Information Technology Initiatives at Yale University Library

June 24, 2013

Michael Dula
Chief Technology Officer
Library IT org chart
Library IT

- 19 People
- 920 Workstations (plus a growing number of mobile devices)
- 856 Terabytes of storage (out of 1307 available)
- Servers
  - 4 V-Hosts (physical)
  - 59 Virtual Machines
  - 15 Windows Servers
  - 8 Sun Servers
- 8 Enterprise Systems
- 300+ Custom Applications and Databases (approx.)
Library IT Projects - Overview

• Website redesign
• EliScholar Scholarly Publishing Platform
• Atlas Systems: Aeon and Ares
• SQL2012
• Voyager utilities and enhancements
• Identity Management
• The Hydra Project
• Discovery Implementation
Website redesign

• Deletion of out of date and unsupported webpages

• Less static and more dynamic webpage content

• Moving content to LibGuides, example GetIt@Yale

• Study room reservations via LibCal
Static Web Pages: library.yale.edu

- 2 years ago: 80,000
- Currently: 40,000
- Goal for December 2013: 20,000
- Future: ?
EliScholar

Institutional repository hosted by Bepress for Yale Journals, conference proceedings and other publications.

Sampling of prospective materials:

• Drama MFA theses
• Nota Bene
• Medical theses
• Digital Himalaya site
• E-journals
• SelectedWorks portfolio pages
EliScholar - http://elischolar.library.yale.edu/
Atlas Systems: Aeon and Ares

- Ares will provide better e-reserve management
- Aeon has been implemented by BRBL and MSSA and provides improved special collection and archival management
- Aeon will roll out to other special collections in the year ahead
- New position to support Atlas Systems
SQL2012 (Example)

Requests over the Past 5 Days

Percent Completed in < 48hrs
- Total Finished Transactions: 217
- Completed in Less than 48hrs: 150
- Percentage: 71.05%

Average Turnaround Time in Hrs.
- Average Number of Hours to Completion since Receipt by Date: 22

Request Volume
- Received vs. Finished

<table>
<thead>
<tr>
<th>Date</th>
<th>Received</th>
<th>Finished</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16/2013</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3/17/2013</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/18/2013</td>
<td>76</td>
<td>20</td>
</tr>
<tr>
<td>3/19/2013</td>
<td>24</td>
<td>98</td>
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<tr>
<td>3/20/2013</td>
<td>50</td>
<td>34</td>
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Current Requests

<table>
<thead>
<tr>
<th>Number of Requests by Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=24hrs</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>12</td>
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37 Outstanding Requests

<table>
<thead>
<tr>
<th>Lending TN</th>
<th>Request Date</th>
<th>Received Date</th>
<th>Age (Placed)</th>
<th>Age (Received)</th>
<th>Transaction Status</th>
<th>Loc.</th>
<th>callnumber</th>
<th>Volume Title</th>
<th>Followup</th>
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<tbody>
<tr>
<td>097593</td>
<td>Mar 13</td>
<td>Mar 14</td>
<td>174</td>
<td>150</td>
<td>In Stacks Searching</td>
<td>xml</td>
<td>E014.3 .TB5X 2009 (LC)</td>
<td>Immigration and the legacy of Harry S. Truman /</td>
<td></td>
</tr>
<tr>
<td>097594</td>
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<td>Immigration and the legacy of Harry S. Truman /</td>
<td></td>
</tr>
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</table>
Voyager Utilities and Enhancements

- Clean-up MARC records
- Red light, Green light
- Virtual review plaza
- Scan & Deliver
<table>
<thead>
<tr>
<th>BIB ID</th>
<th>Title</th>
<th>Author</th>
<th>Publication Date</th>
<th>Publisher</th>
<th>Publication Place</th>
<th>Imprint</th>
<th>MFHD Location</th>
<th>Normalized Call NO</th>
<th>Display Call NO</th>
<th>ISBN</th>
<th>Language</th>
<th>EAN</th>
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<tr>
<td>11387115</td>
<td>This house /</td>
<td>Graham, James; 1985.</td>
<td>2012</td>
<td>Methuen Drama</td>
<td>London</td>
<td>Methuen Drama, 2012</td>
<td>ora</td>
<td>PR 6107 R 3484 T 48 X 2012 (LC)</td>
<td>PR6107 R3484 T48X 2012 (LC)</td>
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<td>eng</td>
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Identity management

The University is working on a replacement for the many outmoded identity systems in use around campus. For YUL, this will mean a replacement for the current VPN system providing access to off campus users. For the Medical Library, we hope that this will replace their aging Squid proxy server. This will bring us in line with peer institutions who allow patrons to access library materials remotely with a single sign-on system.
In collaboration with Stanford, Columbia, the University of Virginia, and other partners, Yale Library has joined an effort to create a set of repository tools to control management, indexing, discovery, retrieval, and preservation of digital materials at all phases of an object's lifecycle. These tools are known collectively as the Hydra project. As of May 2013 we are one of the 18 official Hydra partners.
Discovery Implementation

Timeline

• Summer 2013
  – Summon implementation for e-resources
  – Blacklight implementation for new digital collections
  – Both interfaces live for fall semester

• Fall 2013
  – Integration of Summon with Blacklight
  – Additional digital collections brought into Blacklight

• 2014
  – Single Blacklight search interface for: e-resources, LibGuides, YUL website, Orbis, Morris, most legacy digital collections. Possible BorrowDirect integration.
Summon

Single discovery layer for searching licensed e-journals and some e-books with a simple search linked under Find Articles from the Library’s home page.
Summon - http://yale.summon.serialssolutions.com/
Blacklight for Digital Collections

- Blacklight under development now
- Initial digital collections in Blacklight August 2013
  - Yale Indian Papers Project
  - Arcadia 4 Projects
- More collections added in 2014
  - Migration from CONTENTdm
  - Migration of older Fedora collections
  - Fortunoff
  - Kissinger
  - New Arcadia projects?
  - Others
Integrated Discovery
Blacklight with Voyager, Summon, Fedora collections, and website search
Some Common Threads...
Reducing Complexity

• Reducing number of systems and system components
  – Number of web pages
  – Virtual servers, fewer physical servers
  – Out of the box solutions, fewer custom solutions
  – Build only when the buy option is not available
  – Converging on broad solutions rather than multiple solutions across YUL
  – Using Central Yale resources where appropriate (e.g., Drupal)
Moving to the Cloud

- Yale-wide: Box.net, Basecamp, Office 365 (likely)
- SpringShare products (LibCal, LibGuides, LibAnalytics)
- EliScholar
- Summon (and the KnowledgeBase it uses)
- Aeon and Ares
- Next generation ILS?
- Storage?
Collaborations Internal and External

• Syndicating content responsibility across Library and across Yale—e.g., LibGuides, EliScholar, SQL2012

• Collaboration with external partners
  – BorrowDirect partnership
  – Digital Preservation Network
  – DuraSpace/Fedora Futures
  – Hydra Partnership
Questions?