Managing your library, not your technology

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Product & Technology Advocate

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What if...

Discovery Layer

- Bib Records
- Item Records
- Cataloging Module
- Digital Repository
- Union Catalog

Single Database Records
What if...

one staff interface
What if…

I'll put that report together soon…

I'll send you the purchase list later today…

I need to check and see if we have that…

I know that info is here somewhere…I just need a couple more hours…

No I don't have those numbers…
What if…
OCLC was founded because of “what if?”
A deeper look at Web-scale Management

- How working at Web scale changes the game for libraries
- How this is a revolutionary approach to collection management
- Outcomes for your library
- Live demonstration of Web-scale Management
- Making the move to Web-scale Management
Changing the game for libraries

Moving from local systems to Web scale systems
Today’s environment

Data — Application — User *

* Can be people or machine/systems
Today’s environment
What if...

Applications

Services

Data

Community
How WMS works
Why do it this way?
# Library Web Scale

**Worldwide libraries and worldwide library transactions**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Libraries worldwide</td>
<td>1,212,383</td>
</tr>
<tr>
<td>Back-office transactions</td>
<td>200,000,000</td>
</tr>
<tr>
<td>OPAC transactions</td>
<td>105,600,000,000</td>
</tr>
<tr>
<td>Database transactions</td>
<td>36,500,000,000</td>
</tr>
<tr>
<td>Circulation / ILL</td>
<td>5,000,000,000</td>
</tr>
</tbody>
</table>

- Possible with a small farm of commodity servers in the cloud
- With appropriately architected software

- **Annual transactions**: 147,300,000,000
- **403,500,000 transactions / day**
- **4670 transactions / second**

=> Massive infrastructure cost reductions possible for libraries
Up front requirements for Web scale

• Responsive
• Massively scalable
• Highly fault tolerant
• Ready for public consumption
• Must provide:
  • Patron and data privacy
  • Data security
  • Data ownership clear stated
Why Web Scale makes sense for libraries

- Applications
- Services
- Data
- Community
Why Web Scale makes sense for libraries

YOU SAY YOU WANT A REVOLUTION
Well, you know we all want to change the world
Web-scale Management components

Applications

Discovery & Delivery
WorldCat Local

Cooperative Intelligence

Workflow Engine

WorldCat

Configuration

Circulation & Patron Management

Print & Electronic Acquisitions

Metadata Management

Serials & License Management
Circulation and discovery on WMS

Services

WMS Circulation

WorldCat Local

Applications

Services

Data

Community

SRU & NCIP2

Circulation Data
Identity management on WMS

Library IdP

Meta AuthN

Applications

Services

Data

Community

Identity mgmt services

User Data
Circulation management

WMS Circulation

Applications

Services

Data

Community

Self Checkout

Identity Mgmt
C’out, C’in

Circulation Data
Example: Working with external services: The Amazon Budget Widget

Current Budget: 4,573.21 | Remaining Budget: 4,348.43

The application platform will allow us to develop power tools that could really, really streamline operations for staff.

*Kyle Banerjee, Digital Services Program Manager*  
*Orbis Cascade Alliance (pilot participant)*
Going to the next level: An accessible, extensible platform

A cooperative platform that lets anyone develop new applications on the platform:

- Libraries
- Groups and consortia
- Research teams
- Publishers
- Software vendors
- Entrepreneurs
Example: Putting a Bestseller app into Acquisitions
Installing the Bestseller app from the Application Gallery

Install new app

Library-Contributed

Bestseller widget that aggregates data from online sources

Bestseller widget demonstration. Reads the list of best-selling mass-market paperbacks from the New York Times and compares with local holdings and holds from the circulation system. Appears in the acquisitions sidebar.

Number of installs: 1,202
Contributor info: email, www.oclc.org, Tel: x (614) 764-5000
Support Info: email, www.oclc.org, Tel: x (614) 764-5000
First release: 20th June, 2010
Last modification: 20th June, 2010
Languages: English (en_US)

Third-Party

OCLC
Example: Putting a Bestseller app into Acquisitions

<table>
<thead>
<tr>
<th>Rank</th>
<th>Title</th>
<th>Weeks On</th>
<th>Copies</th>
<th>Holds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The girl with the dragon tattoo</td>
<td>13</td>
<td>7</td>
<td>17</td>
</tr>
<tr>
<td>2</td>
<td>The girl who played with fire</td>
<td>12</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>Black hills</td>
<td>3</td>
<td>9</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>The bourne deception</td>
<td>2</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>The doomsday key</td>
<td>3</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>Orchard valley grooms</td>
<td>3</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>Garrett</td>
<td>3</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>Medusa</td>
<td>3</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>Matters of the heart</td>
<td>3</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>Married by morning</td>
<td>3</td>
<td>6</td>
<td>1</td>
</tr>
</tbody>
</table>
Outcomes for your library
Typical firm order workflow

Search OPAC to see if library owns item to be purchased

Yes
Don't purchase

No
Purchase

Search Cataloging Utility for MARC record

Record found
Download to Local System

Search for Bibliographic record

Record found
Login into Acquisitions system

Create order from bibliographic record
Ordering with Web-scale

- Login into Acquisitions system
- Search for Bibliographic record
- Create order from bibliographic record
## Total Cost of Ownership (TCO): 5th grade Algebra differential

<table>
<thead>
<tr>
<th></th>
<th>Up front (one-time)</th>
<th>Year 1-10 (ongoing)</th>
<th>10 year cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OLD MODEL:</strong></td>
<td>$x + .10X</td>
<td>$.15x</td>
<td>$2.6x</td>
</tr>
<tr>
<td><strong>NEW MODEL:</strong></td>
<td>$.10x</td>
<td>$.15x</td>
<td>$1.6x</td>
</tr>
</tbody>
</table>

**38% price differential**

Does not account for other savings and added value:

- **Hard costs:**
  - Hardware, 3rd party software, Maintenance OR Hosting
- **Soft costs:**
  - workflow efficiency savings
  - added functionality savings
  - opportunity to create capacity to do new things
Top reasons that OCLC Web-scale Management Services define a different future

- Unified Collection Management
- Concentration of sharable data
- Innovative and enabling technology
- Global collaborative community
The Web-scale Management Service has been:

- Asked for by member libraries
- Developed with member libraries
- Tested by member libraries

It shows the power of the cooperative to:

- Increase access to the world’s knowledge
- Reduce rising costs for libraries
“With WMS, system costs will drop significantly. Like ‘getting another FTE’ significantly. We’re going to save a lot of staff time.” Michael Dula, Pepperdine University

“Consolidating systems will drastically reduce overhead. And the technical and financial model is one that allows you to realistically migrate.” Kyle Banerjee, Orbis Cascade Alliance

“Multitype collaboration and affordability are also key. Moving all functionality to one location makes sense. In a town with 20,000 people, you don’t have a lot of IT people looking for work.” Gina Persichini, Idaho Commission for Libraries

“The back-end processes smooth things out to a degree that it really is very different than any other system.” Jason Griffey, University of Tennessee at Chattanooga
Demonstration
Making the move

- Data readiness
- Implementation cohorts
- Data migration
- Planning for improved workflows based on local needs
To get started

• To get started with Web-scale Management Services:
• Contact your OCLC Library Services Consultant to determine the implementation timeframe that is right for your group or library
• libservices@oclc.org
• Visit the Web site to find announcements, sign up for events (next one with early adopter libraries is February 3rd), new videos and more
• www.oclc.org/webscale