Archivematica integrations: Handshaking towards comprehensive digital preservation workflows

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we should be building systems that enable a high-level of linkability at multiple endpoints
why integrate with other systems
open source vs. proprietary
endpoints
some systems integrated with archivematica
why do integration work?

➢ leverage resources already invested
  ○ acknowledge systems of record and overlapping functionality

➢ add value to repository
  ○ digital preservation workflows for diverse procedural contexts (ex: archives vs digitized content)
  ○ multiple endpoints for ‘handshaking’
why do integration work?

➢ reduce duplication of effort between projects/systems
➢ empower adoption by small/mid-sized institutions
   ○ if we work together rather than compete, the community is larger and more powerful, sharing is possible, implementation is easier and training is more accessible
we prioritize integration work with other open source systems

(but we’ll integrate with proprietary systems to meet you where you are)
OS vs proprietary handshaking

Open source:
- Transparency
- Download/install current versions
- Configurable
- Open docs
- Aligned ideals

Proprietary:
- Black box
- Nothing to test/iterate against
- No docs
system synthesis

- AtoM
- ArchivesSpace
- Archivists’ Toolkit
- Arkivum
- CONTENTdm
- DSpace
- DuraCloud
- Fedora
- HPTrim
- Islandora
- LOCKKS
- OpenStack
- Hydra?
- DataVerse
some of the integration work we’ve done so far
Archivematica integration endpoints

- Handoff from source systems to transfer space
- Access and description handoff
- Archival storage handoff
  - Repositories
  - Secure storage
- Administrative handoff
source endpoints

➢ sources of content to be processed in Archivematica
  ○ DSpace
  ○ DuraCloud (ArchivesDirect hosting)
  ○ CONTENTdm
  ○ BitCurator
  ○ Islandora
  ○ HPTrim
access & description endpoints

- AtoM
- Archivists’ Toolkit
- ArchivesSpace
- CONTENTdm
- DSpace (pending)
storage endpoints

- Arkivum
- DuraCloud
- Fedora (via Islandora integration)
- LOCKSS
- OpenStack
DSpace*

➢ ingest exports
  ○ collection and/or item)

➢ dark archive for a DSpace repository
  ○ descriptive and rights MD preserved
  ○ community/collection relationships preserved

archivematica.org/en/docs/archivematica-1.4/user-manual/transfer/dspace/#dspace

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CONTENTdm

- OCLC let’s us see their hand
- Project Client DIP uploads
  - includes MD for simple and compound object(s)
  - maintains order of files and directories

archivematica.org/en/docs/archivematica-1.4/user-manual/access/contentdm/#contentdm

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Islandora

➢ Archidora
○ Islandora front-end
○ archival storage in Fedora
○ notification to Islandora

github.com/discoverygarden/archidora

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AtoM

➢ upload access copies and MD from Archivematica to AtoM description
➢ MD parsed into descriptive standards
  ○ (RAD, DACS, MODS, ISAD-G, EAD)
➢ link to the AIP from description
➢ arrange to levels of description reflected in AtoM

accessstomemory.org
Archivists’ Toolkit

➢ upload DIP MD (incl PREMIS rights/restrictions) from Archivematica
➢ AT link to access copies on web server
➢ generate EAD from AT

archivematica.org/en/docs/archivematica-1.4/user-manual/access/archivists-toolkit/#archivists-toolkit

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ArchivesSpace

- current integration similar to AT
- coming soon: arrangement to AS

resources from Archivematica

Appraisal Tab

[archivematica.org/wiki/ArchivesSpace_integration](http://archivematica.org/wiki/ArchivesSpace_integration)

sponsored by RAC and by Bentley Historical Library
DuraCloud

- store AIPs in DuraCloud
- process and store AIPs in DuraCloud using ArchivesDirect
- integration works without ArchivesDirect
  - local installations can leverage archival storage in their own DuraCloud instance

created in partnership with DuraSpace
Other AIP stores

➢ DSpace - pending Bentley work
➢ Fedora
  ○ but not Fedora 4 (yet)
  ○ Archidora
➢ LOCKSS
➢ OpenStack
thank you!

archivematica.org @archivematica
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archivesdirect.org

documentation and the user community is free & open