Data Platform
Prebuilt Reports
- Plug and Play
- ARL is easy!

Custom Reports
- Personalized
- Dynamic

On Demand Analysis
- Answer Anything
- Liberated data!
Standard Reports

• Available online, on demand
• Answer those pernicious “easy” questions
• Accessed through a web interface
Custom Reports

• Opportunity for highly customized dashboards
• Create reports using free online tools
• Create on a PC, upload and consume on the web
On Demand Analysis

• Breeze through your data
• Find meaningful questions – and answer them
• Use free web tools and software you already own
Where does this come from?
How is this different from ILLiad?

• Information available at the consortial level
• You will be able to decide what to share with others
• Data is restructured and “scrubbed” for more reliable reporting
• Higher levels of customization
What will this do to my server?

- Nothing – data is yours, but lives with IDS
- By providing a consortia-wide reporting solution we can provide an enterprise grade product
  - Save individual libraries the cost of hosting analytics platforms
  - A single point of service for system-level problems
  - Reduces the analysis threshold – you don’t need programmers, just curiosity
And what happens to my data...?

**Extract, Transform, Load**
Extract

• Logic pulls values from key ILLiad tables
• Information is loaded into staging areas for processing
  • The load on your servers ends after a simple query
    • No ILLiad slowdown
    • No additional server hosting
• All patron identity information is irreversibly hashed before it enters Data Services
Transform

- Data in the staging area is treated by various scripts, lookup functions, and normalization methods
  - Make sure years are actually years
  - Check for valid system numbers
  - Strip problematic characters from numeric columns
- Check records against existing transactions to keep information up to date
- Alter the data to match a very different schema
Load

• After reformatting, data is moved into a new layout
• Queries are simplified
• Access is faster
• Management is easier
Basically, We’ll handle it
Example 1: Stock Reports

Resource Sharing Overview

<table>
<thead>
<tr>
<th>Process Type and System</th>
<th>CSSSI</th>
<th>DIV</th>
<th>HAAS</th>
<th>LAW</th>
<th>LSF</th>
<th>MED</th>
<th>SML</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borrowing</td>
<td>817</td>
<td>208</td>
<td>0</td>
<td>222</td>
<td>0</td>
<td>573</td>
<td>2955</td>
<td>4775</td>
</tr>
<tr>
<td>Doc Del</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>179</td>
<td>0</td>
<td>510</td>
<td>0</td>
<td>889</td>
</tr>
<tr>
<td>Lending</td>
<td>188</td>
<td>207</td>
<td>57</td>
<td>199</td>
<td>634</td>
<td>729</td>
<td>4280</td>
<td>6294</td>
</tr>
<tr>
<td>Total</td>
<td>1005</td>
<td>415</td>
<td>57</td>
<td>600</td>
<td>634</td>
<td>1812</td>
<td>7236</td>
<td>11758</td>
</tr>
</tbody>
</table>
Example 2: Custom Reports

ScaTr Report

This report captures the transactions that are currently outstanding in the scan and deliver queues, the transactions completed in the past hour since running the report, and all the transactions that have been acted upon since midnight. Only can and deliver requests (doctype "scan") are captured. The outstanding queues are considered to be "Awaiting Scan and Deliver Processing" and "Unavailable In Local System." The possible actions are "Cancelled by ILL Staff" and "Request Sent." Only borrowing transactions are examined.

<table>
<thead>
<tr>
<th>Outstanding at Hour Start</th>
<th>Actions Past Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNs In Status</td>
<td>Transaction Status</td>
</tr>
<tr>
<td>4</td>
<td>Awaiting Scan and Deliver Processing</td>
</tr>
<tr>
<td>14</td>
<td>Unavailable In Local System</td>
</tr>
<tr>
<td>Total</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Actions Since Midnight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request Sent</td>
</tr>
<tr>
<td>gfr7</td>
</tr>
<tr>
<td>mchughd</td>
</tr>
<tr>
<td>System</td>
</tr>
<tr>
<td>th49</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Currently Outstanding Details</th>
<th>Actions Since Midnight Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>TN Transaction Status</td>
<td>TN UserName New Status Time</td>
</tr>
</tbody>
</table>
Example 3: Custom Analytics
Some Examples
The workshop...
Much is possible now

• Identify unused queues easily as well as workflow bottlenecks
• Generate billing rates per queue to estimate ILL cost per transaction
• Figure out where you are in other peoples’ lending strings
• Figure out who, in your lending strings, is actually filling your requests and at what point
Much more is possible...

• The more data we have, the better the data becomes
• Truly collaborative and easy collection development
• Fully automated annual reports, custom printing, and automatic email report subscriptions
• Identify unused queues easily as well as workflow bottlenecks
• Integration with OCLC APIs to verify our information
• Researching possibility of working with CCC to evaluate buy vs. borrow en masse
• Smart distance measurement and known lenders
IDS Data Services

Stay Tuned...