EPADD+ Project Illinois Email Archiving Symposium

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Agenda



- \rightarrow Overview of the ePADD+ Project
- → New features
- → Get started with ePADD
- → ePADD community
- → Q&A

Overview of the ePADD+ Project

January 2021 - December 2022

Email represents an increasingly important part of the historical record. Preserving and ensuring access to this record are therefore central to the functions and values of archives and archivists. Until we can meet the challenges of email archiving, responsible custody is undermined, accountability is abandoned, and, ultimately, the historical record is imperiled. In short, the problem won't take care of itself, and the time to act is now.

Email preservation



Applied to email records

- → Acquire, as files from email clients/servers or IMAP protocol
- → Save original order, e.g., headers, multi-parts, attachments
- → Characterize and describe
- → Normalize/create derivatives
- → Persistent protection and security
- → Discovery/delivery

E@S & ePADD Functional overlap and added value

| Creation and Use | Create/send/receiveDaily use of email and attachments | |
|-------------------------|---|------------|
| Appraisal and Selection | Disposition decisions Appraisal Donor relations | ePADD |
| Acquisition | Capture or transferLegal stewardship | |
| Processing | Arrangement and descriptionRestrictions, embargoes, etc. | E@S, ePADD |
| Preservation | Deposit to repository Preservation actions | E@S |
| Discovery and Access | Listing in online catalogs Availability to researchers | ePADD |
| Account Holder Man | Drds Archivist Technologist Researcher | |

The Future of Email Archives (2018), p. 86, *www.clir.org/pubs/reports/pub175/*

Tools such as DarcMail, ePADD, EAS, and TOMES deserve support that allows for their closer integration and alignment over time.

ePADD+ Project



- → Integrate EAS-like long-term preservation function with ePADD's existing support for appraisal, processing, discovery, and delivery
- → Collaborative effort by Harvard, Manchester, Stanford, and Amuse Labs
 → Funded by University of Illinois (#098468-18280) as part of its EA:BCC regrant initiative, itself supported by the Andrew W. Mellon Foundation (#1905-06768)







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ILLINOIS University Library

Ruby Martinez Chris Prom



Matt Hovey



New Preservation Features in ePADD

ePADD Versions 9.0 and 10.0

New features: Import

Previous ePADD versions

- Limited header information was captured (To, from, subject, date...)
- Some attachments not handled (e.g. text, html)
- Email text captured but formatting was lost
- No support for multi-part messages

After ePADD+ Project

- Complete header information stored
- All attachments types are handled
- Message formatting is captured
- Multi-part messages are handled
- Optional format derivatives
- Optional 'sidecar' files

New features: Metadata

Previous ePADD versions

- Limited metadata captured
- Stored in multiple places

After ePADD+ Project

- Much richer set of metadata captured:
 - Automatic metadata (e.g. PREMIS events)
 - Manual metadata (additional fields available in GUI)
- Metadata stored in a single place using PREMIS

New features: Metadata

| ; separated trustee | email addresses RECOMPUTE ADDRESS BOOK | | |
|---------------------|--|---|--|
| | Induction | | |
| | Identifier assignment | | |
| Set Owners C | Fixity check | | |
| | Message digest calculation | | |
| | Quarantine | | |
| owners email id (| Unquarantine | | |
| - | Unpacking | | |
| | Name cleanup | | |
| | Virus check | | |
| | Format identification | | |
| DDFLUG MAN | Validation | | |
| PREMIS Meta | Transcription | | |
| | Creation | | |
| Event | Other | | |
| | Ingestion | ~ | |

New features: Metadata

| File Edit Sea | ch View Encoding Language Settings Tools Macro Run Plugins Window ? + ¥ |
|--|--|
| 0 1 1 1 1 1 | |
| epaddPremis | umi E3 |
| epaddPremi 646 647 648 649 651 651 652 653 654 655 655 655 655 655 655 655 | <pre>vorm is vorm is v</pre> |
| 669 | |
| 670 | <pre>cpremis:agent> L</pre> |
| 671 | <pre><premis:agentidentifier></premis:agentidentifier></pre> |
| 673 | <pre><pre>cyremis:agentidentifierrype>local</pre>/cyremis:agentidentifierrype></pre> |
| 674 | |
| 675 | <pre>cpremis:agentName>ePADD</pre> |
| 67.6 | <pre><pre>sagentType>software</pre></pre> |
| 677 | <pre><pre>cpremis:agentVersion>Release 10-alpha</pre></pre> |
| 678 - | |
| 679 😑 | <premis:rights version="3.0" xmlid="AAAAG"></premis:rights> |

New features: Export

Previous ePADD versions

- Appraisal module export included only post-appraisal data for processing module
- Key preservation info

 e.g. MBOX structure,
 duplicates/folder names
 etc. not included

After ePADD+ Project

- 'Preservation ready' Bag structured to include multiple exportable assets including:
 - Full MBOX structure
 - Canonical version of archive
 - Derivative versions
 - Additional sidecar files
 - Metadata

New features: Emailchemy integration



New features: Emailchemy integration

Previous ePADD versions

- Conversion to mbox format required outside of ePADD application

After ePADD+ Project

- On purchase of an Emailchemy licence and creation of dongle
- Conversion to mbox from multiple email formats can take now place within ePADD
- Conversion of appraised or processed files to EML format is also possible on export

Getting started

Installation, user guide, and workflows

New website

www.epaddproject.org



ePADD is free and open source software developed by Stanford University's Special Collections & University Archives that supports the appraisal, processing, preservation, discovery, and delivery of historical email archives. ePADD incorporates techniques from computer science and computational linguistics, including machine learning, natural language processing, and named entity recognition to help users access and search email collections of historical and cultural value.



Sample institutional workflow - Harvard University



Getting involved

ePADD community members unite!

Steering group

Join the Steering Group to:

- Advance the ePADD roadmap through collective efforts and strategic grant applications
- Collaborate with other ePADD users on improving documentation and enhancing user guidance
- Share ideas on workflows, projects, and more

Bi-monthly meetings:

- Tuesday, 11 July 2023, 11am -12pm ET
- Tuesday, 12 September 2023, 11am - 12pm ET
- Tuesday, 12 December 2023, 11am - 12pm ET

Code group

Join the Code Group to:

- Learn how to contribute to the ePADD codebase
- Help address maintenance and security issues with the tool
- Merge your enhancements in a sustainable way
- Improve code documentation and testing

Monthly open meetings:

- Thursday, 6 July 2023, 10am-11am ET
- Thursday, 14 September 2023, 10am-11am ET
- Thursday, 12 October 2023, 10am-11am ET
- Thursday, 9 November 2023, 10am-11am ET
- Thursday, 7 December 2023, 10am-11am ET

Join the ePADD community!

Stay informed

- → Website epaddproject.org
- → ePADD listserv
- → Twitter: @e_padd

Get involved

- → ePADD steering group
- → ePADD code group
- → Share your workflows & use cases



Questions, comments, discussion

Thank you!

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