly interest but the focus is on research papers/articles. There is relation with the three other strands: a dependence upon that for identifiers (and other sources of authority); a response to the requirements of citation (and other services supported by repositories); the relation with the organisational framework is unclear at the time of writing. The overall time horizon is two to three years but this should be a multi-phase activity, with Phase 1 being rapid engagement over a six month period. The essential characteristic is that is international in scope, important both for understanding and securing agreement for enabling actions.

The 'handshake' is not just that of technical interoperability, it also requires understanding of variety of business processes (or domain specific workflows) which represent 'a deposit opportunity'. The metaphor of the handshake is used to motivate mutual expectation of benefit. The driver is on achieving more content, with better quality metadata (particularly that which covers identification and availability), in ways that make deposit easier and rewarding.

**Repositories are underpopulated!**



# The SONEX paper: deposit-related interoperability in a nutshell

## Handling Repository-Related Interoperability Issues: the SONEX Workgroup

Peter Burnhill<sup>1</sup>, Pablo de Castro<sup>2</sup> \*, Jim Downing<sup>3</sup>, Richard Jones<sup>4</sup>, and  
Mogens Sandfær<sup>5</sup>

<sup>1</sup> EDINA National Data Centre, University of Edinburgh, Edinburgh, UK

<sup>2</sup> Carlos III University Madrid, Leganés (Madrid), Spain

<sup>3</sup> University of Cambridge, Cambridge, UK

<sup>4</sup> Symplectic Ltd, London, UK

<sup>5</sup> Technical University of Denmark (DTU), Copenhagen, Denmark  
<http://sonexworkgroup.blogspot.com/>

**Abstract.** Sharing of scholarly content through a network of Open Access repositories is becoming commonplace but there is still need for systematic attention into ways to increase the rate of deposit into, and transfer of content across, the OA repository space. This is a report of the work of a small international group, supported by JISC, with remit to describe, analyse and make recommendations on deposit opportunities and use cases that might provide a framework for project activity geared to the ingest of research papers and other scholarly works. The multi-authored, multi-institutional work is put forward as the default, and nine use case actors are listed, as deposit agents, with four main use case scenarios. There is also some comment and pointers to projects in Europe which address some of these use case scenarios.

**Keywords:** repositories, interoperability, deposit, research output, CRIS, metadata

<http://hdl.handle.net/10016/9257>

## SONEX: not a *coding* project

### 4 Dealing with Use-Case Implementation: a Cooperative Strategy

SONEX workgroup tasks do rather relate to use-case analysis than to their technical implementation, the group having no specific assignment for developing further actions on implementation of selected use-cases. The alternative strategy for getting on with use-case development was to team up with projects or institutions already working on technical solutions for the scoped deposit opportunities.

# SONEX usecase-based interop analysis

Table 2. Repository handshake (actor-based) use-case scenarios

*Default content ingest: multi-authored, multi-institutional journal article*

**Use-case Actor 1:** Individual author/researcher

*Variant 1a:* where the author making the deposit is the PI of funder research project (need for compliance with mandate from funder to deposit)

*Variant 1b:* the author making the deposit is not the PI of funded research project but the work being deposited is associated with one or more funded research projects (and one or more PIs)

**Use-case Actor 2:** Depositor (not author) - Mediated deposit

*Variant 2a:* Mediated by an actor directly reporting to the author

*Variant 2b:* Mediated by another institutional agent - *eg* library

**Use case Actor 3:** Institutional/Departmental Research Support Systems (CRIS/RMS/VRE systems)

**Use case Actor 4:** Libraries

Potential depositors of their own resources and document collections

**Use case Actor 5:** Repository Manager (RM) of an IR, wishing to be notified and obtain copy from a subject (SR) or institutional repository (IR)

*Variant 5a:* Search of SR1 (and many such subject repositories) hoping to obtain a document set of works relating to authors at their institution, either to extract metadata with links to full content, or to harvest that content

**Note.-** RM (SR1) could notify RM (IR1) [maybe broadcast to many RM(IR<sub>j</sub>)] that s/he has works for Institution j

*Variant 5b:* Search of IR2 (and IR-many) hoping to obtain a document set of works relating to authors at their institution, either to extract metadata with links to full content, or to harvest that content

**Note.-** Notification to RM(IR2) [maybe broadcast to many RM(IR<sub>j</sub>)] that s/he has works for Institution j

**Use case Actor 6:** Publisher

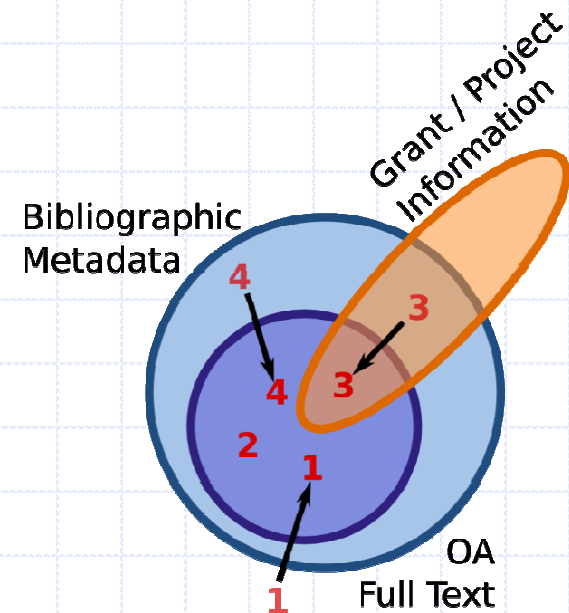
Publishers assisting with:

- OA deposit of the author's final copy (PEER project)
- OA to published copy
- Supply of pointers (DOIs)

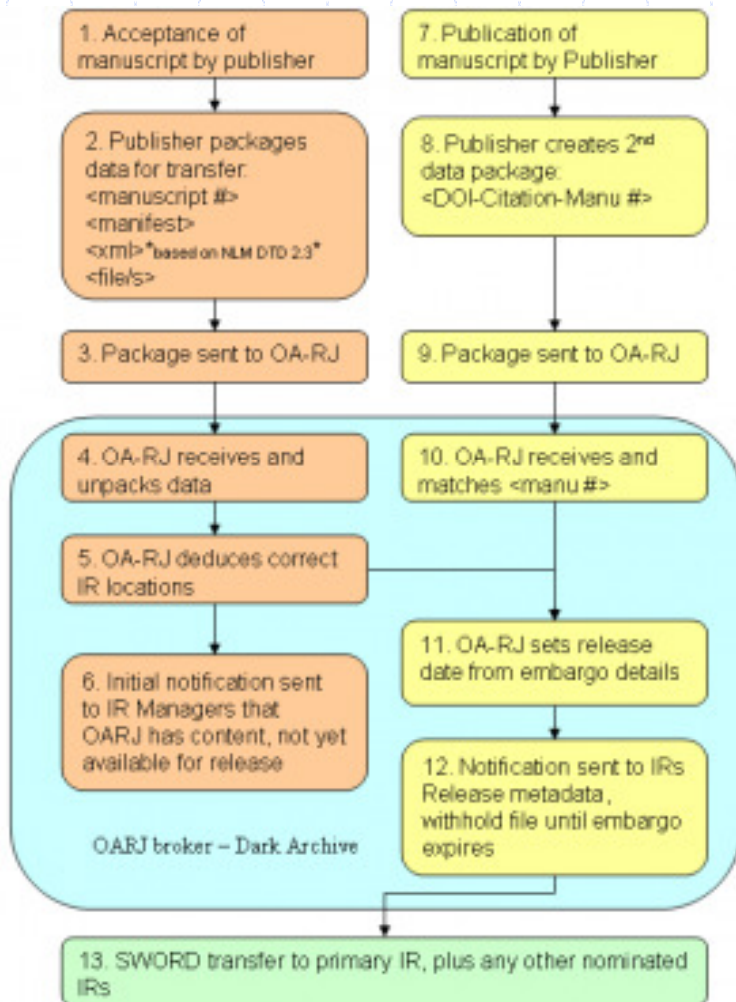
**Use case Actor 7:** Developer/vendor of authoring software

**Use case Actor 8:** Repository software developer/vendor

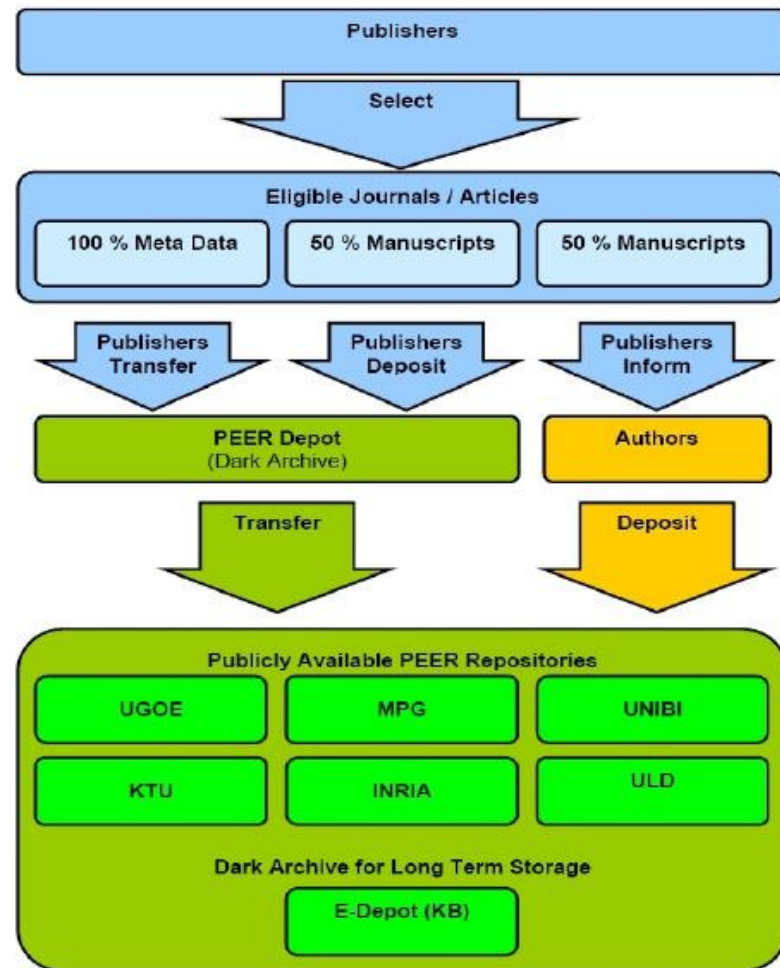
**Use case Actor 9:** Funding bodies/Policy bodies/Repository community



# SONEX usecase scenario I: publisher-driven deposit



**OA-RJ workflow**



**PEER workflow**

# SONEX usecase scenario I: publisher-driven deposit

about us

for authors

publishing services

media information

press center

for libraries

Subscription products  
Pricing  
Free trials  
Promotional resources  
About Membership  
**Automated Article-Deposit**  
Open Access journals  
Link/catalog/index/  
archiving  
Advocacy  
Contact us  
News and updates  
Conferences  
FAQ  
Useful links

Search info pages

[Go!](#)

## Automated Article-Deposit

BioMed Central is committed to providing immediate and barrier-free access to all the research they publish. We work with many institutes around the world that advocate open access to their intellectual output and help them to make the most of an integrated OA policy, involving both open access publishing and policies encouraging or mandating open access deposit.

Repositories are now rapidly gaining pace as institutes start to feel the benefits that they bring, although many organizations find populating their repositories a challenge. BioMed Central's Automated Article-Deposit helps institutes populate their repositories remotely with the SWORD (Simple Web-service Offering Repository Deposit) protocol.

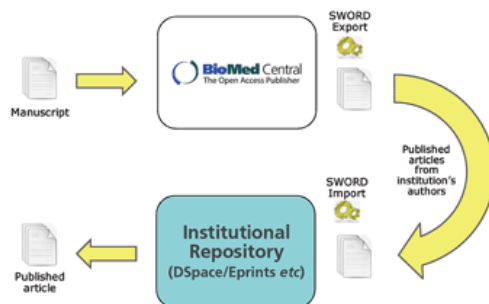
### What is SWORD?

The SWORD vision is 'lowering the barriers to deposit'. BioMed Central's Automated Article-Deposit is a standard protocol for transferring complete article content (including PDFs, additional files, and article metadata) from one repository to another.

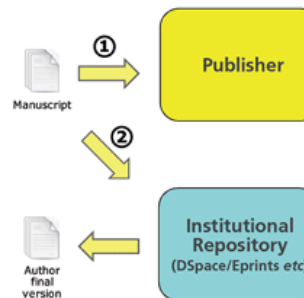
### How does BioMed Central's Automated Article-Deposit work?

As soon as the official final version of an article is published in a BioMed Central journal, we will automatically populate the author's institutional repository with the published article. (Articles are transferred on a nightly basis.)

### Automated IR deposit via SWORD



### Manual deposit in IR



## SONEX usecase scenario II: CRIS/IR integration

+

Motivation: Enable broad collaboration in the information management of research publications

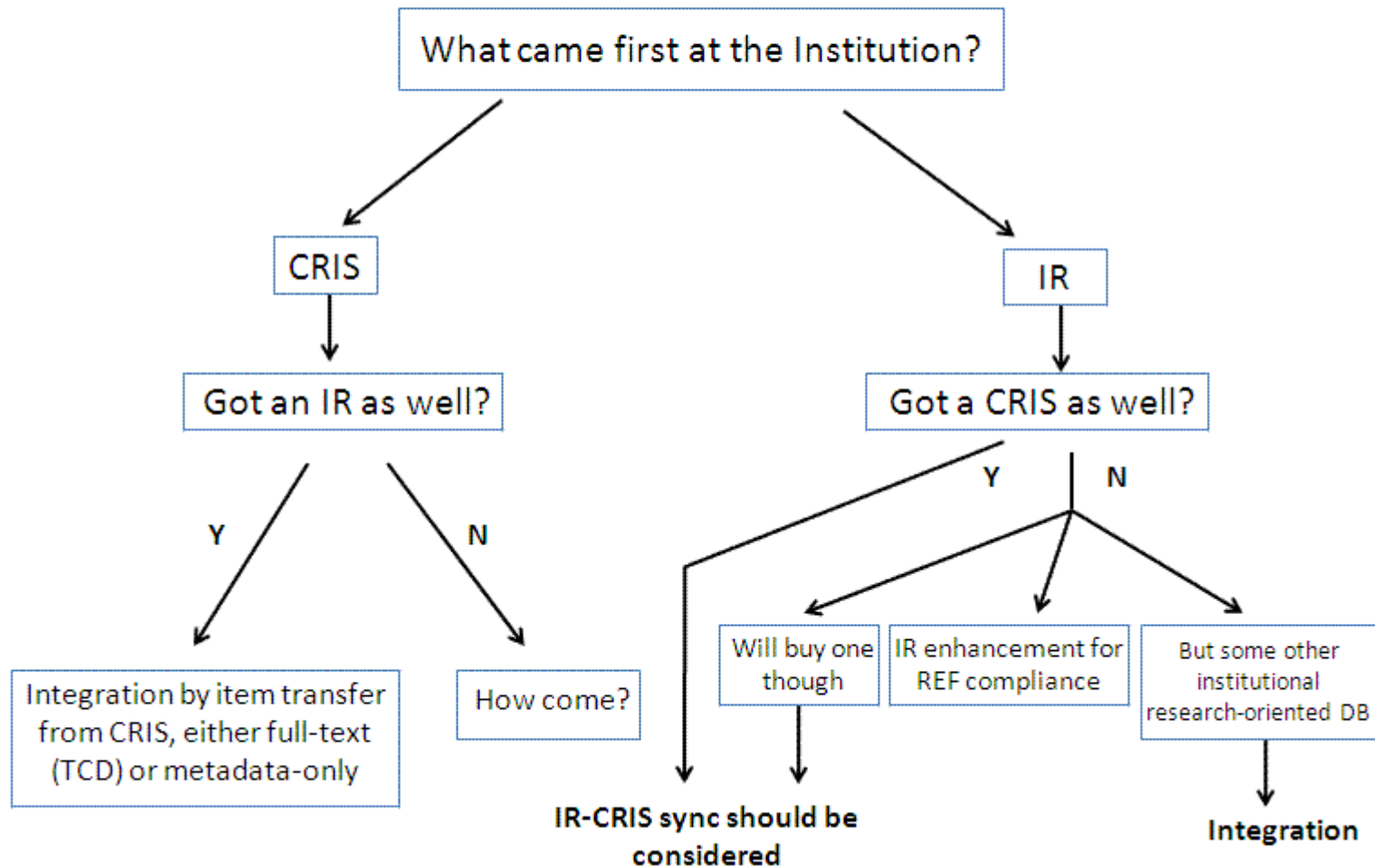


- If **CRIS** and **OAR** easily could exchange metadata about publications, they could support each other
- But **CRIS** and **OAR** have grown out of different communities and have developed rather different approaches to publication metadata
- If a university has a **CRIS** and an **OAR**, generally a publication must be registered twice to comply with both systems' requirements
- Both **CRIS** and **OAR** strive to be complete in their coverage of publications – both would benefit from collaboration – not to mention the authors/researchers.

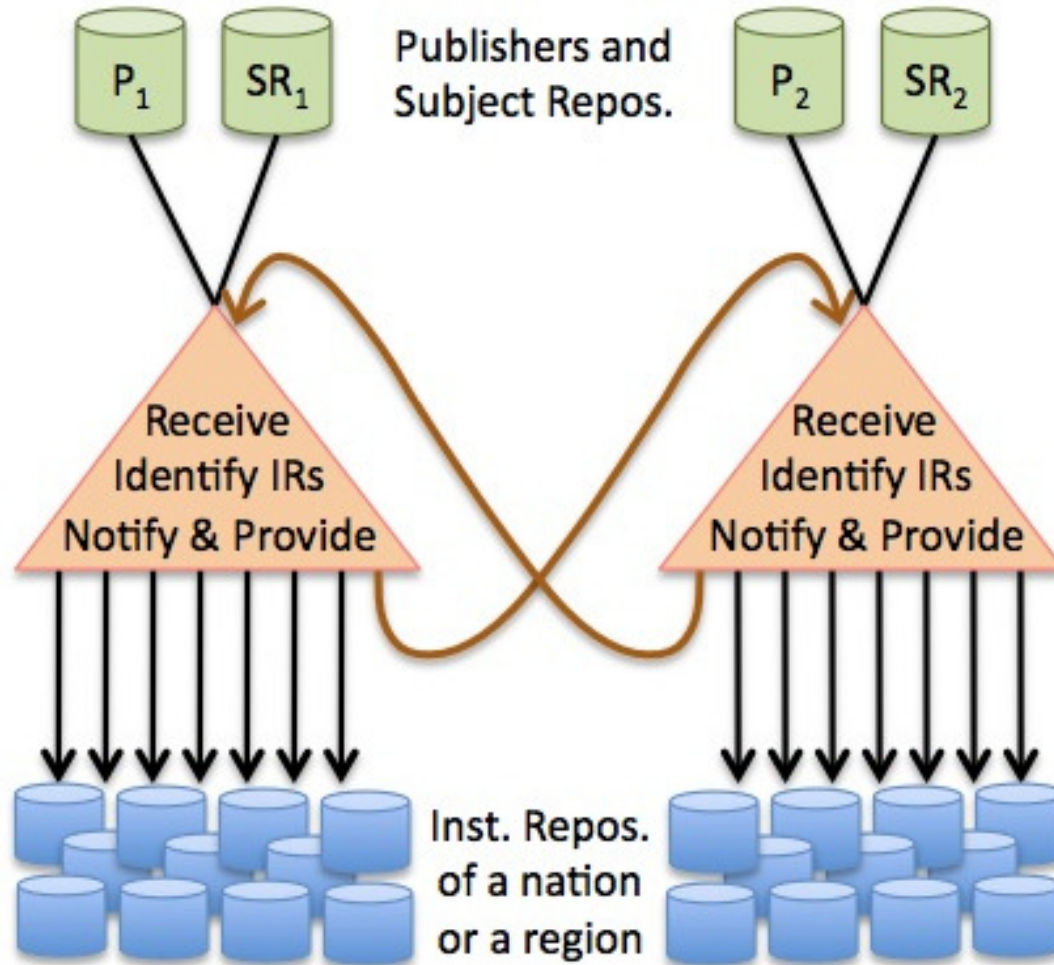
(from: "KE CRIS-OAR [publication metadata] interoperability project" [presentation](#), CRIS2010 Aalborg, Denmark, June 2-5, 2010)

# SONEX usecase scenario II: CRIS/IR integration

## R4R & CRIS-IR implementation possibilities



## SONEX usecase scenario III: Funder-mandated deposit





# SONEX usecase scenario IV: Deposit via personal software

## Modus Operandi for Repository Deposits

Making it easy for you to create something digital and put it in a repository

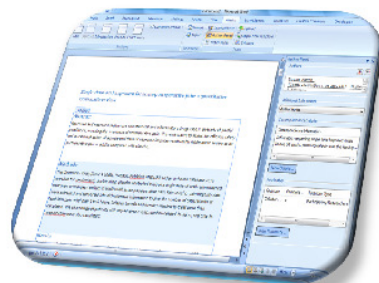
Log In

### Specifying user requirements: workflow to deposit use cases

What came first, the chicken or the egg? Or in the case of a technical project such as this one, who came first, the developer or the user? In my experience, working in a computer science group that produces an unending stream of talented developers, it's invariably the former. In a twist on this theme, here we seek to inform the design and requirements collection for enhancing repository deposit by working with users, content creators such as scientists, and content curators such as repository managers.

#### Article Authoring Add-in for Word

This add-in for Word enables authors and editors to save Word files in the National Library of Medicine's NLM DTD (article or book) format, which is used for publishing and archiving. In addition, the add-in enables more metadata to be captured and stored at the authoring stage and enables semantic information to be preserved through the publishing process, which is essential for enabling search and semantic analysis once the articles are archived within information repositories.



#### About Modus Operandi for Repository Deposits

DepositMO is a JISC project creating a repository deposit workflow connecting the user's computer desktop, especially popular apps such as MS Office, with digital repositories based on EPrints and DSpace. DepositMO involves teams from the University of Southampton and Edinburgh University, and will liaise closely with Microsoft. The project runs for 1 year to end June 2011.

Tag #depositmo

Find [DepositMO on Slideshare](#)



#### Tags

case studies depositmo funding jisc  
jiscdepo project plan  
swordv2 technical advisory panel  
the sword course website

# SONEX usecase scenario V ?: Research data & datasets

SUNDAY, 12 DECEMBER 2010

A preliminary list of discipline-specific projects on research data management

A preliminary list follows of currently running **discipline-specific projects and initiatives** (as of Dec 2010) dealing with research data management. The list below is not comprehensive,



**DataCite**  
A global  
registration  
agency for  
research  
data.



Illustration: gluekit

## Some questions on research data management

- **Are IRs a proper target for research data deposit?**
- **Could Sword deal with data transfer?**
- **Available workforce for dealing with data management: is it big enough? Trained enough?**
- **Research data file sizes: should deposit by reference be considered instead/besides binary data transfer?**
- **At what point along the publication lifecycle should dataset deposit take place?**

<b>Open Access Repository Junction (OA-RJ)</b>	EDINA	UK	Theo Andrew & Ian Stuart (EDINA)
<b>SWORD Project</b>	UKOLN/JISC	UK	Adrian Stevenson (UKOLN), Julie Allinson (U York)
<b>York Digital Library - Integration for the Next Generation (YODL-ING)</b>	University of York/University of Leeds	UK	Julie Allinson (University of York)
<b>PEER Project</b>	STM-Assoc/ESF/Max Planck G/UGöttingen/INRIA/SURF/ UBielefeld	EU	Julia Wallace (STM)/Foudil Bretel (INRIA)
<b>EasyDeposit – SWORD deposit tool creator</b>	University of Auckland	NZ	Stuart Lewis (U Auckland)
<b>BMC Deposit into DSpace@MIT</b>	BMC/MIT	UK/US	Matthew Cockerill (BMC)
<i>National &amp; Institutional CRIS/IR</i>			
<b>CRIS/OAR Interoperability Project</b>	KE/DTU	DK	Mikael K. Elbæk & Mogens Sandfær (DTIC)
<b>TDC Systems Integration</b>	Trinity College Dublin	IE	Niamh Brennan (TCD)
<b>Enrich: Repository and Research System</b>	University of Glasgow	UK	William Nixon (U Glasgow)
<b>Integration</b>			
<b>CRISPool</b>	University of St. Andrews	UK	Anna Clements (U St. Andrews)
<b>CCLRC Corporate Data Repository (CDR)</b>	Council for the Central Laboratory of the Research Councils	UK	E. Grabczewski (CCLRC)
<b>NARCIS</b>	Royal Netherlands Academy of Arts and Sciences (KNAW)	NL	Elly Dijk (KNAW)
<b>U-GOV</b>	CINECA Consorzio Interuniversitario	IT	Nicola Bertazzoni (CINECA)
<b>FRIDA</b>	University Centre for Information Technology (USIT-UiO)	NO	G. Christina Lingjærde, Andora Sjøgren (UOslo, UiO)
<b>Aramis</b>	State Secretariat for Education and Research (SER)	CH	Beat Sottas (SER)
<b>RCAAP/DeGóis Integration</b>	UMIC/FCCN/FCT	PT	Eloy Rodrigues (UMinho)
<b>SEMAT</b>	Iranian Research Institute for Inf. Sc. & Tech. (Irandoc)	IR	Omid Fatemi (Irandoc)
<i>Commercial initiatives</i>			
<b>Article Authoring Add-in</b>	Microsoft Research	US	Lee Dirks/Alex Wade (MS Research)
<b>Repository tools</b>	Symplectic Ltd	UK	Richard Jones (Symplectic Ltd)
<b>Pure</b>	Atira	DK	Bo Alroe (Atira)
<b>Converis</b>	Avedas	DE	Rudolf Weiss (Avedas)
<b>Enovation Solutions</b>	Enovation	IE	Gavin Henrick (Enovation)

**'A summary of ongoing deposit-related projects', <http://bit.ly/c60Ci5>**

# JISC Deposit Call (Mar'10): SONEX role as 'provider of deposit wider picture for selected projects'



[Home](#) » [Funding](#) » JISC Grant Funding Call 2/10: Deposit of research outputs and Exposing digital content for education and research



## JISC Grant Funding Call 2/10: Deposit of research outputs and Exposing digital content for education and research

The Joint Information Systems Committee (JISC) invites institutions to submit proposals for projects in the area of the Information Environment.

### **Strand A – Deposit**

Ensuring take-up of solutions that enable and encourage author deposit of Open Access research outputs into repositories by embedding deposit into research or related practice.

Total funds: £750,000. Up to 5 projects will be funded. Maximum funding for any one project is £300,000.

### Summary

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#### **Submission Deadline**

20 April 2010 12:00

#### **Funding**

Various levels - see full Grant Funding Call

#### **Committees**

[JISC Infrastructure and Resources Committee](#)

#### **Topic**

[Digital Repositories](#)

[Open Technologies](#)

[Research & Innovation](#)

[Web 2.0](#)

#### **Strategic Themes**

[Information Environment](#)

# First selected projects at JISC Deposit Call (Jul'10)

MONDAY, 19 JULY 2010

## First projects selected at jiscDEPO call

Some selected bids for [JISC Deposit Call](#) (tagged as jiscDEPO) on "Deposit of research outputs and Exposing digital content for education and research" were announced along the Open Repositories 2010 Conference held in Madrid from Jul 6-9th. The jiscDEPO call was released last Mar 9th and according to its timeline, all selected projects should already be running (their estimated start due June 2010).

Following projects have been selected at the jiscDEPO call as of today - with some extra one still to come:

- **DepositMO: Modus Operandi for Repository Deposits.** Developed by teams from the University of Southampton (Lead Institution) and Edinburgh University, and with a close liaison with Microsoft, the DepositMO projects aims to create a repository deposit workflow connecting the user's computer desktop, especially popular apps such as MS Office, with digital repositories based on EPrints and DSpace. A first [DepositMO presentation](#) was delivered by David Tarrant (U Southampton) at OR2010.

## DepositMO opens at OR2010 in Madrid

"Changing the culture, embedding deposit into the natural everyday workflow"

"#depositMO looks like a really exciting project"

DepositMO made its debut on the international stage at the *Open Repositories 2010* conference in Madrid, from 6-9 July. Below is the slideshow and the Twitter commentary that accompanied the presentation.

A copy of the [related short paper](#) is available from the conference site. Original [source materials](#) are collected in our own digital repository, ECS EPrints at the University of Southampton.

**JISC PROJECT** UNIVERSITY OF Southampton

**#depositmo**  
Interactive Multi-Submission Deposit Workflows for Desktop Applications

David Tarrant  
davetaz@ecs.soton.ac.uk  
Electronics and Computer Science

menu twitter share email 1 / 21 view on slideshare

# First selected projects at JISC Deposit Call (Jul'10)

- **RePosit: positing a new kind of deposit.** The RePosit Project seeks to increase uptake of a web-based repository deposit tool embedded in a researcher-facing publications management system. Institutions involved in RePosit are University of Leeds (Chair), Keele University, Queen Mary University of London, University of Exeter and University of Plymouth, with close connection to Symplectic Ltd as commercial partner.
- **DURA: Direct User Repository Access.** The DURA project, lead by the University of Cambridge with Mendeley Ltd and Symplectic Ltd as consultant firms, aims to embed institutional deposit into the academic workflow at almost no cost to the researcher, by using Mendeley and Symplectic tools to allow researchers to synchronise their personal research collections with institutional systems.

The Sonex workgroup will be supplying its conceptual framework on deposit usecases to these projects and contributing to their coordination via the jiscDEPO project blog planet to be available shortly.



## 1. Getting Started

Learn how the API works with our detailed documentation.



## 2. Register an app

Register your application online, and start building and testing it.

Mendeley has recently released its Open API! [Register an application](#) to start

# Ongoing projects at JISC Deposit Call (jiscDEPO blog planet)



The jiscDEPO project is a kind of 'meta' project that lists several projects working in the area of Deposit solutions.

[Project Home](#) [Downloads](#) [Wiki](#)

[Summary](#) | [Updates](#) | [People](#)

## Overview of jiscDEPO Projects

### Institutional Projects Embedding Deposit Processes and Tools

- [jiscdura](#)
- [reposit](#)
- [depositmo](#)

### Infrastructure Deposit Projects (Core Deposit Tools)


- [swordv2](#)
- [OARJ](#)

### Synthesis Project Collecting Deposit Use Cases (Core Deposit Processes)

- [sonex](#)

## jiscDEPO project blog planet

List of jiscDEPO project blog posts and other commentary from around the Web below ([please subscribe to the RSS Feed here](#)):

JISC Scholarly Output Notification and Exchange (SONEX) 

JISC DURA The blog of the JISC funded DURA project

Modus Operandi for Repository Deposits Making it easy for you to create something digital and put it in a repository

RePosit: positing a new kind of repository deposit

OA-RJ Open Access Repository Junction

**Deposit Projects Meeting, Birmingham, Mar 1st – DepositMO, JISCDura, RePosit**



## SONEX current tasks

- Widening deposit use-case analysis in cooperation with selected projects at JISC Deposit call: further use-case scenarios, more digital object types (beyond research papers – Sword v2)
- Analysis on research data management from JISCMRD environment
- Providing support to selected projects at JISC Deposit call
- Gathering information on new & ongoing deposit-related projects and initiatives, [http://sonexworkgroup.blogspot.com/2010/05/summary-of-ongoing-deposit-related\\_9901.html](http://sonexworkgroup.blogspot.com/2010/05/summary-of-ongoing-deposit-related_9901.html)
- Dissemination of initiative for potential intl cooperation: [OpenAIRE](#), [DL.org](#)

MONDAY, 24 MAY 2010

### A summary of ongoing deposit-related projects

Project name	Institutions/ Organisations	Country (ies)	Contact person
<b>Publisher-driven initiatives</b>			
PEER Project	STM-Assoc/ESF/Max Planck G/UGöttingen/INRIA/SURF/ UBielefeld	EU	Julia Wallace (STM)/Foudil Bretel (INRIA)
Open Access Repository Junction (OA-RJ)	EDINA	UK	Theo Andrew (EDINA)
BMC Deposit into DSpace@MIT	BMC/MIT	UK/US	Matthew Cockerill (BMC)
<b>National &amp; Institutional CRIS/IR integration initiatives</b>			
NARCIS	Royal Netherlands Academy of Arts and Sciences (KNAW)	NL	Elly Dijk (KNAW)
Enrich: Repository and Research System Integration	University of Glasgow	UK	William Nixon (U Glasgow)

# Digital Libraries & Open Access

"Digital Libraries & Open Access. Interoperability Strategies"

4 February 2011, The British Academy - London, UK

## Acknowledgements

It is time now to re-visit and update our use case framework in the light of these new projects and with more than just research papers in mind. For this we need feedback and criticism, and would welcome both.



### Acknowledgements

Members of the SONEX workgroup are grateful to the Joint Information Systems Committee (JISC) for support. In particular, thanks are due to Neil Jacobs and Andrew McGregor for their cooperation and guidance.

More info on Sonex: <http://sonexworkgroup.blogspot.com/>

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