

A Persistent Digital Preservation Strategy for UBC Library

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> UBC Library September 26, 2012



a place of mind

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introduction

- Pilot and early stages of digital preservation program at UBC Library
- Supports Library's strategic focus
- New digital initiatives unit
- Opportunity to develop comprehensive approach





overview

- Working with Artefactual Systems
- 2011: pilot projects and testing of Archivematica
- 2012: full implementation of Archivematica and production services



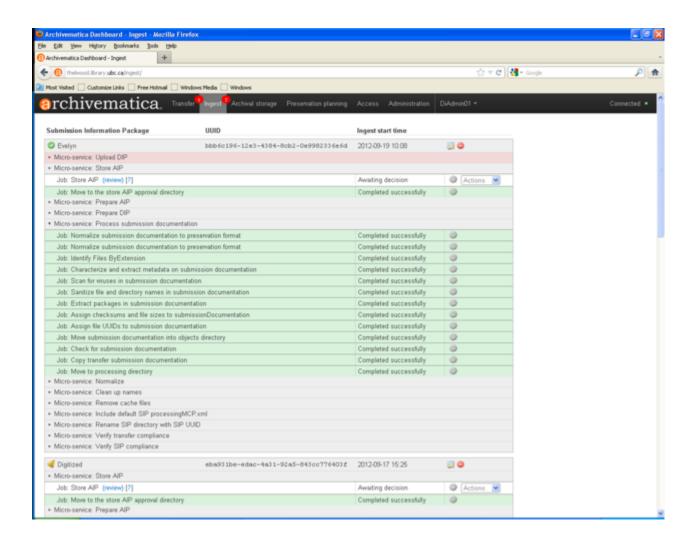


archivematica

- "a free and open source digital preservation system that is designed to maintain standardsbased, long term access to collections of digital objects" http://www.archivematica.org
- micro-services provide integrated suite of software tools in compliance with ISO-OAIS model



archivematica





gap analysis

- Born digital material in Rare Books and Special Collections and University Archives
- Locally created digital collections
 - cIRcle digital repository (DSpace)
 - Digital collections (CONTENTdm)
- Among other things...

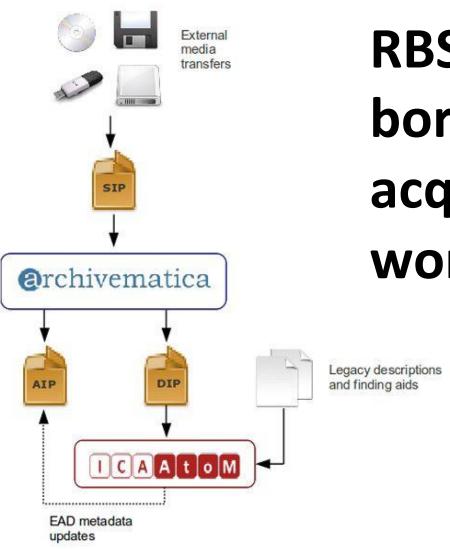




legacy media

- Floppy and optical disks acquired with primarily analogue collections.
- Hardware set-up and technological challenges
- Intellectual challenges:
 - Arrangement and description
 - Selection of material
 - Rights





RBSC/UA born-digital acquisition workflow



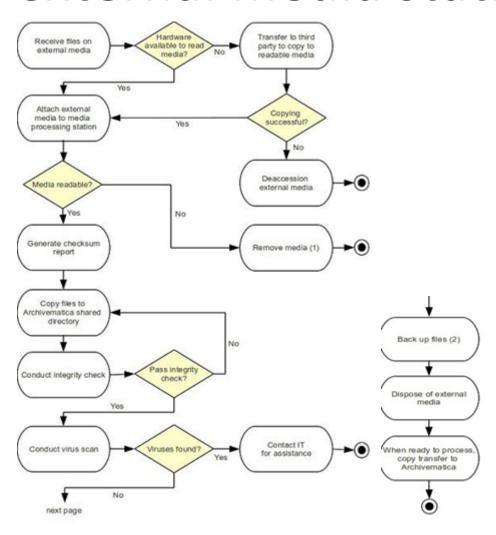




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external media station workflow



a new acquisition



- "First" born-digital acquisition
- Donor questionnaire
- Physical transfer of files
 - Hardware and software
 - Levels of preservation
 - Workflow documentation
- Donor gift agreement





preservation levels

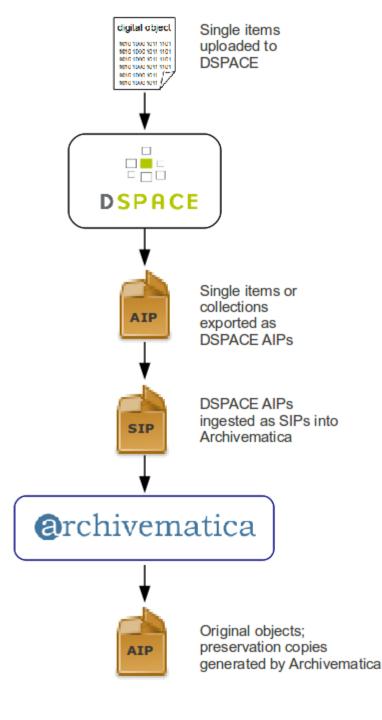
Level of Preservation	Use case	Minimum tools
Level 1	Imaging files from working hard drives, directly from creator	Write blocker, file synchronization software (e.g. Grsync)
Level 2	Imaging/copying files from external media	File synchronization software (e.g. Grsync), write blocker if possible
Level 3	Preserving external media only	Hardware necessary to open media (floppy drive, optical drive, etc)





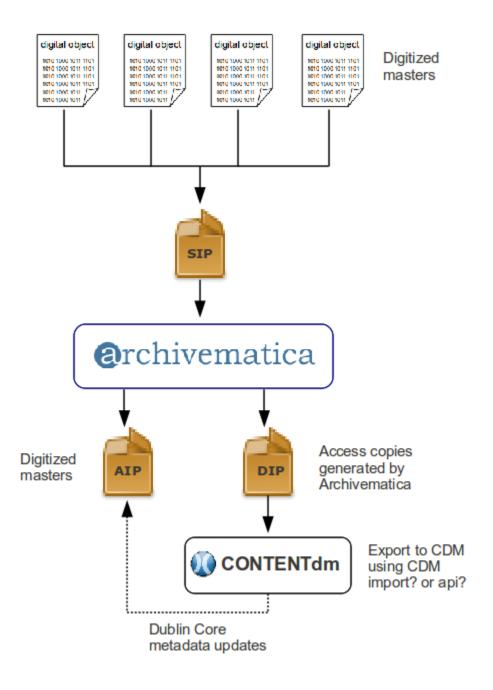
some additional programming required





cIRcle

 Archivematica receives submissions from DSpace



CONTENTdm

- Master files uploaded to Archivematica
- Archivematica produces access versions

next steps



- Production services by end of 2012
 - Complete the Archivematica/DSpace integration.
 - Complete the Archivematica/CONTENTdm integration.
 - Complete Archivematica/ICA-AtoM integration and ingest new acquisition.
 - Web-archiving
- Research data
- LOCKSS PLN pilot
- Develop a unified discovery interface for UBC Library digital collections (Archivematica index)
- Prepare to undertake TDR self-audit





conclusion

- Establishing comprehensive digital preservation program is complex - many moving parts
- CONTENTIAM and DSpace integrations show promise - for us, for other institutions, for future integrations with Archivematica

