

# ICT Forum

## Michaelmas Term 2011

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### Report from the Bodleian Libraries

#### BDLSS

Hopefully this shouldn't be news to anybody, but as we haven't previously announced it through this forum, it should be noted that effective from the 1<sup>st</sup> June 2011, Systems and e-Research Service (SERS) and the Oxford Digital Library (ODL) have merged to form a new department; Bodleian Digital Library Systems and Services (BDLSS).

More information can be found on the BDLSS website <http://www.bodleian.ox.ac.uk/bdlss>, including an outline of the BDLSS structure in the section "What We Do".

#### The New ILS

In July this year, for the first time in 15 years, the libraries successfully implemented a new Integrated Library System (ILS). This followed the completion of an 18 month implementation project and included the successful migration of 7.2 million bibliographic records, 13 million+ item records and 92k+ reader records. Preparation for the implementation included training over 460 members of staff and putting in place the configuration for 90+ libraries.

The most obvious changes with this implementation are:

- Staff access the system through a Windows client
- There is no longer a separate web OPAC (see the update on SOLO below)
- Stack Management is simplified and much more closely integrated with standard circulation operations

The team have been working hard to help staff as they familiarise themselves with a new system and to iron out the inevitable teething issues with an implementation on this scale.

Attention is increasingly turning to Phase II of the ILS implementation which will run until mid-2013. This will encompass a number of enhancements, made possible through the move to a fully supported platform. Candidates for enhancement include:

- Extension of the reporting capabilities currently offered by the ILS
- Introduction of a scan on demand facility for the scanning and electronic delivery of items held in the Book Storage Facility
- Migration of other catalogues onto the new ILS (e.g. Allegro Chinese)

#### SOLO

With the implementation of the new ILS, Solo now provides the sole public interface to Oxford's union library catalogue. The new ILS enabled the introduction of OPAC via Primo (OvP) functionality which means that Solo no longer has to pass the user through to a separate OPAC when querying the locations

and availability of items, but is able to provide all of this information through the Solo interface. It also enables the full set of patron functions (managing loans, holds, renewals etc.) to be managed through Solo.

The Solo interface is subject to continual review and incremental improvements. The launch of the ILS, with its support for Unicode has enabled improved handling of diacritics and we have recently implemented a date-oldest sort for result lists.

## Barcoding Project

BDLSS support to this project is now drawing to the close and will complete by the end of the year. The final material has now been removed from Nuneham Courtenay and only a few more deliveries of material from Iron Mountain remain.

## Digital Initiatives

This autumn BDLSS was awarded funding for a number of new projects:

### Broadside Ballads

JISC funding was awarded this autumn for the 18-month Broadside Ballads project which will create a union catalogue using linked data from Oxford, English Broadside Ballads Archive at UofCSB and Vaughn Williams Memorial Library. The aim is to cluster and enrich ballad resources at several descriptive and interpretive levels and incorporate image search. A new developer will be recruited for this project in early 2012. More information will be made available as the project progresses

<http://ballads.bodleian.ox.ac.uk/>.

### DaMaRO

The Data Management Rollout at Oxford (DaMaRO) Project is creating a research data management policy for the University and the infrastructure to enable researchers to comply with it. BDLSS is working with OUCS to take the outputs of the various research data management projects that the University has been engaged in over the last few years (such as Admiral, Dataflow, Sudamih, VIDAas and ORA) and combine them into a better-integrated suite of tools and discovery mechanisms that will support researchers throughout the data life-cycle, from planning to re-use. Behind the scenes, the DataFinder tool will be able to automatically gather metadata from each of the tools and repositories it connects to, assign Digital Object Identifiers (DOI) where desirable, and ensure that the metadata complies with the national DataCite standards. Furthermore, DataFinder will make the metadata it gathers available as linked data, and also map it to the CERIF standard, so that appropriate alerts can be issued to compatible research management systems. <http://damaro.oucs.ox.ac.uk/>

### Digital.Bodleian

The Bodleian Libraries has been awarded a grant from JISC, under their Resource Discovery programme, for a project called Digital.Bodleian. The goal of Digital.Bodleian is to aggregate and open up, through both a graphical user interface and through open linked data, the Bodleian Library's substantial collection of digital assets. In line with the Resource Discovery Taskforce vision of making collections open and useable to both people and machines, our goals are:

- 1) To bring all of our historical digital content up to date and in line with the RDTF vision by enriching the metadata, mapping it to RDF and the images to jpeg2000;
- 2) To aggregate all of this digital content into a single object store with both an OAI-PMH handle and

a RESTful interface for accessing the open linked data; and  
 3) To provide a unified user interface that will allow students, scholars, and the general public from around the world to search and browse within discrete curated collections, but also across the entirety of the content.

### **SoftwareStore/SearchResearch**

ISIS Innovations and the Bodleian Libraries have been awarded internal funds from the EPSRC Pathways to Impact grants to jointly create a 'first release' of two tools - SoftwareStore and SearchResearch. Both of these tools will aim to provide a proof of concept to help gain further funding to develop tools for University-wide use. SoftwareStore, based on our DataBank repository, will provide for the storage and dissemination of software code developed by Oxford researchers and which exploits new technologies to support increased impact. SearchResearch will provide a search tool which will focus on Oxford University researchers and their research activities. The service will be freely available for internal and external users - for example, internal departments, Research Services, Press Office, and external entities such as funders, commercial concerns or policy makers. For a demonstration see

<http://research.bodleian.ox.ac.uk/>

The following projects continue to progress:

### **Europeana Libraries**

In collaboration with 25 other research libraries from 11 countries, work carries on to expose our public domain digitised content via Europeana (<http://www.europeana.eu/>) – this will include several hundred thousand digital images, and metadata for all the items scanned in collaboration with a number of Bodleian digital projects including Google Books.

### **Google Books**

Thanks to the generosity of an external donor, BDLSS now has the resources to undertake the mass ingest into the DAMS of Oxford's own copy of all the books that were scanned during the first phase of the Bodleian's collaboration with Google. John Pilbeam joined the team in September as new the DAMS Software Engineer for this project. An initial tranche of c.359,000 items – some 19Tb of data – have been retrieved and stored in the Bodleian's secure, digital preservation infrastructure, and work has begun to convert the raw data into file formats more suitable for online delivery. Within the last few months, John has developed scripts to enable the mass-production of PDF files, and a small set of digitised books have been exposed as part of an initial pilot in SOLO.

### **Purl.ox.ac.uk**

As increasingly large volumes of material move online there is a need across the University for a Persistent URL service so that published material can be given permanent online identifiers that can be maintained across organisational and systems changes. BDLSS has been granted permission to set up the Persistent URL service for the University at [purl.ox.ac.uk](http://purl.ox.ac.uk). Such a service will be hugely valuable and a logical adjunct to the many Bodleian digital projects and it will be piloted first on projects such as Google Books, ORA, Databank, and the upcoming DataFinder, and will be rolled out to the University in 2012 to provide services that support the dissemination of Oxford's research output.

### **Music and Maps Catalogues Conversion**

In June, the Bodleian was informed that it had secured \$492,794 funding from the Andrew W Mellon Foundation for a two year project (Aug.11-Jul.13) to undertake the retro conversion of the Music and

Maps card catalogues, currently only accessible within Duke Humfrey's. This will entail the scanning, rekeying, and online delivery via SOLO of the data held on an estimated 536,400 cards.

### **IMPACT**

IMPACT is a 5-year ERC funded project which will make accessible 13-16th century Islamic intellectual history in collaboration with the Oriental Institute. <http://impact.orient.ox.ac.uk/> Development work began on this project in October and it will build on the huge amount of software development that was carried out for the Cultures of Knowledge/Early Modern Letters Online project which has its formal launch this Friday.

### **Dataflow**

The JISC-funded Dataflow project is being carried out in collaboration with David Shotton and his team in Zoology. It will include the development of virtualized cloud-based research management services building on the BDLSS data repository Databank to serve the 'long tail' of research datasets of small to moderate size. <http://www.dataflow.ox.ac.uk/>

### **What's the Score at the Bodleian**

The principal aim of this Google-funded project is to increasing access to music scores from the Bodleian's collections. This is to be achieved by a combination of rapid digitisation and the creation of descriptive metadata through crowd-sourcing. The main body of material selected for the initial phase of this project comprises of 64 boxes of piano music, mostly sheet music from the period 1860-1880 which includes dance music and other pieces designed for home entertainment, many with illustrated covers. A custom search interface is being developed by BDLSS and data from the Zooniverse crowd-sourcing aspect of the project will feed back in to enrich the collection metadata.

<http://www.bodleian.ox.ac.uk/bodley/library/special/projects/whats-the-score>

### **ORA (Oxford University Research Archive)**

The ORA search and access interface has been re-designed. This has not only involved a total re-design of the display, but also an overhaul of the code and item types underneath. This will streamline the service. New features are the display of 'top downloads' on the home page, faceting for better searching and display of icons to indicate whether a record includes access to a local full text copy in ORA and/or a link to the publisher's copy (via DOI). The new design is still on the restricted access development server at <http://oradev.bodleian.ox.ac.uk/> but will be going live in January. The reason for the delay is because of the transfer to the live service, coupled with an upgrade to the OAI-PMH feed for metadata harvesting by other services. Optimization for mobile devices will be undertaken as Phase 2 of this project when additional funds can be obtained.

*Andrew Bonnie, BDLSS, 13<sup>th</sup> December 2011*