The International e-Depot

e-Journal Archiving at the national library of the Netherlands

Erik Oltmans
Head, Acquisitions & Cataloguing Division
National Library of the Netherlands

E-Journal Archiving and Preservation Workshop

British Library, March 27th, 2007
Overview

1) Setting and Scope
   - Koninklijke Bibliotheek
   - History of the e-Depot
   - System characteristics
   - Scale

2) Archiving e-journals: The KB Business Model
   - Identifying and addressing risks
   - Trigger Events
   - Who are we serving?
Setting and Scope
Governance, funding, organizational structure

- Koninklijke Bibliotheek
  - Medium-sized national library, founded in 1798
  - Financed by Ministry of Education, Culture and Science
  - Annual budget € 50 million, 270 fte

- Digital archiving and R&D Permanent Preservation:
  - € 1,1 million structurally allotted to staff, system maintenance
  - € 1,2 million permanently dedicated to research
  - Research funding increases every year

- Digital archiving and preservation embedded in organization
- Departments: e-Depot, Digital Preservation, IT
History of the KB e-Depot

- 1993: Decision to start e-Depot
- 2002: Landmark archiving agreement with Elsevier

- More archiving agreements:
  - General agreement Dutch Publishers Association (updated 2005)
  - IOS Press (2007)
The e-Depot system

- Experiments with AT&T, IBM from 1995-2002
- DIAS: OAIS-compliant, developed with IBM, implemented in 2002
- Integrated with other library modules

- Functionalities:
  - Ingest of e-journals, e-books, digitized publications, and CD-roms
  - Authentic publications archived, standard formats (PDF, XML)
  - Automatic validation (checksum, JHOVE), error handling
  - Metadata conversion
  - Batch delivery
  - Web archiving
The KB e-Depot

Scale

Volume

- 11 million e-publications (PDFs, based on current agreements)
- 10 million digitized publications to be expected (TIFFs)

Size

- 1 PDF equals 1 Mb on average: 11 terabyte e-publications
- 1 TIFF equals 200 Mb on average: 200 terabytes TIFFs

Capacity

- e-publications: 50,000 objects ingested per day
- TIFFs: ?
Archiving e-Journals:
The KB Business Model
The KB Policy: identifying risks

No obvious guardian for international publications

- Who ensures long-term accessibility of international e-Journals?
- Most current e-Journals lack a natural a fatherland
- Geographic model not sufficient for systematic approach
- Risk of information getting lost forever

Disrupted Access

- Calamities damaging publisher’s services
- Withdrawal of publications, journals (commercial motivation)
- No successor

Technological Obsolescence

- Inaccessible file formats
The KB Policy: addressing risks

- Publishers are unlikely to deposit at large number of places
- Spread the (geopolitical) risk and identify trustworthy partners
- Collaboration and coordination
- Centers of expertise may emerge: the Safe Places Network

- Safe Places Network secures systematic, coordinated preservation
- In case of loss, libraries know where to go
- Permanent archiving calls for
  - Substantial investment
  - Permanent commitment
  - Continuous efforts and permanent R&D
Research Libraries, End Users

Publishers

Disrupted Access

Obsolescence

Publications without natural fatherland

National Libraries
Research Libraries, End Users

Trigger Event

Insurance, Interim Service, Permanent Access

National Libraries / Safe Places

Publishers

Archiving Agreement
Who are we serving?  Designated Community (I)

Libraries, end users

- The e-Depot is a safe place for the scientific community
- On site access for KB visitors, ILL supply within the Netherlands
- Exceptional use: Trigger events cause broader access
- If a publisher stops making journals available: Open access to all
- In case publishers cannot meet obligations: Part of interim service
**Who are we serving?**  Designated Community (II)

**Publishers**

- The e-Depot is a safe place for the scientific community
- Additional service for publisher’s customers
- e-Depot access does **not** compete with publisher-provided access
- Retrieval, access, printing, downloading *for private use only*
- Systematic reproduction is not allowed
- COUNTER compliant

**Cost Model**

- Eventually, preservation and archiving costs will be part of licensing fees
Summary

- E-Journals: range of possible disruptions

- E-Journals must be preserved by institutions who take responsibilities;

- Systematic and coordinated by means of Safe Place Network

- KB is committed to be part of the Safe Places Network: substantial R&D, permanent commitment

- The ultimate business model requires cooperation
Contact:

erik.oltmans@kb.nl

www.kb.nl/e-Depot