Integrations with ArchivesSpace Webinar Series: Archivematica and ArchivesSpace

February 19, 2020 – Webinar
Presenters

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Archivematica

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LYRASIS

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Bentley Historical Library

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Rockefeller Archive Center
What is Archivematica?

Archivematica is a web- and standards-based, open-source application which allows your institution to preserve long-term access to trustworthy, authentic and reliable digital content. It is developed and maintained by Artefactual Systems.

- OAIS-aligned
- Storage and access system agnostic
  - Achieved by creating agnostic packages in open, widely adopted formats (like bags)
Archival Information Package: long-term storage
Dissemination Information Package: access (optional)
Approaches to integration

- “Bounty model” of development
  - Pros: based on real-life workflows; integration becomes available for others to use
  - Cons: based on one real-life workflow
- Risks mitigated by using a “handshake” approach
  - Lesson learned from CONTENTdm integration…
- Going forward- more API-driven approaches
  - AMClient
- Fully hosted digital preservation service
- Store in cloud or preservation networks
- Any type of file, any size
- Automated duplication across multiple storage systems
- Preserve and store images that can be linked to in ArchivesSpace digital object records
Photograph of Joseph G. Brennan and James B. Stockdale, 1979

Item — Box: 6, Folder: 8  Identifier: MSC-085

Naval Historical Collection  
James B. Stockdale papers  
Photographs of Joseph G. Brennan and James B. Stockdale, 1979, 1983  
Photograph of Joseph G. Brennan and James B. Stockdale, 1979

Scope and Contents

From the Collection: This collection contains correspondence, meeting minutes, speeches, newspaper articles, lectures, audio and video tape recordings, articles, and photographs relating to James B. Stockdale’s academic and naval careers from 1960 through 2006. The bulk of this collection documents his correspondence and work at the Naval War College, specifically his administrative and educational roles.

Prominent correspondents include Professor Joseph G. Brennan (1910-2004), Admirals Carlisle Trost (1930-), Thomas Hayward (1924-), James Holloway III (1922-), Julien J. LeBourgeois (1923-2012), and Senators John Chafee (1922-1999), Sam Nunn (1938-), and John Tower (1925-1991). The majority of the correspondence relates to his professional work and responsibilities.

Along with Stockdale’s published and unpublished writings on moral leadership, his prisoner of war experiences, and the mind in captivity, there are several articles by other academics and writers contained in this collection. Significant speeches from 1963-1993, which includes his time as president of the Naval War College, are in the collection. His speeches on values, leadership, and his prisoner of war experiences were in high demand.

Of particular interest within this collection are two volumes of lectures for the popular course entitled Foundations of Moral Obligation taught by Stockdale and Brennan. A summary of his captivity in a North Vietnamese prison from 9 September 1965 to 12 February 1973 is also of high significance. Additionally, this collection contains Stockdale’s funeral and services of commemoration.

Dates

1979

Language of Materials

From the Collection: English
Archivematica-ArchivesSpace DIP Upload Integration
An Archivematica DIP

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Use case

- We needed to link a large volume of digital objects to existing description
- We needed to create rights statements that are machine actionable
- We needed the process to be scalable
What does this integration do?

- Rights information and technical metadata is passed from Archivematica to ArchivesSpace through automated processes.
- This automated recording of DIP information in ArchivesSpace can be done either through manual linking or through filename matching.
PREMIS Rights Statement Mapping

- **Publish**: Set as TRUE or FALSE based on "publish" act.
- **Restrictions?**: Set as TRUE or FALSE based on "disseminate" act.
- **Conditions Governing Access note**: Derive from PREMIS rightsGrantedNote based on "disseminate" act. (This can also be set in the Archivematica administration settings.)
- **Conditions Governing Use note**: Derive from PREMIS rightsGrantedNote based on "publish" act. (This can also be set in the Archivematica administration settings.)
ArchivesSpace DAO
Configurations
Manual Matching
Automated Matching
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Where We Are Now
Integrating ArchivesSpace and Archivematica at the Bentley Historical Library

Max Eckard
Lead Archivist for Digital Initiatives

Integrations with ArchivesSpace | February 19, 2020
Institutional Context

- **Bentley Historical Library** (BHL) systems ecosystem
  - ArchivesSpace - Administrative and descriptive metadata
  - Archive-It - Web archiving
  - Archivematica - Born-digital processing
  - DSpace - Preservation and access for born-digital materials
  - Kaltura - Streaming A/V access
  - DLXS - Finding aids, digitized text and image collections
  - Aeon - Circulation management
- Ongoing effort to implement systems that can be integrated with one another
  - [ArchivesSpace-Archivematica-DSpace Workflow Integration project](#)
Facilitate the creation/reuse of descriptive and administrative metadata across preservation and management systems.
Creator: Cacioppo, George
Title: George Cacioppo
Inclusive dates: 1939-1985
Extent: 12 linear feet (in 2)
Call number: 2009045 Aa 2

appears to be its predecessor from 1977-1981. Volumes 2 and 3 of the Weekly Tongue are found loose in folders and also are bound in their entirety.

Box 1

Budget and Salaries
1970-1980
1981-1986

Committees
Committee on Curricular Flexibility, 1956
Committee on Foreign Language Instruction, 1953-1959
Committee on Higher Education, 1961
Executive Committee Minutes and Materials
1933-1936
1936-1938
1938-1942
1942-1944
Subcommittee on Language Instruction, 1944
French Section, 1983-1987
Humanities Group, 1978
Senior Advisory and Executive Committee Meetings, 1954-1958
Main menu of procedures:

1. Initial survey
2. PII scan
3. Identify missing file extensions
4. Format conversion
5. Arrangement, packaging, and description
6. Transfer and clean up

Q: Quit the BHL Automated Batch Processing Sequence

AutoPro may be completed in one session or may be stopped.

Quitting an automated procedure mid-operation may result in lost data.
Please complete a procedure before exiting the sequence.

Processing status: Deposit 2008027_0001 (as of Fri 04.10.08)
Completed: Preliminary procedures
Completed: 1. Initial survey procedure 1 of 6

Enter an option:
Why Integrate ArchivesSpace and Archivematica?

- Shortcomings with previous workflow for digital processing
  - FileMaker Pro: Metadata was not in a widely used, open system
  - Microsoft Word → EAD: Workflow for EAD generation too localized and complicated
  - AutoPro: Not intended to be a long-term solution
  - Lack of system(s) of record: Lots (and lots… and lots…) of duplicate metadata entry
  - Scale: Scale was an issue!

- ArchivesSpace
  - System of record for descriptive and administrative metadata
  - Gradual migration of metadata from disparate systems into ArchivesSpace

- Archivematica
  - System of record for digital processing/Archival Information Package (AIP) creation
  - Gradual migration of digital backlog into Archivematica

Both systems (DSpace, too!) play nicely with others!
Sponsoring New Features in Archivematica

- Worked with Artefactual
- Developed a new “Appraisal and Arrangement” tab in Archivematica
- Integrated Archivematica-ArchivesSpace that permits archivists to:
  - After initial transfer…
    - Display resource records in a treeview
    - Create and edit descriptive metadata for new or existing archival objects
    - Drag and drop digital content onto archival description, creating digital objects associated with those archival objects
  - After AIP creation and deposit…
    - Write newly-minted DSpace handles back to ArchivesSpace
DCC Curation Lifecycle and Workflow Integration
How well has this systems integration aged?

- Pretty well! But...
- We use the particular workflow outlined here less and less
  - Works well for relatively small, heterogeneous transfers
  - Doesn’t work as well for:
    - Relatively large or homogenous transfers
    - Transfers destined for digital repositories besides DSpace
- That said, we use integration more and more (in more loosely- and tightly-coupled gradations)
Lessons Learned

- Systems integration is where it’s at! *Side note: The integration of people is as challenging as the integration of systems.*
- More important than any particular workflow is…
  - Having systems that are designed to play nicely with others
  - The technical upskilling we did as a team while implementing, migrating to, and integrating ArchivesSpace and Archivematica
    - [bentley-historical-library/aip-repackaging](#): Scripts to support repackaging and depositing Archivematica AIPs to DSpace
    - [bentley-historical-library/dapp](#): A client to communicate with a remote DSpace installation using its backend API
    - Lots of other ArchivesSpace repositories...

*We are now much more flexible in how we approach digital processing!*
Thank you!

Questions?
References

- [1]: Dallas Pillen, “Integrating Archive-It and ArchivesSpace at the Bentley Historical Library,” *Integrations with ArchivesSpace*, December 4, 2019

Resources

- *Archival Integration (blog)*
- ArchivesSpace-Archivematica-DSpace Workflow Integration
  - Part 1: Configuring ArchivesSpace and DSpace Integration within Archivematica
  - Part 2: Appraisal, Arrangement to ArchivesSpace and Deposit to DSpace
- *BHL Archival Curation: Digital Processing*