Preservation of Digital Theses at SFU

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http://hdl.handle.net/1880/49063
Downloaded from PRISM Repository, University of Calgary
• **Policy**
  – Theses at SFU go all digital January 2013
  – Digital preservation and data curation are part of the Library's current Strategic Plan

• **Technical**
  – Theses Submission and Management System
    • BagIt Drupal module
  – Summit Institutional Repository
    • Automated ingestion
  – LOCKSS
- Create a robust, standards-based, and sustainable digital preservation program for SFU's theses and associated content
- Integrate preservation services into existing workflows
- Review platform options
Long-term goals

- Use theses as a test case for more general preservation activities
  - Monitor required resources, costs, SWOTs
  - Refine policies and technology
- Develop comprehensive and integrated digital preservation services for selected assets
- Migrate to standardized digital preservation platforms and services (e.g., Archivematica)
  - i.e., within current Strategic Planning timeline
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<tr>
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<th>Archivematica</th>
<th>Locally developed</th>
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<tr>
<td><strong>Pros</strong></td>
<td>Complete digital preservation platform</td>
<td>Services tuned specifically to theses</td>
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<td>Robust support and user community</td>
<td>Can be integrated into existing workflows and tools</td>
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<td>Can be ready prior to Jan. 1/13</td>
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<td><strong>Cons</strong></td>
<td>End-user interaction required</td>
<td>Will require development work</td>
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<td>Will require development work to integrate fully with existing workflows</td>
<td>Is not a complete digital preservation platform</td>
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<td>Lack of support for LOCKSS to store AIPs</td>
<td>Lack of support and user community</td>
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Technical overview

Preservation of Digital Theses at SFU
• 1 representation (thesis as intellectual work) per Bag
• 1+ files per Bag
  – Thesis PDF
  – Supplemental files, e.g. data, video, other PDFs
  – METS file containing
    • ETDMS metadata file
    • Technical metadata (FIDO, FITS output) for each thesis and supplemental file
    • structMap indicating relationships of supplemental files
• 1+ versions per Bag

PREMIS Object model
• Dark archive
  – Store it and forget it
  – AU status reports
• PREMIS events
  – Will record capture, ingest, normalization, validation
  – LOCKSS makes fixity check, replication redundant
• Embargos and other restrictions
  – Distributed preservation raises access issues
• Build, borrow, buy, collaborate?
• What constitutes “handing off the baton”?  
  – 15% of first 500 files submitted to the Theses Management System failed JHOVE validation
• Policy and technical decisions around supplemental files 
  – Video, raw data, etc.  
  – Offline versions of these, e.g. video on DVD
• Optimizing workflow integration

Issues to resolve