Islandora Solution for Big Video

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Agenda

- Project overview
- Achievements
- Challenges
- Goals
Introductions

• Hi, I’m Erin …

• Since 2011, I’ve been involved in the Islandora project

• I’ve been involved in close to 30 different Islandora projects, including the MIRC-DVR project at USC

• Employed at discoverygarden, partner in the Islandora Foundation
Project Overview

• Between 1980 and 2009 USC attempted to make video holdings available, namely the Fox Movietone News Collection. In 2009 funding was secured for phase 1 project.

• In 2011 USC began work with Islandora and discoverygarden to create a content model architecture, plan metadata (PBcore, MODS, DC), and as part of a pilot project

• By 2012 the pilot is launched online

http://mirc.sc.edu/about
http://mirc.sc.edu/islandora/object/usc%3A23292
Project Overview

The MIRC-DVR content model is tiered for preservation, media production and streaming web access.

http://mirc.sc.edu/islandora/object/usc-test%3A174
Project Overview

- Size of files required tiered systems with multiple media copies for preservation, intermediate use and streaming access.

<table>
<thead>
<tr>
<th>Preservation Master</th>
<th>DPX 4K 16bit B&amp;W</th>
<th>2.05 TB/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mezzanine</td>
<td>ProRes 4:2:2 4K</td>
<td>339 GB/hr</td>
</tr>
<tr>
<td>Access</td>
<td>h.264 @ 800 kbps</td>
<td>400 MB/hr</td>
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</tbody>
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Project Overview

• Access to the backend is controlled by XACML policies

• Access is designed to protect early metadata versioning for materials that cannot be described until they are available to cataloging staff in a digital environment.

• The backend is synced to a Filemaker database that bolsters metadata versioning while also supporting complex workflow tracking, from inspection of the film original to digitization and transcoding.
Achievements

- Access: Free, off-site access to low-res, watermarked video (alongside robust descriptive metadata)
- Access: Catalog functionality (search, browse, facets, record export)
- Access: OAI Harvesting for tiered architecture
- Preservation: A handful of digital surrogates
- Preservation: Basic Fedora infrastructure to manage them
Continued Challenges

- 220 TB of mirrored storage on Gluster clusters
  - Only 100 hours of DPX assets!

- Fixity checking & policy-based management pending

- Off-site backup for disaster recovery pending
Goals Going Forward

• Free, off-site access to associated paper, still photo & audio materials

• Durable linking & embedding

• End-user contributed metadata

• Time-based metadata

• Incremental improvements to existing workflows & interfaces, as needed
Questions ...
Thank you!

For more information or to schedule a private demonstration of any Islandora functionality please contact info@discoverygarden.ca