Using An Open Source Institution Repository for Preserved Email

Preserving Historical Correspondence: Email Preservation Progress and Future Directions

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THE ROCKEFELLER ARCHIVE CENTER



Smithsonian Institution Archives

Requirements or Business Needs

- Reliable storage of archive packages (AIPs)
 - AIPs consisting of multiple files as a single entity
- Support/enforceable taxonomy
- Security
- Manageability
- Accessibility
- Affordability

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Selecting DSpace

Open source with strong community and install base

- Lots of out-of-the-box functionality
- Possible dual purpose
 - Archival storage
 - Dissemination
- Robust security configuration
- Multi-items Titles
- Dublin Core metadata support

Gaps / Opportunities

Hierarchical file relationship
 Package (multi-item title) import

Gap/Opportunity #1

Hierarchical relationships

- Schema solves the hierarchical relationships internal to an email account
- Still have issues where other records must maintain a hierarchical problem, e.g., attachments.

Addressed by 'zipping' those sets for DSpace ingest – consequence: zipped content is not accessible through the DSpace web UI.

Gap/Opportunity #2

Package import

Email AIP consists of multiple files, even after certain sets are zipped up.
Need for a different interface, enhanced
Title and description
Title's items identified, technically described
File structure relationship

Solution = METS Import Module for DSpace

Using METS

• DmdSec – Descriptive Metadata Dublin Core tagging Email Account (aka Title) level information FileGrp – Files included Filename, MIMEType, size, creation date StructMap Files arranged into groups

METS Import Results

Multi-item Title is created for the account
 Dublin Core fields are used for title description

 Selected DC fields populate search indices

 AIP files are attached as separate items hyperlinked from the Title display page.

Overall Results

Archival Storage
 Package or archival object paradigm is supported
 Some limitations on how
 ZIPs of directory trees

Search & Retrieval
 Finding Aid equivalent content displayed
 Individual AIP files are somewhat accessible
 Browser plugins / helper apps
 Download and open option

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