DIGITAL ARCHIVES & PRESERVATION SYSTEMS

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Session Overview

- Digital archives and digital preservation systems.
- These open source tools are being developed and used in the digital archives and digital preservation communities to address the needs and gaps in systems for meeting standards, such as OAIS, PAIMAS, and Trustworthy Digital Repositories.
- They enable description, discovery, delivery, and preservation of digital collections.
- Some of these are currently being assessed and/or implemented at MIT Libraries.

Presented to MIT Libraries Staff on July 17, 2015.
Systems and Tools to be presented

- **ArchivesSpace** – archives collection management and discovery

- **Archivematica** – digital preservation system (processes files chosen for preservation and creates Archival Information Packages and Dissemination Information Packages)

- **(atom) Access to Memory** – archives and special collections discovery and delivery system and collections management system

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Lifecycle Environment

Storage Pathways
Digital Content Management Workflow
External Content Creators
Archives Collections Security Requirements

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Manage Digital Workflow

Diagram showing steps in the Manage Digital Workflow and the Storage Areas.

Digital Content Management – Lifecycle Workflow [on the DCM wiki]

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ArchivesSpace

- Archives Management System
  “Software that provides integrated support for the archival workflow, including appraisal, accessioning, description, arrangement, publication of finding aids, collection management, and preservation.”

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http://test.archivesspace.org:8080/
http://archivesspace.vmi.edu/
Access to Memory (atom)

- Archives Management System
  Software that provides integrated support for the archival workflow, including appraisal, accessioning, description, arrangement, publication of finding aids, collection management, and preservation.

- Digital Content Delivery system


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Process your files for Preservation and Delivery

May include arrangement & deaccessioning

Workflow engine that
- Sends your files through a set of tools
- You make decisions during the workflow
- You set the locations for the files to live
- Archivematica collects and combines the metadata about all of the tasks, processes, and results into a METS file and uses PREMIS semantics
- Archivematica produces Bags (Bag-It)

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atom is back- and front-end

Collections management
Collections description

Collections description delivery
Digital collection objects delivery

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Description of atom

- It is a web-based, open source application for standards-based archival description and access in a multilingual, multi-repository environment.

- Archivematica is bundled with AtoM and is designed to upload Dissemination Information Packages (DIP) to AtoM

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Primary Functions

Standards-based
AtoM was originally built around International Council on Archives (ICA) descriptive standards:
• General International Standard Archival Description (ISAD) - 2nd edition, 1999
• International Standard Archival Authority Record (Corporate bodies, Persons, Families) (ISAAR) - 2nd edition, 2003
• International Standard For Describing Institutions with Archival Holdings (ISDIAH) - 1st edition, March 2008
• International Standard For Describing Functions (ISDF) - 1st edition, May 2007
• AtoM supports Simple Knowledge Organization System (SKOS) - W3C Recommendation 18 August 2009.
• AtoM is designed to be flexible enough for adaptation to other descriptive standards; see Descriptive standards for a full list of other standards currently supported.

Multilingual
• All user interface elements and database content can be translated into multiple languages. AtoM comes with several translations installed.

Multi-repository
• AtoM can be used by a single repository for its own descriptions or it can be set up as a multi-repository “union list” accepting descriptions from any number of contributing collections. Presented to MIT Libraries Staff on July 17, 2015.
Possible Integration

**ArchivesSpace - atom – Archivematica – atom**

- Describe collections in ArchivesSpace + Accession, etc.
  - Export that descriptive info at EAD
  - Import it into atom as a Collection Description

- Run digital collection files through Archivematica
- Link the DIP files to the atom descriptions
- Send the location and file info to ArchivesSpace

Full collections info in ArchivesSpace as master
Delivery of collection description + files to User

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Demo of atom

Atom Community  https://wiki.accesstomemory.org/Community

Digital Sustainability Lab – Archivematica instance
[MIT IP only]  http://libaxis22.mit.edu/

Manual  https://www.accesstomemory.org/en/docs/2.2/
atom demo site  http://demo.accesstomemory.org/
Examples  https://wiki.accesstomemory.org/Community/Users

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AtoM architecture diagram
THANK YOU FOR YOUR ATTENTION!

JULY 14 (11AM): ARCHIVEMATICA AND STORAGE SERVICE
JULY 17 (10AM): ACCESS TO MEMORY (ATOM)

References


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