OCLC Initiatives

Tools and Registries for Cooperative Development of Next Generation Library Services

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Klantendag Amsterdam 12 September 2007

At the heart of your information
Agenda

• Vision, Mission and Strategy
  – Current environment
  – OCLC data resources

• Examples
  – Discovery
  – Delivery
  – Data Contribution

• Developer Network

• Conclusion
OCLC will be the leading global library cooperative helping libraries serve people by providing economical access to knowledge through innovation and collaboration.

OCLC exists to further access to the world's information and reduce library costs by offering services for libraries and their users.
The WorldCat Grid comprises Union catalogues, including WorldCat, and associated registries (describing library business resources), common application components which automate business processes, and are available to the OCLC service environments, and network interface services which expose functionality for ready reuse by partners and for integration between local, group and global.
Local, Group and National Catalogues

• **Significant contributions to WorldCat by major independent catalogues:**
  - Australia, Czech Republic, Denmark, Finland, Germany, New Zealand, Poland, South Africa, Sweden, United Kingdom ++

• **Mutual Benefits**
  - WorldCat is more comprehensive
  - Library resources are better exposed through a web scale site
  - OCLC provides catalogue enrichment services, software components, developer network

• 14 million referrals a month

• 1 million a month from Google Books
### Data Resources: Search, Present, Select

<table>
<thead>
<tr>
<th>Bibliographic Data Authority data</th>
<th>Contributed data</th>
<th>Mined data</th>
<th>Other harvested data</th>
<th>Articles</th>
<th>Social data</th>
<th>Links</th>
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<tr>
<td></td>
<td>* direct members *</td>
<td>* audience level *</td>
<td>* TOC *</td>
<td>over 30 million</td>
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<td></td>
<td></td>
<td>* fiction finder *</td>
<td>* circulation data *</td>
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</tbody>
</table>

add online, add in background, upload / harvest, modify / enhance, download, feeds

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p.s. now over 88 million records
65 and 66 millionth added by Leiden U & Arnhem Public,
72-76 millionth by DNB
Data Resources: Locate and Deliver

- Bibliographic Holdings data
- Knowledge Base Database Sources
- Library Registry
  - services
  - policies
  - resolvers
  - OPACs
  - addresses
- Copyright Registry
- Registry of digital masters

- add online, add in background, upload / harvest, modify / enhance, download, feeds
- enquire online / enquire by program
WorldCat Grid – Principles

- Maximize usage of collective data
- Provide discrete business processes as services or components
- Look for existing solutions before building
- Based on Standards
- Develop a partnership community
Meeting needs at local, group / national levels

- Storage of data in optimum location
  - Flexibility important
- Make the data available (including enriched, harvested, contributed, mined...)
  - At local, group / national as well as global levels
  - Components and Services to serve diverse systems
- Create Developer Network
Storage in optimum location

- Central data sources
  - Exposure via web scale site – worldcat.org
  - Collective collection development
- Collection analysis, collection comparison
  - Data mining & statistics

- Regional and local sources
  - Data with little relevance outside region
  - Sensitive data (private, political sensitivities)
  - Dynamic data
  - Linked to central data: importance of identifiers
Make the data available

- Identify standards requirements to facilitate enquiry and diffusion of data
  - SRU, Z39.50, OAIPMH, OpenURL – develop query context sets and schemas as necessary

- Provide software services
  - Access to data at local, group / national levels
  - Data transformation & validation services

- Provide software components
  - For incorporation into systems at local, group / national levels, into browsers
  - Interoperating with OCLC’s data services
Examples: Discovery

- SRU server enquiry capability being deployed across data resources
- Data Grouping (FRBR-like) services
  - Fiction Finder (prototype service, freely available)
  - XIdentifier services for discovery of additional editions (public identifiers = 30% WorldCat) (low volume use free)
  - Cluster data service for clustering result sets and discovery of additional editions (OCLC identifiers = 100% WorldCat) (service in development)
  - Ongoing work in Office of Research and Quality Control to improve grouping – Full commitment
Fiction Finder
http://www.oclc.org/research/projects/frbr/fictionfinder.htm

<table>
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<tr>
<th>Title / Author</th>
<th>OCLC #</th>
<th>Date</th>
<th>Language</th>
<th>Format</th>
<th>Aud.</th>
<th>Libraries</th>
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<td>1. The hidden force / Louis Couperus ; translated by Alexander Teixeira de Mattos ; revised, edited, with an introduction and notes by E.M. Beekman</td>
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<td>1985</td>
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<td>Dutch</td>
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XISBN

• Get editions:
  http://xisbn.worldcat.org/webservices/xid/isbn/0596002815

<?xml version="1.0" encoding="UTF-8"?>
<rsp
  xmlns="http://worldcat.org/xid/isbn/"
  stat="ok">
  <isbn>0596002815</isbn>
  <isbn>1565928938</isbn>
  <isbn>1565924649</isbn>
  <isbn>2841770893</isbn>
  <isbn>8371975961</isbn>
</rsp>

• Also
  • Get metadata
  • Convert ISBN from 10 to 13 & vice versa
  • Calculate check digit

Discovery services
## Cluster service: NCSU’s results (Endeca)

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<tr>
<th></th>
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<th>Author</th>
<th>Editions</th>
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<th>Format</th>
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<td>14 editions</td>
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<td>Shakespeare, William, 1564-1616</td>
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<td>Book</td>
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<td>The taming of the shrew</td>
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<td>Troilus and Cressida</td>
<td>Shakespeare, William, 1564-1616</td>
<td>8 editions</td>
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Cluster Service – In Production

1. Cela, Camilo José (PRUZEN)
   1989
2. The picture of Dorian Gray
   Corrie, John / BBC Learning / 2002
3. Het portret van Dorian Gray: naar den roman van Oscar Wilde voor toneel bewerkt
   Tooren, Marijke van / Hilversum / 1936
4. Binnenlandse Ontwikkelingen Sinds medio oktober 1984
   1985
5. Strousn, generaal Alfredo: ONTWIKKELINGEN SINDS BEGIN 1986
   1989
6. Het portret van Dorian Gray
   Wilde, Oscar / 3e dr / Veen / 2006
7. Het portret van Dorian Gray
   Tooren, Marijke van / Rozenbeek en Venemans / 1936
8. The picture of Dorian Gray
   Levin, Albert / BRT uitz. / 1945
9. Het portret van Dorian Gray
   Wilde, Oscar / Het Spectrum / 1978
10. Verhalen: Het portret van Dorian Gray en andere verhalen
    Wilde, Oscar / 1e dr / Sirius en Siderius / 1986

oscar [47324]
wilde [36859]
portret [21501]
Discovery services continued

- **WorldCat identities**
  - Enriched mined data for every identity (e.g. author) (being brought into production)

- **WorldCat Registry (free service)**
  - Links from holdings display to OPAC
    - Worldcat.org statistics for 2007 – av. 800,000 clicks a month to OPACs
    - Links to libraries’ resolvers for access to full text
    - Over 90,000 institutions registered
    - Machine enquiry services
      - Search service & OpenURL gateway
Louis Couperus (June 10, 1863 – July 16, 1923) was a Dutch novelist and poet of the late 19th and early 20th Century. He is usually considered one of the foremost figures in Dutch literature.

Born in The Hague, the Netherlands in 1863, Couperus grew up in a wealthy patrician family, spending part of his youth in the Dutch East Indies and going to school in Batavia (now Jakarta, Indonesia). Couperus was the grandson of a wealthy Governor General of the Dutch East Indies and many of his relatives were employed in the local government. After returning to The Hague in 1878, he published some early volumes of poetry and prose which garnered little success or critical attention. Couperus came to fame with the publication of his novel Elke Vreugde (1888), a naturalist work influenced by French novelists like Émile Zola and Gustave Flaubert. Couperus’ 1891 novel Noodlot (Footsteps of Fate) was much admired by Oscar Wilde, and many have noted stylistic similarities between Noodlot and Wilde’s 1890 novel The Picture of Dorian Gray.

Couperus’ later works include De Stille Kracht (The Hidden Force, 1900) and De Berg van Licht (The Mountain of Light, 1906), a decadent and seamy novel set at the height of the Roman Empire. His psychological novels, such as “De Boeken der Kleine Zielen” (1901-1902; translated as “The Books of the Small Souls”) or “Van Oude Menschen, de Dingen, die Voorbij gaan...” (1906; translated as “Of old people and the Things that Pass”) enjoyed much success in the English speaking countries after the First World War. His historical novels were very popular in Germany. Couperus’ books sold better abroad than in the narrow-minded Calvinistic Netherlands of his days.

As a child in a large family Couperus was not rich. He had to make ends meet by writing an astonishing volume of work. Fifty novels and volumes of collected stories have been published. Couperus and his wife lived most of his life in boarding houses and rented villas in France.
WorldCat Registry
http://worldcat.org/registry/Institutions/
Registry use: WorldCat.org links to Libraries

<table>
<thead>
<tr>
<th>Location</th>
<th>CALL #</th>
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<tbody>
<tr>
<td>Main Library</td>
<td>PS3561.K5755 L3 1985</td>
<td>CHECK SHELF</td>
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Record: Prev Next

Author: Keillor, Garrison
Title: Lake Wobegon Days / Garrison Keillor.

Description: x, 337 p. : ill. ; 24 cm
Subject: Lake Wobegon (Imaginary place) -- Fiction
ISBN: 0670005149

Record: Prev Next
Registry use: Worldcat.org links to Full Text (via OpenURL)
Machine Level Services in Action
WorldCat Registry

- A global directory of libraries, locations, contacts, and services
- Free for all libraries to maintain and share with partners
- Pre-populated with OCLC data augmented by libraries and partners
- Centralisation essential for delivering content and services more efficiently on the Web
National partners

- Australia, New Zealand, South Africa

“Sharing of directory metadata will streamline workflow processes for Australian libraries, and make the 'getting' part of the 'finding and getting' function more efficient and successful for library patrons. The international standard ISO 2146 Registry Services for Libraries and Related Organisations [http://www.nla.gov.au/wgroups/ISO2146/](http://www.nla.gov.au/wgroups/ISO2146/), produced at the NLA, was successfully used as a benchmark for this project.”

Debbie Campbell, National Library of Australia
Profile Summary

Upper Arlington Public Library

Institution Name: Upper Arlington Public Library
Also Called:
Institution Type: Public Library

Street Address:
2300 TREMCNT RD.
UPPER ARLINGTON, Ohio 43221-3199
United States

Business Address:
2300 TREMCNT RD.
UPPER ARLINGTON, Ohio 43221-3199
United States

Phone: (614) 486-9621
Fax:
E-mail Address: 
Home Page: WWW UALIBRARY ORG
Information Page: http://www.ua.library.org/about.html

Services:
IP Addresses:
Online Catalog: http://vts.ua.library.org/cgi-bin/gw/chameleon
OpenURL Resolvers:
Virtual Reference: http://www.ua.library.org/mail_ref.html

Last updated on 2007-02-13
Examples: Delivery

- Resolver Knowledge Base
  - [http://openly.oclc.org/journalseek/](http://openly.oclc.org/journalseek/)
- Delivery “Super” Resolver
  - Determines physical & digital delivery options
  - Links to OpenURL resolvers
  - Physical resource sharing systems – WorldCat Resource Sharing, VDX, CBS and others accepting OpenURL Request Transfer Message
- “Get it” Browser Plug in
  - Developed for Rethinking Resource Sharing Initiative
Delivery examples continued

- International Fee Management
  - [http://www.oclc.org/resourcesharing/features/feemanagement/default.htm](http://www.oclc.org/resourcesharing/features/feemanagement/default.htm)
  - “Decoupled” web service (in development)

- WorldCat Registry
  - Delivery Policies (coming this year) in addition to existing data supporting delivery:
    - Addresses
    - Reference services
    - Resolver enquiry – most widely used web service
“GetIt” browser plug-in
http://rethinkingresourcesharing.com/installgetit.html
Example: Data contribution

- Alignment WorldCat and Union Catalogues with SRU update (CBS software in Dutch, German & Australian union catalogues)

- Real time background process – exchange of identifiers

- Alternatives
  - Other software: OAIPMH / FTP
  - Group catalog
Developer Network

- **Developer’s Network** – collaborate, share, solve
  - Remove redundant development effort
- **Partner’s Network** – bring community providers together for benefit of all
  - Encyclopaedias, online bookstores, search engines +++
- **Components and Services**
  - Metadata crosswalk, metadata extraction
  - Identity Management
    - User profile, authentication and authorisation
In Conclusion

• OCLC (with OCLC PICA) is seeking to make a true global library cooperative
  – Relevant to modern internet based world
  – Capable of delivering discovered items

• OCLC (with OCLC PICA) is opening its resources to the global library community
  – Seeking development partners
  – Providing data services and software components
Thank you

Dank u wel