

This user guide is deprecated - for the most up to date information on using epadd, please refer to the

CURRENT USER GUIDE

ePADD Installation and User Guide

October, 2022

Version 9



ePADD is a software application that supports archival processes around the appraisal, ingest, processing, discovery, and delivery of email archives. It is open source and licensed under an Apache Public License, v2.0. The latest information about the software can be found <u>here</u>.

ePADD development is managed by Stanford University's Department of Special Collections & University Archives, in collaboration with partners at Harvard University and the University of Manchester.

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1/31/2018	7.0	Guide updated for all modules reflecting major changes in 7.0 final release	
7/29/2019	7.1	Guide updated for all modules reflecting changes in 7.1 release	
2/20/2020	7.2	Guide updated for all modules reflecting changes in 7.2 release	
5/29/2020	7.3 beta	Guide updated to reflect major changes in 7.3 beta release	
6/29/2020	7.3	Guide updated for all modules reflecting changes in 7.3 release	
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1 Overview

Welcome to ePADD, the all-in-one email appraisal, processing, discovery, and delivery solution for donors, archival repositories, and researchers. This installation and user guide will assist the new ePADD user in making the most of the program.

ePADD consists of four modules – Appraisal, Processing, Discovery, and Delivery – which are designed to facilitate the process of working with email archives. The application runs in a user-friendly and familiar web browser interface:

Appraisal: Allows creators, dealers, and curators to easily gather and review email archives on a local server (to ensure privacy) prior to transferring those files to an archival repository.

Processing: Provides archivists with the means to arrange and describe email archives on a local server.

Discovery: Provides the tools for repositories to remotely share a redacted view of email archives with users through a public web server discovery environment.

Delivery: Enables archival repositories to provide moderated full-text access to unrestricted email archives within a reading room environment on a local server.

2 Getting Started

This section will get you started working with ePADD from installation through navigating the software platform.

2.1 System Requirements

OS: 64-bit, Windows 7 SP1 / 10, Mac OS X 10.13 / 10.14, Ubuntu 16.04

Memory: > 8 GB RAM

Browser: Chrome 68 or later, Firefox 59 or later.

Java: Java Runtime Environment 64-bit, version 8 or later required.



2.2 Installing ePADD

ePADD has been optimized for Windows 10, Mac OS X 10.14, and Ubuntu 16.04 machines.

Follow the instructions below for your operating system.

Users are advised to remove previous versions of ePADD before installing a new version. To do so, delete the folder:

On Windows: C:\Users\<username>\epadd-settings Mac: /Users/<username>/epadd-settings

2.2.1 Installing ePADD on Windows

Please download the latest ePADD distribution files (.exe) from https://github.com/ePADD/epadd/releases/. You will need to have the Java Runtime Environment version 8 or later installed on your machine for ePADD to work properly.

When you run ePADD for the first time, a directory for the Appraisal Module is created to store working files. When ePADD starts up, it checks this directory and relies upon it to resume earlier work. If the software does not locate this directory, ePADD will create it. The ePADD Appraisal Module directory is located at c:\users\<username>\epadd-appraisal.

File Ed	it Search View Encoding Language
Macro	Run Plugins Window ?
ි 📥	🗄 🖻 🗟 🐚 🚔 🖌 🛍 🛅 Ə 🗲
🔚 epadd	properties 🔀
1	epadd.base.dir=Z:/epadd/
2	epadd.mode=appraisal
3	
4	
5	

Example of the custom configuration file

Some settings can be configured using a custom configuration file, *epadd.properties*, which must be in plain text and created in the user's home directory (typically c:\users\<username>\). If the file is not present, ePADD will revert to the existing defaults.



Editing this file is only necessary if you wish to change the defaults, for instance, if your default directory does not contain enough space.

1) Using a text editor, edit the existing epadd.properties file.

2) Add to it from the following list of properties.

epadd.settings.dir= The location of the epadd-settings folder. The default is c://users/<username>/epadd-settings. Note the use of the forward slash in the configuration file.

epadd.base.dir= The location of the ePADD module folders (epadd-appraisal, epadd-processing, epadd-discovery, and epadd-delivery). The default is c://users/<username>/epadd-appraisal, etc. Note the use of the forward slash in the configuration file.

epadd.mode= Defines the default module upon opening ePADD. Value should be one of the exact strings, 'appraisal', 'processing', 'discovery', or 'delivery' (without quotes). Match is case insensitive. The default is appraisal.

admin= Defines the admin name and email address to appear on the debug screen. The default is Peter Chan, <u>pchan3@stanford.edu</u>.

3) Save the file.

Depending on your network permissions, you may be asked to allow ePADD access to your internet connection. ePADD requires an internet connection to download email from an email account using the IMAP protocol.

Upon running ePADD, the application icon icon will appear in the Windows Taskbar. If you do not see the icon, it may be hidden from view. Consult 'Windows help & learning' - https://support.microsoft.com/en-gb/windows - for more information. Right-click on the ePADD icon at any point to open an ePADD window or to quit ePADD.

Note: The Discovery Module is run through a separate distribution file:

Epadd-discovery-standalone.jar



This is accessible via <u>https://github.com/ePADD/epadd/releases/</u>. Be careful not to use the standard ePADD application in a discovery environment. The epadd discovery application should be used in a public discovery environment because it is more secure than the standard ePADD application. For example, it does not allow any modifications to the archive.

ePADD saves all data in folders in the c:\users\<username>\ directory, unless you have defined a different location using the epadd.properties file. We recommend as best practice making periodic backups of all ePADD related folders in this directory, which may include: epadd-settings, epadd-appraisal, epadd-processing, epadd-discovery, and epadd-delivery.

Note: Depending on your system RAM, ePADD allocates up to 64GB RAM to the application by default. If you wish to run a non-standard amount of RAM, you may wish to run the Java application directly from the command line (epadd-standalone.jar). From the Command Prompt, you can run the application using this command: java -Xmx#g -jar epadd-standalone.jar, where # identifies the amount of RAM (in GB) you wish to allocate.

Note: The user can optionally create and modify a named entity kill list to suppress text strings that ePADD has identified as entities from appearing as such within the software. To do so, create a text file titled 'kill.txt' in the ePADD-settings folder. Each line of the document should contain a single named entity. Save the file and restart ePADD. The entities you listed should be suppressed.

2.2.2 Installing ePADD on OSX

Please download the latest ePADD distribution files (.dmg) from <u>https://github.com/ePADD/epadd/releases/</u>.

When you run ePADD for the first time, a directory for the Appraisal Module is created to store working files. When ePADD starts up, it checks this directory and relies upon it to resume earlier work. If the software does not locate this directory, ePADD will create it. The ePADD Appraisal Module directory is located at Macintosh HD/Users/<username>.

😑 😑 📄 epadd.properties 🗸
epadd.settings.dir=Z:/ <u>epadd/epadd-settings</u> epadd.base.dir=Z:/epadd epadd.mode=appraisal admin=abc, abc@abc.com

Example of the custom configuration file



Some settings can be configured using a custom configuration file, *epadd.properties*, which must be plain text and created in the user's home directory (typically HD/Users/<username>/). If the file is not present, ePADD will revert to the existing defaults. Editing this file is only necessary if you wish to change the defaults, for instance, if your default directory does not contain enough space.

Follow the following steps to edit the configuration file.

1) Using a text editor, edit the existing epadd.properties file.

2) Add to it from the following list of properties:

epadd.settings.dir= The location of the epadd-settings folder. The default is <HOME>/epadd-settings.

epadd.base.dir= The location of the ePADD module folders (epadd-appraisal, epadd-processing, epadd-discovery, and epadd-delivery). The default is <HOME>/epadd-appraisal, etc.

epadd.mode= Defines the default module upon opening ePADD. Value should be one of the exact strings, 'appraisal', 'processing', 'discovery', or 'delivery' (without quotes). Match is case insensitive. The default is appraisal.

admin= Defines the admin name and email address to appear on the debug screen. The default is Peter Chan, <u>pchan3@stanford.edu</u>.

3) Save the file.

Depending upon your network permissions, you may be asked to allow ePADD access to your internet connection. ePADD requires an internet connection to download email from an email account using the IMAP protocol.

In Mac OSX, the application icon 👹 will appear in the OSX Finder Toolbar. Right-click on this icon at any point to open an ePADD window or to quit ePADD.





ePADD requires an internet connection to download email using the IMAP protocol

Note: The Discovery Module is run through a separate distribution file epadd-discovery-standalone.jar, accessible via <u>https://github.com/ePADD/epadd/releases/</u>. Be careful not to use the standard ePADD application in a discovery environment. The epadd discovery application should be used in a public discovery environment because it is more secure than the standard ePADD application. For example, it does not allow any modifications to the archive.

ePADD saves all data in folders in the Macintosh HD/Users/<username>/ directory. We recommend as best practice making periodic back-ups of all ePADD related folders in this directory, which may include: epadd-settings, epadd-appraisal, epadd-processing, epadd-discovery, and epadd-delivery.

Note: Depending on your system RAM, ePADD allocates up to 64GB RAM to the application by default. If you wish to run a non-standard amount of RAM, or if your installation is running more slowly than you would expect, you may wish to run the Java application directly from the command line (epadd-standalone.jar). From the Command Prompt, you can run the application using this command: java -Xmx#g -jar epadd-standalone.jar, where # identifies the amount of RAM (in GB) you wish to allocate.

Note: The user can optionally create and modify a named entity kill list to suppress text strings that ePADD has identified as entities from appearing as such within the software. To do so, create a text file titled 'kill.txt' in the ePADD-settings folder. Each line of the document should contain a single named entity. Save the file and restart ePADD. The entities you listed should be suppressed.



2.2.3 Compatibility Note

Important: Releases from 6.0 onward package all email archive files using the BagIt specification, and are not backwards compatible with previous releases earlier to v. 5. Users should migrate v. 5 ePADD folders using the script available via https://github.com/ePADD/epadd/releases.

ePADD 5.0 is not compatible with previous versions. Please contact Peter Chan (<u>pchan3@stanford.edu</u>) for assistance in migrating from v4.1 to v5.0.

2.3 Running ePADD

To run ePADD, simply double-click the executable file.

2.4 Selecting a Module

The first time you run ePADD, it will default to the Appraisal Module. For testing, this may be changed by manually pointing the browser to localhost:9099/epadd/switch-module. However, for production, it is best practice to first close ePADD, and change the default module using the epadd.properties file (see section <u>2.2: Installing ePADD</u> in this guide for more details on configuring ePADD).

Note that an email archive must first be ingested into ePADD and exported through the Appraisal Module before it can be accessed in the Processing Module, and exported once again to the Discovery and Delivery Modules before it can be accessed in those modules.

ADVANCED (FOR DEBUGGING ONLY)	
SELECT EPADD MODULE	
PROCESSING	*
You can control this mode from the epa	• add.properties file.

Selecting a module during testing by navigating to localhost:9099/epadd/switch-module



The four modules are:

Appraisal Module – Provides creators, curators, and archivists with a toolset to load, review, and manage an email archive on a local server prior to accessioning that archive to a repository. The module includes various methods to help a user determine the relevance and importance of email messages, to identify and flag sensitive messages, and to impose restrictions on access. Email can be exported from this module to the Processing Module.

Processing Module – Enables an archivist to organize and edit an email archive on a local server following the initial appraisal of materials. Includes the ability to annotate messages, to identify and flag sensitive information, to further refine entity extraction, and to approve/assign authority headings. Email processed through this module can be exported to the Discovery and Delivery Modules. (Note that the Discovery Module is downloaded and run separately; see sections <u>3.7</u>: Exporting Email to the Processing Module and <u>5.2</u>: Mounting the Discovery Module Under a Web Server for further information).

Discovery Module - A separate, public web-based discovery environment designed to allow remote users to search email correspondents, headers, and extracted entities, while limiting full-text access to the materials.

Delivery Module – Provides end users with a suite of sophisticated search functionalities to query and review the full content of unrestricted email messages in a collection. This is a client-facing module that is designed to provide mediated access to the processed email archive on a local server running on a managed workstation.

Note: While users can access a Discovery Module from the settings menu, implementing the module from a web server to provide public access requires additional work. Additional information about the Discovery Module can be found in *Section 5*.

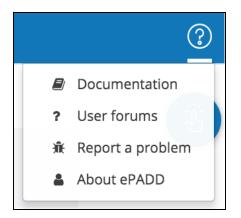
Note: We have designed ePADD with the expectation that a given workstation will typically run one specific module at a time, though we recognize this will not always be the case. If you are exploring ePADD for development purposes, and planning to run multiple modules on a single workstation, you may navigate between modules by manually navigating to localhost:9099/epadd/switch-module using the web browser address bar. Please note that it is always best practice to close the archive using the 'Close' header menu option, and to fully quit ePADD, before beginning work in another module.



Please note that it is always best practice to fully quit ePADD and restart ePADD before beginning work in another module. You *must* fully quit and restart ePADD in order to switch to another module from either the Discovery or Delivery module.

2.5 Navigating ePADD

The navigation bar at the top of the screen will present you with primary menu options aligning with the functionality of a particular module. Selecting one of these primary menu options will bring you to a sub-menu offering the potential to carry out related tasks. ePADD is flexible and does not require that the user navigate through a given module in any particular order. Links to documentation, user forums, and other helpful information can be found via the **Help** dropdown located in the far right of the navigation bar.



Documentation and other information can be accessed from the Help dropdown

Collections in Processing, Discovery, and Delivery can be closed, and the users return to the collection browse menu, using the 'Close' header menu option, providing additional clarity when working with multiple collections. Note: As always, the user can only work with one collection at a given time.

Additionally, users must manually save their work in Appraisal, Processing, and Delivery, using the 'Save' header menu option.

The user can generate a link to a specific message within a given module by selecting the 'Link' option, next to the unique message ID. The generated link appears in the address bar. After loading a collection, pasting the link will take you immediately to that message.

More settings may be available under the **More** option on the Browse screen, including verifying the bag checksum. This function will verify that the checksum of the bag is



consistent with ePADD's expectations. This may be especially helpful to ensure that an email archive transferred from a donor has not been corrupted or otherwise tampered with.

We recommend keeping regular backups of your epadd-appraisal, epadd-processing, and/or epadd-delivery folders in case of file corruption.

You can view more information about the archive by clicking on the information button adjacent to the email archive title at the top of most pages: (?)

CPADD Import Browse Search Export	Save			0
	Appraisal Dashboard			(3)
	Email Archive of J	eb Bush	٢	•
	8	63	♦	
	9,838 Correspondents	8,120 Entities	8 Labels	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	l	8	
	<b>1,003</b> Image Attachments	<b>2,126</b> All attachments	<b>4</b> Folders	
	B	Ē	000	
	Lexicon Search	Reports	More	

Archive Owner Name: Jeb Bush			
Archive Owner Email: jeb@bush-brogan-2002			
Date Range 1970-01-15 to 2011-01-09 1 message undated			
Messages: <b>3,313</b>			
Sent by owner: <b>1,126</b>			
Attachments: 481			
Images: <b>138</b>			
Documents: 289			
Others: <b>54</b>			

Г



To view additional statistics for the email archive, select the **Reports** option from the Browse menu.

Tips and other helpful information can be accessed on many screens by selecting the help drawer button located in the top right corner of a screen:

Sepadd 🕼 Lexicon Tips Appraisal | Lexicon Hits: sensitive exicons are customizable sav containing categories of keywords **Richard Fikes email archive** ĵ Define the default lexicon using the config.properties file. Selecting a lexicon category from this scree will display the messages containing keywords in that category. 到一 口 Select a different lexicon using the Choose Lexicon dropdown Health 330 Lexicons can be viewed in detail and edited by selecting the View/Edit Lexicon button. Legal 210 Create a new lexicon by selecting the Create New Lexicon button. Personal 204 203 Employment Addictive pharmaceutical drug use 67 Student 64 Personally Identifiable Information 30 Crime 0 Recreational and performance enhancing drug use ving 1 to 9 of 9 entries

An example of a screen which provides helpful information accessed via the help drawer.  $^{oldsymbol{6}}$ 

# 3 Appraisal Module



#### **Appraisal Navigation Bar**

The **Appraisal Module** provides creators, curators and archivists with a robust toolset to load, review and manage the email of an individual (or optionally, a group of individuals) prior to accessioning that mail to a repository. The module includes various tools to help a user determine the relevance and importance of email messages, to identify and flag sensitive messages, and to impose restrictions on access.



### **3.1** Importing email

The Appraisal module is the default module (although this can be adjusted using the epadd.properties file). When first launched, you will find yourself on the **Import** screen. This interface is where you enter information (name and an associated email address) about the owner of the email account (optional), as well as specify the location and account info, if applicable, of the MBOX files or IMAP email accounts that ePADD will be ingesting for review and potential transfer to an archival repository. You can select multiple accounts, as well as multiple MBOX files, by selecting the *Add another account* or the *Add* another *folder* buttons. Note that many email clients do not allow incoming IMAP connections due to their security settings, before attempting an import using IMAP, verify that your account will allow it.

About this archive	
Name of archive owner	Primary email address
Robert Creeley	creeley@buffalo.edu
Section Archive title	
Robert Creeley papers - Email series	
Public Email Accounts (Gmail, Yahoo, Hotmail,	Live.com, etc)
Email Address	At Password
+ ADD ANOTHER PUBLIC IMAP EMAIL	LACCOUNT
Private Email IMAP Accounts (Google Apps, un	niversity account, corporate account, etc.)
IMAP Server	
Email Address	4 Password
+ ADD ANOTHER PRIVATE IMAP EMA	IL ACCOUNT
Mbox files	
Folder or file location	Rame of email source
BROWSE	
+ ADD ANOTHER FOLDER	
c	

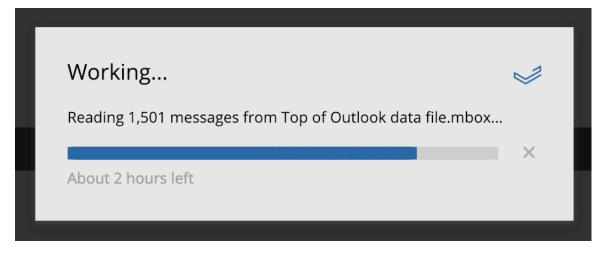
ePADD works with MBOX files as well as IMAP email accounts



Completing the *Name of email source* enables users to explore email by source after import, either by using the new *Folder View*, or by specifying the *Email Source* in Advanced Search. For ingest of email through IMAP, the email account is used as the source name. Please ensure all relevant information has been filled out before pressing the *Continue* button at the bottom of the screen.

Note: Some IMAP-supported services may require you to confirm through email, text message, or some other means that the login attempt is authentic. Depending on the service, this may require the user to temporarily modify security settings to allow ePADD access.

Additionally, if this is your first time loading these email sources, and especially if you have selected to download mail from an IMAP account, it may take some time for ePADD to perform this initial step.



ePADD will estimate how long it will take to load the selected email files

Once one or more email sources have been loaded, ePADD will give you the opportunity to select or deselect individual email folders associated with accounts, as well as specify a date range to review.



s e	PADD Import	?
	/Users/jschne/Desktop/Desktop late october 2018/Desktop/ePADD workshop/Bush example/Mbox1/01jan.mbox (1 folder(s), 1839 message(s), 45151 KB)	
	O1Jan.mbox (1839)	
	NEXT→	

**Confirming Selection of Email Sources** 

Once you have confirmed the mailboxes you would like to review for transfer, click the *Next* button. Depending on the size of the accounts/folders selected, this next step may take some time as ePADD imports and deduplicates messages and performs a variety of additional steps intended to allow the user rich access to the email archive.

Note: No further steps are required to export the email archive to an archival repository at this point, if you so choose. To export at this time, proceed to **Section 3.4 Exporting Email**.

If you receive an error during the import process and need to start again, you can delete a collection from within the Appraisal module. Click on the information button - () - which is located to the right of the email archive's title on the ePADD dashboard:

Appraisal	Dashboard	
Stanford University	Email Archives of Joe Smith	All Messages

And then click 'Delete', which is located in the bottom left of the 'Information about this Archive' dialog box:



() Information about this Archive	×
Archive Owner Name:John Rylands Archive Owner Email:John Rylands Date Range: 2017-02-15 to 2018-11-19 Messages:13 Sent by Owner:0 Attachments:16 Images:3 Documents:13 Others:0	
Metadata:	
DELETE	CLOSE

Alternatively, users can also delete the relevant directory manually by removing the epadd-appraisal folder from the user directory. This folder can be found:

On Windows: C:\Users\<username>\epadd-<module>\ On Mac: /Users/<username>/epadd-<module>\

If you delete the directory manually (not from within ePADD as described below), then make sure ePADD is not running; otherwise, you get a *folder in use* error. You can stop ePADD by going in your browser to localhost:9100.

This method - deleting the directory manually - can be used at any point if you need or want to start again.

### 3.2 Reviewing Email

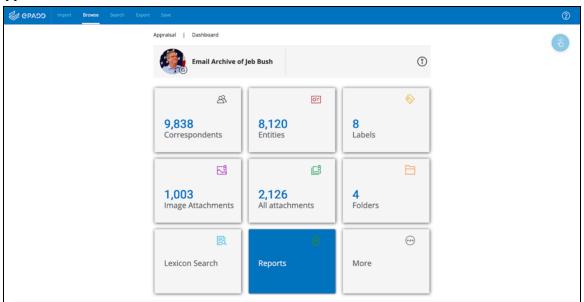
The Appraisal Module provides the user with a diverse set of tools for reviewing and assessing email prior to transfer to an archival repository.

As a first step, the user should review the **Reports** option from the Browse menu.

This screen will present information about the email, including duplicate messages deduplicated by ePADD, and any potential errors identified by ePADD, such as missing



headers and dates. Messages containing potential errors are listed on this screen by error type.



Jump to Errors	Import #1
Import Date: 2019-01-25 10:20:02 Pacific SI	ard Time
Fetch and index time: 6 seconds	aid fine
Archive Owner: Fikes small	
Primary Email Address:	
Archive Title: Fikes small	
Email Sources:	
Selected folders: 1	
/C://epadd data/Fikes/2007-277: (mbox:C:\/	ld data\Fikes\2007-277\1998 messages:1151)
selected_messages: 0, filtered: 0, imported	
No message filter	
Messages span: 1990-10-09 to 1997-11-18	
Space saved from detecting duplicate attac	ents: 286KB
Summary of error types:	
1 messages with no date	
10 attachments with no filename	
47 duplicate messages	
1 duplicate attachments	
230 other errors	

The error itself is assigned to the message as a label. To view the set of messages with a particular label, select the Labels option from the Browse screen, then select the label with the associated error type.



ଢ଼∣ ⊉   ⊕				Search:		Shov	v 10 🔻	entries
Label	÷	Туре	•	Messages	Å	Actio	ons	÷
Do not transfer		Restriction		0		ŵ	1	
Other errors while parsing		General		230		â		
Errors in attachments		General		10		â	1	
Errors in correspondents		General		2		(h	1	
No Date		General		1		ß	1	
Reviewed		General		0		۵	団	
Cleared For Release		General		0		â	1	
Possibly Bad Date		General		0		(d)	th:	

Errors may have been generated during creation (in case of older email), transfer, or migration. Ascertaining where the error occurred may require technical expertise or assistance.

With the exception of reviewing the report and potentially investigating possible errors, there is no set order to perform the following steps. In fact, different email archives will benefit from different approaches.

The various tools ePADD provides to assist in email review are described below.

### **3.2.1** Browsing Email Messages

After loading email into ePADD, the program opens the **Browse** screen as the default view. The user can also navigate to the **Browse** screen from the Appraisal Module Menu. From this screen, the user can browse All Messages (which allows users to browse all messages in the collection, one-by-one);by Correspondent; by Person or Other entities; by account folder structure; by Lexicon categories; or by whether messages include Image Attachments, Other Attachments; or contain sensitive information (identified through regular expressions).

### **3.2.2** Browsing All Messages

Users can browse all messages in a collection by clicking on 'All Messages', which is located in the banner at the top of the ePADD dashboard:



Appraisal	Dashboard		
Stanford University	Email Archives of Joe Smith	All Messages	)

### 3.2.3 Editing Correspondents

ePADD automatically merges identities for a single correspondent by intelligently analyzing headers. This step helps clarify relationships between email correspondents to allow for higher-level analysis of the email archives.

Sepadd	Import	Browse	Search	Export	Save				0
					Appraisal   Dashboard				iš
					Email Archive of	Jeb Bush		١	
					岛	63		\$	
					<b>9,838</b> Correspondents	8,120 Entities	<b>8</b> Labels		
						Ľ			
					<b>1,003</b> Image Attachments	<b>2,126</b> All attachments	<b>4</b> Folders		
					B	E		000	
					Lexicon Search	Reports	More		



CPADD Import Browse Search Export Save		
Appraisal   Correspondents		
Richard Fikes email archive		٩
السلم       السلم       السلم       الملح       الملح    <	Search:	Show 10 ¢ entries
Name	Incoming messages	Outgoing messages 🗸 Mentions 🔅
Kathleen Shanahan	160	141 408
Langford, Brandi	21	60 89
Bratina, jill	32	55 130
Hampton, Betty	0	48 56
Wainwright, Tara	0	46 49
Charla Sasser	0	45 40
Stutler, Denver	17	38 68
Raquel Rodriguez	21	32 23
Dana, Pam	78	31 82
Eli Ferrera	25	26 17
Showing 1 to 10 of 1,743 entries		Previous Next

Users can also graph, edit, and export, and re-import the address book using the buttons available from the **Browse Correspondents** screen.

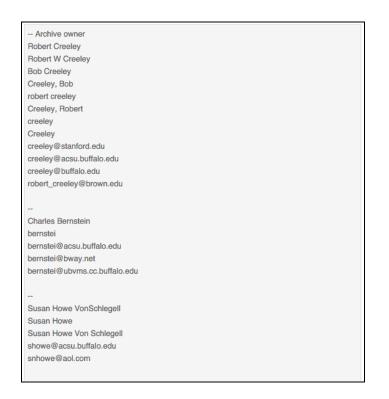
### 3.2.3.1 Editing Correspondents

ePADD allows the user to confirm or correct the identities of correspondents that ePADD has resolved through its analysis in order to improve the functioning of the actions that depend upon this behavior.

To do so, navigate to the **Edit Correspondents** screen by selecting the Edit Correspondent button:  $\vec{h}$ . This screen allows the user to view and edit the email address(es) and name(s) associated with each correspondent. The default view of this screen lists all correspondents by volume of messages exchanged, but the correspondents can also be listed alphabetically using the dropdown selection at the top of the screen. If there is a single archive owner, they should always be the first individual listed.

Note: As a first step, we recommend downloading the correspondent file before making any edits, as some changes are irreversible.





ePADD allows the user to confirm or correct the identities of correspondents that ePADD has resolved using the Edit Correspondents screen

If names or addresses are incorrectly associated with the wrong individual, you can manually cut and paste them underneath a different entry.

ePADD recognizes header information identifying messages as being sent from a mailing list where that information is available. These messages are differentiated from other correspondents in the Edit Correspondents screen under the heading '-- [ML]' Additional mailing list addresses can be manually identified and added under this heading using the Edit Correspondents interface. Users can also define the default display name for a correspondent when editing correspondents. ePADD interprets the first name listed as the default display name. If you would prefer a different name as the default display, simply add it to the top of the list. **Note: Re-ingesting email will overwrite any user changes. Please be sure to keep track of which addresses have been marked as mailing lists if planning to reingest email.** 

When you have completed your work editing correspondents, press SAVE.

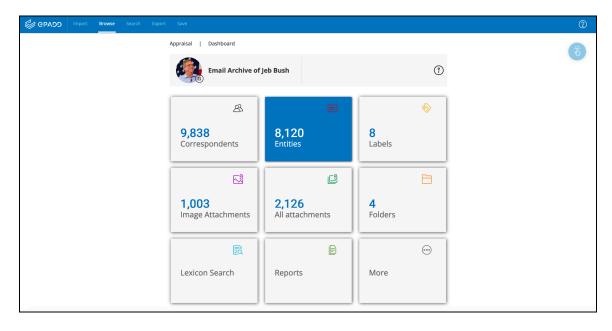
You can also edit the address book offline, using the export/import functionality available within ePADD.



Select the graph button in to view a graph of top correspondents. Drag and drop a bounding box over the X axis to zoom in on a time period.

### 3.2.4 Performing Entity Analysis

ePADD identifies, extracts, and manages entities using a custom natural language processing toolkit. The extracted entities include persons, fine-grained entities such as corporations and government agencies, as well as other entity types such as diseases, awards, and events. Extracted entities can be reviewed by navigating to **Entities**, accessible under the **Browse** menu option from the navigation bar.



### 3.2.4.1 Reviewing Fine-Grained Types

To review fine-grained types such as universities and governmental agencies, or other entity types such as diseases and awards, select **Entities** from the Browse menu. You can optionally download a CSV containing all entities and associated metadata (# of messages, score, date range, and entity type) from this screen.



Entity Type	¢	# entities 🔻
Person		670
Place		164
Organisation		41
University		36
Company		35
Periodical Literature		23
Government Agency		16
Road		8
River		7
Legislature		6
Showing 1 to 10 of 25 entries		Previous Next

### Fine-grained entity types, accessible through the *Entities* option on the browse screen.

CPADD Import Browse Search Export Save			
Appraisal   List University entities			
<b>Richard Fikes email archive</b>		(1)	
		Search:	Show 10 ¢ entries
Entity	¢	Score 👻	Messages 🔻
University of Florida		1	10
Charter School		1	9
Florida State University		1	9
Florida Atlantic University		1	7
University of Central Florida		1	7
University of South Florida		1	6
University of Miami		1	6
University of Michigan		1	5
University of Florida College of Nursing		1	5
University of West Florida		1	5
Showing 1 to 10 of 103 entries			Previous Next

Select an entity type to view all of the entities recognized as belonging to that type.

Select an entity to view the set of all messages including that entity. Users can also download all entities of a particular type and associated metadata (# of messages, score, inclusive message dates) from this screen; or also choose to edit entities associated with a particular entity type.



### **3.2.4.2** Editing Entities

Users can edit or merge entities in a given category from the entity browse screen, by selecting the 'Edit entities' option:  $\Box$ 

GPADD Import Browse Search	Export Save	0
Appraisal	Edit entities	*
	Richard Fikes email archive	0
		\$
	 University  College  University of Florid  Florida State Unive  Florida State Unive  Florida Atlantic Uni  Florida Atlantic Uni  Florida Atlantic Uni  Florida Atlantic Uni  Florida Community  UCF Film School   University of Centr  High School   Sunday School  Sunday School  	

The user can merge entities by grouping them together using find, cut, and paste commands. Unmerge entities by separating them using find, cut, and paste commands. The first entity name listed within each group of entity names is the one ePADD will display in all search and browsing results and visualizations. Manually change this display name by moving a new name to the top of this list. Alternatively, you can supply a new entity display name to the top of the list. This supplied entity name does not need to appear in the email archive. The user can view the individual entities that have been merged with a given entity by hovering over that entity from the Entity Types screen.

The user can optionally create and modify a single entity kill list to suppress text strings that ePADD has identified as entities from appearing as such under any entity category. To do so, create a text file titled 'kill.txt' in the ePADD-settings folder. Each line of the document should contain a single named entity. Save the file and restart ePADD. The entities you listed should be suppressed.



### **3.2.5** Performing Lexicon Analysis

CPADD Import Browse Search Export	Save			
	Appraisal   Dashboard			
	Email Archive of J	Jeb Bush		٢
	8	<u>=</u> ]	¢	8
	9,838 Correspondents	<b>8,120</b> Entities	<b>8</b> Labels	
		Ľ	E	
	<b>1,003</b> Image Attachments	<b>2,126</b> All attachments	<b>4</b> Folders	
	B		(	
	Lexicon Search	Reports	More	

ePADD employs lexicon analysis to search email messages for terms associated with personal or restricted information, which might indicate the need for further review. ePADD ships with several default lexicons. The 'Sensitive' lexicon can be used to assist in the identification of email messages with the potential for confidential content. In release 1.1 ePADD introduced a 'Sentiment' lexicon, to aid the user in performing sentiment analysis on the corpus. Beginning with release 2.0, ePADD includes a variety of additional lexicons developed by a Lexicon Working Group feedback. Additional information about this group, and about the lexicons shared, is accessible here.

The user can make persistent changes to any lexicons, or start afresh by building a new lexicon.

The **Lexicon Browse** screen is accessible under the Browse Menu screen from the Appraisal Module navigation bar.



🕼 QPADD	Browse	Search	Save	Close		
				Delivery   Lexicons		
				Richard Fikes email archive	Institution: Stanford University Collection ID: SC0881	1
					Search:	
				Lexicon	\$	Number of Categories 👻
				persona.environmental.artist.projects.stanford		50
				sentiments		42
				persona.academic.administrator.sensitive.duke		8
				persona.composer.nypl		6
				general		5
				persona.faculty.ucl		4
				persona.writer.theater.nypl		4
				persona.author.princeton		3
				persona.microbiologist.uiuc		3
				regex		3
				persona.journalist.activist.politics.and.travel.ucb		2
				Showing 1 to 11 of 11 entries		

Users can create a new lexicon, import a lexicon from outside ePADD, or view a current lexicon from the Lexicon Browse screen. Click on an existing lexicon to view the included categories of terms and number of hits for each category.

🕼 QPADD	Import	Browse	Search	Export Save	
				Appraisal   Lexicon Hits: sensitive	
				Richard Fikes email archive	3
				Щ U	Search:
				Lexicon category	Messages
				Health	330
				Legal	210
				Personal	204
				Employment	203
				Addictive pharmaceutical drug use	67
				Student	64
				Personally Identifiable Information	30
				Crime	0
				Recreational and performance enhancing drug use	0
				Showing 1 to 9 of 9 entries	



From a particular lexicon page, you can choose to view a graph of the results, or edit the existing lexicon. Or, you can select a category to view all messages that contain a term included in that category.

### *3.2.5.1* Editing a Default Lexicon

GPADD	mport Browse Search Export Save	0
	Appraisal   Lexicon: sensitive	1. I
	Richard Fikes email archive	
	$\oplus   \oplus   \boxplus  $	
	Personally Identifiable Information 🛅 🛱	
	"social security" issn "credit card" "driver's license" ild visa i"master card" i "american express" ipassport i "bank account number" i "credit card number" i "discover card" i "medical id" i "bank of america" i CapitalOne i "Bank of the West" i "Wells Fargo" i "Credit Union" IDOB i "date of birth" i pcard i "procurement card"	
	Employment 🗇 전	
	"performance appraisal" ("performance evaluation" ("performance review" (promotion ("annual review") confidential (tenure) salary (recommendation) ("reference letter" (grievance) fired ("let go") terminated (demotion (layoff) ("letter of support") "search committee" (nomination) grievance) harassment (complaint) (harass) "sexual	
	Student ඕ 접	
	grade ["education record" [transcript] "student number" ["student id"   expel   probation   "academic probation"   cheat   "academic fraud"   plagiarize   "underage drinking"   underage   'underage drinking"	
	Health 🖄 🛱	
	sick        liness   sickness   medica  surgery   endoscopy   hospita   unwell    depressed   injure   hurt   injury   injured   injurious   doctor   surgeon   surgica    clinic   lethal   suicid e   laceration   traumatic   schizophrenic   disfigure   radiation   medicine   wound   foetus   fetus   feta    injure   disease   infection   vomit   puke   puking   seasick   carsic	
	Personal b 전	
	divorce   spouse   wife   husband   daughter   son   dad   mom   stepson   stepdaughter   affair   sex   secret   lover	
	Legal	
	lawsuit  "egal action"   litigation   lawyer   will   juvenile   accused   accuser   arraignment   criminal   offender   "criminal defense"   offender   defendant   Perpetrator   penalty   perjury   "sexual assault"   rape   rapist   fraud   theft   "physically threaten"   abuse   assault   "domestic	

The edit lexicon screen allows users to add categories, delete categories, download the lexicon for offline editing or sharing, or delete the lexicon entirely.

Users can also test categories to view the number of hits for each term in the category. This can be helpful in discovering whether a particular term is too broad or narrow to be helpful.

**Please note:** New entries in a category should be separated with the | (pipe) character. Multi-word phrases should be enclosed in double-quotes. Note that words and phrases with hyphens, such as father-in-law, should be placed in quotes.

When you have finished making changes, select the *Save* button.

Users can export lexicons using the Export Button, to install them for use with other collections or share them with another institution. In this way, these lexicons can be reused across collections and ePADD instances. Default lexicons may be updated in future releases.



Expert Tip: The lexicon can also be used to categorize email messages based on topic.

The user **must** use the ePADD interface to add, remove, or update lexicons. This is because of how the bag checksum is calculated.

### 3.2.5.2 Reviewing Lexicon Analysis Results

ePADD allows a user to test the results of any category in order to ascertain whether a particular term is too general or too specific to be helpful.

🔮 GPADD	Import	Browse	Search	Export Save		
				Appraisal   Lexicon test		
				Richard Fikes email archive		(*)
					Search:	Show 10 ‡ entries
				Term	\$	Messages 🔻
				recommendation		104
				"search committee"		49
				appointed		45
				fired		39
				complaint		19
				"background check"		15
				"letter of support"		5
				"job offer"		4
				drunk		3
				"annual review"		2
				Showing 1 to 10 of 47 entries		Previous Next

Test terms contained in a lexicon category by selecting the test function  $\Box$  from the Edit Lexicon screen

Lexicon analysis results for a whole lexicon may be reviewed via Advanced Search. A user can also view lexicon analysis results directly by clicking category results from the Lexicon Table screen.



### 3.2.6 Reviewing Regular Expressions

🕼 GPADD	Import	Browse	Search	Export	Save			
				Appraisal	Lexicon Hits: regex			
				9	Richard Fikes email archive		٩	
				ы́ С	ک ا	Search	:	
				Lexicon cate	gory	\$	Messages 🔻	•
				Credit card	l number		0	
					security number		0	
				Showing 1 to 2	t of 2 entries			

To further aid in identifying potentially confidential materials, ePADD searches the archive for sensitive messages by searching for regular expressions such as social security numbers, and credit card numbers. Regular expressions are a customizable lexicon under the Lexicon Search browse category, selected from the lexicon dropdown menu. Note that since each lexicon category contains just one regular expression, results for each category display under Lexicon Search results. The user can find the form of many common regular expressions online; <a href="https://regexlib.com/">https://regexlib.com/</a> may be a helpful resource in this regard.

### 3.2.7 Reviewing Attachments

ePADD allows the user to browse and review email attachments. ePADD uses the Apache Tika toolkit to recognize a wide range of document formats. A complete list of formats recognized by Apache Tika can be found here.

### 3.2.7.1 Reviewing Image Attachments

Select **Image Attachments** from the Appraisal Module menu to navigate to the Image Attachments screen. Image attachments are displayed chronologically by year and are de-duplicated. The user can navigate between years using the left and right arrows at the top right of the screen. The user can switch between a grid and list view using the icons in the top right corner. Selecting the Message View button will open the set of all messages associated with the currently displayed set of attachments. Selecting an image attachment will give the user the option to directly access the related message. The user can also export the current set of attachments as a .zip file by selecting the download icon.

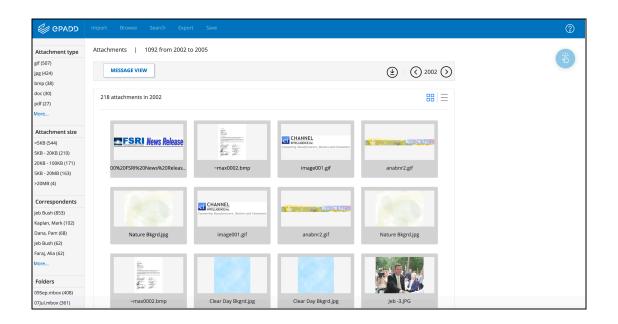
Facets on the left can be used to further refine the set of images displayed by certain criteria including attachment type, attachment size, correspondent, and folder. Note that facets are tied to the messages associated with the currently displayed attachments. If the user selects '.pdf' from the attachment type facet, the resulting set of image attachments will include all



attachments associated with messages that contain a .pdf attachment. This distinction means that the user will see attachments with other file types.

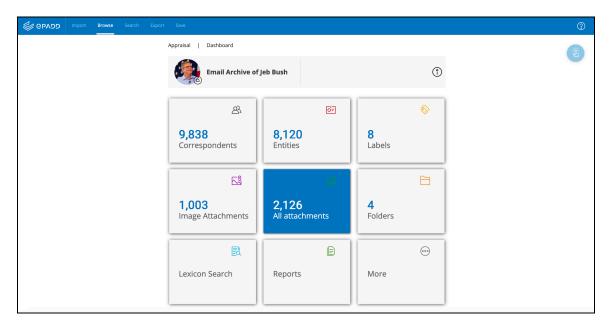
Pro-tip: You might use the file size and file type facets to exclude common non-controversial logos etc.

Browse Search Export	Save			0
	(3)			
	Email Archive of J	leb Bush		•
	8	<u>6</u>	<b>⊗</b>	
	9,838 Correspondents	<b>8,120</b> Entities	<b>8</b> Labels	
		Ľ	6	
	<b>1,003</b> Image Attachments	<b>2,126</b> All attachments	<b>4</b> Folders	
	B	Ē		
	Lexicon Search	Reports	More	





### 3.2.7.2 Reviewing All Attachments



Select **All Attachments** from the Appraisal Module menu at the top of the screen to navigate to the All Attachments screen. This screen will present all attachments associated with the email archive, which can be viewed in a grid or list view, or downloaded and viewed outside of the ePADD program.

As with the Image Attachments view, attachments are displayed chronologically by year and are de-duplicated. The user can refine the set of attachments using the facets. The user can navigate between years using the left and right arrows at the top right of the screen. The user can switch between a grid and list view using the icons in the top right corner. Selecting the Message View button will open the set of all messages associated with the currently displayed set of attachments. Selecting an attachment will give the user the option to directly access the related message. Note that ePADD does not provide native support for viewing non-image attachments.



Sepadd	Import Browse Search Exp	oort Save		
Attachment type	Attachments   2126 from 2002	to 2005		
doc (700) gif (507)	MESSAGE VIEW			( <u>€</u> 2005 ()
jpg (424)				
pdf (232)	1411 attachments in 2005			
xls (40)				
More				
Attachment size	RORDA	TORIDA		
20KB - 100KB (789)	Proceeding of the second secon	<b>T</b> and the	MEL MARTINEZ	
<5KB (596)	T	₹	and the second s	
5KB - 20MB (428)	image001.jpg	image001.jpg	image002.jpg	77228af.jpg
5KB - 20KB (289)				
>20MB (24)				
Correspondents				
Jeb Bush (1762)				
Kaplan, Mark (311)				
Finn, Deirdre (188)	ATT128874.txt	orl-locagwunobi01070105jul01,	SVS Press Release.06.22.05.doc	Second Circuit Judicial Nominat
Dana, Pam (161)				
Faraj, Alia (156)	=			Lauderhill
More	TLONDA	T.ORDA	e	A America Chr
Folders	Ŧ	T		NUL/
09Sep.mbox (733)	Ŧ	Ŧ		2005
07Jul.mbox (678)	image001.jpg	image001.jpg	070105 Marshall memo to BOD	image005.jpg

Sepadd	Import Browse Search Expor	rt Save		
Attachment type	Attachments   2126 from 2002 to	o 2005		
doc (700) gif (507) jpg (424)	MESSAGE VIEW			( 2005 )
pdf (232) xls (40)	1411 attachments in 2005			
More			Search:	Show 10 • entries
Attachment size 20KB - 100KB (789)	Subject $\phi$	Date 📥	Size  Attachment name	\$
<5KB (596) 5KB - 20MB (428) 5KB - 20KB (289)	US SENATE PASSES CAFTA 54-45 LATE LAST NIGHT	Jul 1, 2005	2 KB image001.jpg	
>20MB (24)	RE: Senators Martinez and Nelson support DR-CAFTA	Jul 1, 2005	2 KB image001.jpg	
Jeb Bush (1762) Kaplan, Mark (311)	RE: Senators Martinez and Nelson support DR-CAFTA	Jul 1, 2005	10 KB image002.jpg	
Finn, Deirdre (188) Dana, Pam (161) Faraj, Alia (156) More	Fwd: Poll: Florida Voters Say Bush Shouldn't Ask for Terri Schiavo Query	Jul 1, 2005	15 KB 77228af.jpg	
Folders 09Sep.mbox (733) 07Jul.mbox (678)	Fwd: Swiffer, Tide, Olay, Pringles, Crest - new in July 2005 P&G brandSAVER	Jul 1, 2005	11 KB ATT128874.txt	



### **3.2.8 Browsing Email Folders**

Browse Search Export	Save			0
	Appraisal   Dashboard			(3)
	Email Archive of	leb Bush	٢	
	8	6=	\$	
	9,838 Correspondents	<b>8,120</b> Entities	<b>8</b> Labels	
		Ľ	Ê	
	<b>1,003</b> Image Attachments	<b>2,126</b> All attachments	<b>4</b> Folders	
	B	E		
	Lexicon Search	Reports	More	

The user can navigate email messages by folder structure using the Browse Folders interface, accessible from the Browse screen.

🕼 GPADD		Browse	e Search Export Save		0
	Aş	opraisal	Folders		
			Jeb Bush email Archive	٢	
			Search: Show 10 ~	entries	
	9	Source	Folder     Folder     Folder     Owner	Total 🔫	
		nbox	C:\Users\mfsxepc2\jebEmails mboxfull-20220927T103720Z-001\jebEmails mboxfull\1999,pst11999\Top of Personal Folders\100ct.mbox	2297	
	Sh	owing 1 to 1	1 of 1 entries	Previous Next	

#### **Browse Folders interface**

If using Gmail, to ensure messages appear in the appropriate folder, please be sure to deselect the non-unique 'All Mail' folder during ingest for email ingested via IMAP.

## **3.3** Appraising Email

Once you have confirmed the identity of correspondents, edited the lexicon to your satisfaction, and reviewed entities and attachments, the next step is using the information you have learned to appraise individual email messages. ePADD provides the user with a



faceted search interface from which to annotate individual email messages and make appraisal decisions.

### **3.3.1** Reviewing and Creating Collection Metadata

ePADD allows users to add manually an extensive range of metadata associated with a particular email archive. First, click on the information button - - - which is located to the right of the email archive's title on the ePADD dashboard:

Appraisal	Dashboard	
Stanford University	Email Archives of Joe Smith	All Messages

This will open a dialog box entitled 'Information about this Archive'. Here, click on the edit button - 
- found next to the heading 'Metadata':

(î) Information about this Archive	×
Archive Owner Name: <b>John Rylands</b> Archive Owner Email: <b>John Rylands</b> Date Range: <b>2017-02-15</b> to <b>2018-11-19</b> Messages: <b>13</b> Sent by Owner: <b>0</b> Attachments: <b>16</b> Images: <b>3</b> Documents: <b>13</b> Others: <b>0</b>	
Metadata:	
DELETE	CLOSE



This presents you with a variety of metadata options:

Appraisal   Browse this Collection   Edit Metadata	
- 🖬 Collection ID: Unassigned	Collection EAD PREMIS
C:\ePADD email test - 1999.pst\1999\Top of Personal Folders\01Jan.mbox	Institution
	Repository
	Collection Title
	Short Title
	Collection ID*
	Finding Aid Link
	Catalog Record Link

On the tabs you can switch between Collection, EAD (Encoded Archival Description) and PREMIS. In the Collection metadata you can add some basic information about the collection, such as Collection Title, short description, and scope and content, as well provide links to online catalogue descriptions.



You can do the same with metadata elements associated with EAD by selecting the EAD tab:

Appraisal   Browse this Collection   Edit Metadata	
- 🖀 Collection ID: Unassigned	Collection EAD PREMIS
C:\ePADD email test - 1999.pst\1999\Top of Personal Folders\01Jan.mbox	Archival History
	Description (Scope / Content)
	Access
	Select One
	Embargo Review Date (yyyy-mm-dd)



And with PREMIS:

Appraisal   Browse this Collection   Edit Metadata	
Collection ID: Unassigned	Collection EAD PREMIS
C:\ePADD email test - 1999.pst\1999\Top of Personal Folders\01Jan.mbox	Preservation Level Role Select One
	Preservation Level Rationale Select One
	Environment Characteristic Select One
	Environment Purpose
	Select One   Environment Note
	Software Name

You can add or edit PREMIS metadata for an individual file, not just the whole collection, by selecting one of the files listed to the left of the metadata fields. This will present you with two tabs, 'File', where you can add notes about a particular file, and 'PREMIS', where you can add metadata relevant to that particular file:



ppraisal   Browse this Collection   Edit Metadata				
- Eucc	File PREM	IS		
C:\ePADD email test - 1999.pst\1999\Top of Personal Folders\01Jan.mbox	Preservati	ion Level Role t One	~	
	Preservati	ion Level Rationale t One	~	
	Preservatio	on Level Date Assigned (yyyy-mm-dd)		
	Compositi		~	
		Digest Algorithm		
	Select Message D		*	
	Message E	Digest Orginator		

PREMIS also has an XML schema that has been developed for preservation metadata. The xml file generated by ePADD is found in the folder 'user' in the directory:

On Windows: C:\Users\<username>\epadd-<module>\ On Mac: /Users/<username>/epadd-<module>/

The file epaddPremis.xml is located in In the folder 'data':

OS (C:) > Users	> Public > epadd-appraisal > user	
^	Name	^
* * *	<ul> <li>data</li> <li>bag-info</li> <li>bagit</li> <li>manifest-md5</li> <li>tagmanifest-md5</li> </ul>	



Here you can see an example of the xml file, which contains the manually added PREMIS metadata as well as some metadata automatically added by ePADD, such as date and time of ingest, number of attachments in the collection:



### 3.3.2 Searching Email Messages

Sepadd	Import Browse <b>Search</b> Export Save	(?)
	Appraisal   Search	Ü
	Richard Fikes email archive	
	Simple Search Multi-Entity Search Multi-Term Search Correspondent List Search search query	
	SEARCH $\rightarrow$	
	Need more search options? Try Advanced Search.	

To search the email archive, navigate to the Search screen from the Appraisal Module Menu.



Besides lexicons, accessible via the Browse page, ePADD supports five types of search: simple search, advanced search, multi-entity search, multi-term search, and correspondent list search.

To use the simple search feature, simply type in your query into the simple search box available on the initial search screen. This will search across message headers (correspondents and subjects) and message text, as well as the text of all document attachments.

Once you have entered your term(s) and made your selection, click the *Search* button. The search string will appear highlighted on the message browse screen.

Advanced Search enables the user to generate complex searches of email text, correspondents, attachments, and any actions previously taken on the messages, as well as a variety of other parameters.

	Advance	d Search
Text		
Terms		
🗹 Search body 🛛 Search subject 🗳	Search attachments 🛛 🗹 Search origi	nal text
Entity		
Correspondents Name or email		
🗹 To 🕑 From 🕑 Cc 🕑 Bcc		
Mailing List		
○ Yes ○ No O Either		
Attachments		
File Name		File Size
		CHOOSE FILE SIZE
Reg Ex		
Type SELECT		Other extension
SELECT	×	



Actions Annotation		Labels          SELECT A LABEL         More than one restriction label
Miscellaneous Time Range		Message Sender
YYYY - MM - DD T	ro Yyyy - MM - DD	Owner O Any one
Email Source		Message Folder
SELECT	~	
Lexicons		Lexicon: Category
SELECT	~	SELECT
Entity type		Message ID
SELECT	~	
Sort results by		
SELECT	~	
	search $ ightarrow$	O Clear Form

Search Tips can be accessed by selecting the help button ⁽³⁾ in the top right corner of the *Advanced Search* screen.

ePADD also allows a user to search the email archive for entities contained in a given block of provided text, using *Multi-entity Search*. Any matching terms will be highlighted on the results page, and hyperlinked to corresponding messages.

Likewise, ePADD enables a user to search an email archive for multiple terms using *Multi-term Search*. Type or paste one term per line. Any matching terms will be highlighted on the results page, and hyperlinked to corresponding messages.



Finally, ePADD enables a user to search for a list of email addresses using Correspondent List Search. Type or paste one term per line to search for and apply labels to a set of email addresses.

#### 3.3.2.1 Navigating Search Results

Upon submitting a search query, ePADD opens a new browser window displaying the message browse screen.

🔮 GPADD	Import Browse Search Export Save	$\bigcirc$
Correspondents Jeb Bush (9584)	LABELS - SORT BY - ATTACHMENT VIEW	
Kaplan, Mark (917) Finn, Deirdre (679)		
Shanahan, Kat (476)	Date: Jun 30, 2002 3:56pm From: specialpeople81 <specialpeople81@email.msn.com></specialpeople81@email.msn.com>	ହା ₂∑ୁ ାଠ୍ର
evesque, Pat (451)	To: Jeb Bush <ieb@ieb.org></ieb@ieb.org>	
More	Subject:	
General Labels	Dear Governor Bush,	
Other errors (78) Errors in att (1) Possibly Bad (1)	I thought about writing you for a few weeks now, but I thought i would not concern you with my thoughts about th your veto of HB100 (Or what was left of ii), on that matter, can you please share with me the reason or reasons yo it's final analyses was just an all important overseeing vehicle (Pardon the pun), to watch over Lynx and aid in Disa the Orlando area. All of the above would be reason enough to write you, but the story gets better. Last Wednesda	ou vetoed the bill, which in iability Transportation in
Annotations	my tv show. Ironically, the show included my interview with you (At your Press Conference) at the Family Cafe last	t month. My pickup was
Not annotated (9584)	supposed to be at 4:15 pm, the driver did not come until 6:10 pm.	
Attachment type	He then proceeded to stay in the Time warner parking lot for 20 minutes, looking at his map book. Previously, he	
doc (524)	but he did not seem to understand me, due to a language barrier, he could not even understand his managers rec (Going so far as to asking for me to help clarify the situation to them), untill another manager spoke to him in his r	
jpg (226)	driver proceeded to drive, stopping every few miles to look at his map. After awhile of this, his managers finally go	
gif (164)	stom and while they came to pick me up. I got home at around 8:00 pm that evening. Thank heavens, my parents i	insisted that i take a cell
pdf (160)	phone, so we were in constant communication. Sure they were worried, but a lot less then if we'd not have talked.	d.
xls (35)	So let me give you an overview, what you have here is insufficient training (If any), poor scheduling (It did take 2 Ho	Hours to even get me) and
More	no overseeing agency. on a personal note, later that night, a friend of mine (Who is also Disabled) called me to see	e if I got home OK. She was
Folders	very suprised that I was not more vocal about the whole incident. I told her that while I was disapointed about the slightly relieved. When she asked why relieved, I Told her "At Least I was not a Dialysis Patient or a person with Do	-
09Sep.mbox (4043)	what their familiy would be going through, and at least I am able to tell others about such incidents." So again, ple	

The message browse screen displays the full text of email messages as well as a faceted browser which allows the user to further limit the search results. The total number of messages resulting from your search appears above the email message display. The current message appears as a fraction of that display. For instance, if you are appraising message 1 out of 400 results, the display would read 1/400. The forwards and back arrows to the left and right of that number allow you to navigate between search results.

Search results can be limited by correspondent, email direction (incoming or outgoing), lexicon category (if relevant), attachment type (if relevant), annotations or the originating mail folder. To limit the results by a particular facet, simply click the term from the left-hand panel.



All messages have been assigned a unique ID, accessible from this page. Select the ID button to copy the ID to your clipboard:

### ID: c0f436440c2a4ad1061cd08df1d689609e801682a3ec864839288209c1b625d5

If you ever wish to return to a particular message, you can search for a message ID (or semicolon delimited set of message IDs) using the Advanced Search interface in the Miscellaneous search category.

Miscellaneous							
Time Range				Message Direction	ı		
mm/dd/yyyy	То	mm/dd/yyyy				• Either	
Email Source				Message Folder			
SELECT			~				
Lexicons				Lexicon: Category			
SELECT			~	SELECT			~
Entity type				Message ID			
SELECT			~				

#### 3.3.3 Annotating Email Messages

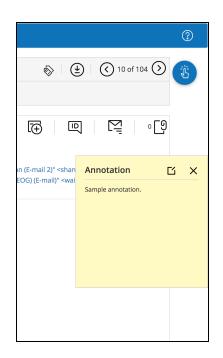
ePADD allows the user to annotate email messages from the message browse screen. These annotations are persistent across ePADD sessions, and can be used to provide supplemental information to assist the archivist in processing the collection, including elaborating on access restrictions or to provide additional information for the benefit of researchers.

To annotate an email message, click the annotation button in the bar above the message headers: . Users can select to apply the annotation to a single message or all messages currently being reviewed. Likewise the user can either append the annotation to current annotations, or overwrite all existing annotations with the new annotation. **Warning: Overwriting annotations cannot be undone!** 



(i) Edit Annotation			×
Sample annotation.			
		<ul> <li>Overwrite</li> </ul>	OAppend
APPLY TO	THIS MESSAGE	APPLY TO ALL	MESSAGES

Once you have added an annotation, a new facet, Annotations, will appear in results on the message browse screen. Additionally, when you navigate to that message or those messages in the future, the annotation will be visible.





### 3.3.4 Labeling Email Messages

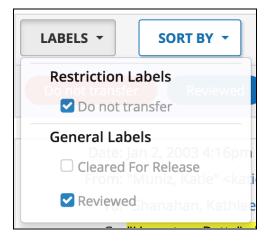
Sepadd	Import Browse Search Export Save		3
Correspondents Jeb Bush (9584) Kaplan, Mark (917)	LABELS - SORT BY - ATTACHMENT VIEW	🗞 🛃 🔇 3 of 9584 🔇	Ü

ePADD allows the user to label email messages that should not be exported for transfer to an archival repository, as well as messages that should be transferred with restrictions.

To label a message, navigate to the message or set of messages, then select a label or set of labels from the Labels dropdown.

There are three default labels within ePADD: Do Not Transfer is a default, not editable restriction label that indicates the message should not be transferred to the next module(s). Cleared for Release is a default, not editable restriction label that indicates the message that was previously labeled with at least one restriction is now cleared for release and should be transferred to the next module(s).

Reviewed is a default, editable label that indicates the message being browsed has been reviewed, and can be used to help track one's progress in reviewing the email archive.



After you have assigned labels, they appear in the message browse screen.





### 3.3.4.1 Assigning bulk labels

To apply a label to more than one message, you can select the label management button above the message pane:

Sepadd	Import Browse Search Export Save	0
Correspondents Jeb Bush (9584) Kaplan, Mark (917) Finn, Deirdre (679)	LABELS •     SORT BY •     ATTACHMENT VIEW       Do not transfer     Reviewed	Ü

CPADD Import Browse Search	Export Save					
Appraisal   Labels for 104 messages	(docset-d4d95138)					
Richard Fikes email	archive				$\left(\begin{array}{c} \bullet\\ \bullet\end{array}\right)$	
			Search:		Show 10 + entries	
Label	¢	Туре 🤟	Messages 🚔	¢	<b>A</b>	
Do not transfer		Restriction	1	Set for all	Unset for all	
Reviewed		General	1	Set for all	Unset for all	
Cleared For Release		General	0	Set for all	Unset for all	
Showing 1 to 3 of 3 entries					Previous Next	t

You can also assign default labels for all messages by using the 'Set labels for all messages' function.

CPADD Browse Search Authorities Export	iave Close							
Processing   Manage lab	els							
Richard Fike	s email archive			Institution: Stanfor Collection ID: SC08			ĵ	
() () () ()				Search:		Sh	ow 10	¢ entries
Label	¢	Туре	•	Messages	÷	Act	ions	¢
Do not transfer		Restriction		0		ß	ŵ	
Reviewed		General		0		ß	做	
Cleared For Release		General		0		ŵ	佃	
No Date		General		0		ß	⁽¹⁾	
Possibly Bad Date		General		0		ß	0	
Errors in attachments		General		0		ŵ	0	
Other errors while parsing		General		0		6	0	
Errors in correspondents		General		0		ŵ	0	
Showing 1 to 8 of 8 entries								Previous Next
Set labels for all messages								



# 3.3.4.2 Creating a new label

😂 GPADD	Import	Browse	Search	Export	Save					0
				,	Appraisal   Dashboard					(j)
					Email Archive of	Jeb Bush			٩	
					8		o'=		\$	
					9,838 Correspondents	<b>8,120</b> Entities		<b>8</b> Labels		
							Ľ			
					<b>1,003</b> Image Attachments	<b>2,126</b> All attachm	ents	<b>4</b> Folders		
					B		E			
					Lexicon Search	Reports		More		

DDD	Import	Browse	Search	Export	Save						?
Appraisa	il   Ma	nage labels									13
	Rich	ard Fikes	s email a	archive						(	
ଢ∣ (	1)  ±							Search:	Sh	ow 10 💠 entries	
Label				¢		Туре	•	Messages	\$ Act	ons 🍦	
Do not t	ransfer				Re	estriction		1	ŵ		
Reviewe	d				0	General		1	۵	団	
Cleared	For Release				(	General		0	ŵ	<b></b>	
Showing 1 t	o 3 of 3 entrie	S								Previous Next	t
Set labels	for all mess	ages									

Users can create new labels, import labels (overwriting all current label assignments) or export all labels via the Labels interface.



Below are several screenshots illustrating how to create a new restriction label.

Label name Label type       RESTRICTION LABEL       Label description			
Label description       Restriction label         UPDATE       General label         uppate       Restriction label         uppate       Impate         uppate       <	Label name	Label type	
Ceneral label         UPDATE->         ew label         Label name         Label type         Restriction type         Restriction type         Image: Strict on type         Image: Strit on type         Image: Str		CHOOSE LABEL TYPE	•
UPDATE →           lew label           Label name           Label description           Restriction type           Image: Contract of the second secon		Restriction label	
ew label Label name Label type Restriction type Mestriction type Minimum 2018 UNTIL DATE UDDATE 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Label description	General label	
ew label Label name Label type Restriction type Mestriction type Minimum 2018 UNTIL DATE UDDATE 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
ew label Label name Label type Restriction type Mestriction type Minimum 2018 UNTIL DATE UDDATE 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
ew label Label name Label type Restriction type Mestriction type Minimum 2018 UNTIL DATE UDDATE 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 2 3 4 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Label name Label type          Restriction type       Restricted until (yyyy-mm-dd)         UNTIL DATE       I         UDDATE       I         1       2       3       4       5       6         1       1       2       3       4       5       6		UPDATE →	
Restriction type <ul> <li>Restriction type</li> <li>Interview of the second s</li></ul>			
Label name Label type          Restriction type       Restricted until (yyyy-mm-dd)         UNTIL DATE       I         Image: Sum Mo Tu We Th Fr Sa         UPDATT       I         Image: Sum Mo Tu We Th Fr Sa         Image: Sum Mo Tu			
Restriction type <ul> <li>Restricted until (yyyy-mm-dd)</li> <li>I</li> <li>January 2018</li> <li>Su Mo Tu Wo Th Fr Sa</li> <li>Su Mo Tu Wo Th Fr Sa</li> <li>I</li> <li>I</li></ul>	ew label		
Label description  Restriction type  UNTIL DATE  UUNTIL DATE  UUPDATI  1 2 3 4 5 6 7 8 9 10 11 12 13	ew label		
Restriction type		Label type	
Restriction type			•
UNTIL DATE -   UPDAT UPDAT UPDAT			•
UNTIL DATE -   UPDAT UPDAT UPDAT	Label name		*
UNTIL DATE -   UPDAT UPDAT UPDAT	Label name		•
UPDATI       1       2       3       4       5       6         7       8       9       10       11       12       13	Label name		•
Su         Mo         Tu         We         Th         Fr         Sa           UPDATI         1         2         3         4         5         6           7         8         9         10         11         12         13	Label name Label description Restriction type	RESTRICTION LABEL	•
UPDATI         1         2         3         4         5         6           7         8         9         10         11         12         13	Label name Label description Restriction type	mestricted until (yyyy-mm-dd)	•
7 8 9 10 11 12 13	Label name Label description Restriction type		•
	Label name Label description Restriction type	RESTRICTION LABEL      Restricted until (yyyy-mm-dd)     January 2018   Su Mo Tu We Th Fr Sa	•
	Label name Label description Restriction type		•

Messages that are restricted until a particular date, or restricted for a given time period from the date of message creation, are considered machine-actionable, as ePADD is able to recognize when the restriction period has expired via an advanced search function.



abels	
SELECT A LABEL	$\sim$
Restriction Labels	
Do not transfer	
Restricted for 10 years	
General Labels	
Cleared For Release	
Expired restrictions (except 'Cleared for release')	
□ All restrictions expired	

Messages marked with restriction labels will not automatically export to Discovery and Delivery. In order to export these messages, the user needs to manually assign them the label 'Cleared for Release.' Note that ePADD does not delete any messages that have restriction labels applied to them, they are simply not exported to subsequent modules.

Because ePADD enables users to assign multiple restriction labels to a given message or set of messages, you may find it helpful to review the set of messages that contains more than one restriction. You can perform this search query under Advanced Search.

Actions	
Annotation	Labels
Any annotation	SELECT A LABEL

Viewing all messages with more than one restriction via advanced search.



**Warning:** Since importing labels overwrites all current label assignments, this task should only be undertaken prior to accessioning / processing a collection.

**Known issue:** The introduction of message error labels in v7 has complicated the label upload mechanism. For the time being, please refrain from using the Upload Label Description feature on the Manage Labels screen. You can manually add or delete labels as needed as a workaround.

#### 3.3.4.3 Assigning bulk labels by correspondent

ePADD also gives the user the ability to assign labels to all messages from a list of correspondents, using the *Correspondents List Search* option.

#### 3.3.5 Assigning Images to the Collection

ePADD allows the user to assign up to three images to any given collection to improve the end-user experience: a profile image in Appraisal, and profile, landing page, and banner images in Processing. Images must be resized to the dimensions indicated to display correctly.

Images are set in the location they appear. You can set the profile image from the browse page using the edit option within the greyed out profile image.

Appraisal   Dashboard			
Richard Fik	es email archive	િ	)
() Uplo	oad a profile photo (1:1 aspect ratio)	×	
File	Choose File No file chosen		

Within Processing, you can add the landing image from the Collection Browse page, and the banner image from the Collection Details page, using a similar interface.



# 3.4 Exporting Email for Preservation

ePADD can be used to create and export a preservation package or 'preservation ready bag', complete with all email headers, that can be transferred to a digital preservation repository. To create the preservation package click 'Export' on the ePADD dashboard:

In 'Export to Preservation', select 'exportAppraised' and click 'Export':

Appraisal   Export Archive	
Email Archives of Joe Smith	٢
Export to Preservation           SELECT         EXPORT           exportAppraised         EXPORT	
Export to next ePADD module Specify Location BROWSE EXPORT	

When MBOX files are imported into the Appraisal module, ePADD creates what we refer to as a Canonical-Acquisitioned file. 'Canonical' is the single file format designated by ePADD as a common standard based format for transfer and long-term preservation purposes. The designated ePADD 'Canonical' format is MBOX. 'Acquisitioned', in this context, refers to the unmodified form of email as originally received by ePADD and not yet subject to any appraisal or processing. The folder:



On Windows: C:\Users\<username>\epadd-appraisal\user\data\exportableAssets On Mac: User/<username>/epadd-appraisal/user/data/exportableAssets

contains the folders:

- AppraisalCanonicalAcquisitioned
- AppraisalNormalizedAcquisitioned

Clicking on 'Export' creates a folder – 'AppraisalNormalizedAppraised' – containing the appraised MBOX file(s), which is found via the following file path:

On Windows: C:\Users\<username>\epadd-appraisal\user\data\exportableAssets\ AppraisalNormalizedAppraised

On Mac: User/<username>/epadd-appraisal/user/data/exportableAssets/ AppraisalNormalizedAppraised

Name	Date modified	Туре	Size
AppraisalCanonicalAcquisitioned	11/07/2022 14:44	File folder	
AppraisalNormalizedAcquisitioned	11/07/2022 14:44	File folder	
AppraisalNormalizedAppraised	13/07/2022 11:26	File folder	

The folder 'AppraisalNormalizedAppraised' contains appraised emails in their respective MBOX files and will include any attached labels or annotations.

## 3.5 Exporting Message Attachments

Select **Export** from the Appraisal Module menu at the top of the screen to navigate to the Export Screen.





Export Attachments	
Unrecognized by Apache Tika only	
Туре	Other Extensions
SELECT ~	
Specify Location	
	BROWSE EXPORT

You can choose to export attachments according to various criteria, including particular formats. The user can also indicate whether they would like to export only those attachments which have not been recognized by Apache Tika (and are therefore not indexed with ePADD), for further review. Note that messages are only flagged in this way if they have also been appraised or processed by ePADD 4.0 or later.

### **3.6 Exporting Messages to MBOX**

Select **Export** from the Appraisal Module menu at the top of the screen to navigate to the Export Screen.

😂 GPADD	Import	Browse	Search	Export	Save
Export Messages in MBOX Format					
SELECT			EXPORT		

The user can select to export all messages, all non-restricted messages, or just restricted messages. Please note that email exported to MBOX would need to be re-imported into ePADD (and reindexed) in order to benefit from ePADD's functionality in the future.



# **3.7 Exporting Email to the Processing Module**

Once you have reviewed the email archive using the tools described above, the final step is to export the appraised email archive (along with whatever supplemental information or annotations you have added) so it can be transferred to an archival repository, and/or processed in another ePADD module.

Select Export from the Appraisal Module menu at the top of the screen to navigate to the Export Screen.

😂 GPADD	Import	Browse	Search	Export	Save
Export to next ePADD module Specify Location			BROWSE	EXPORT	

To export the archive to the Processing Module, first select Browse under *Export to Next ePADD Module.* 

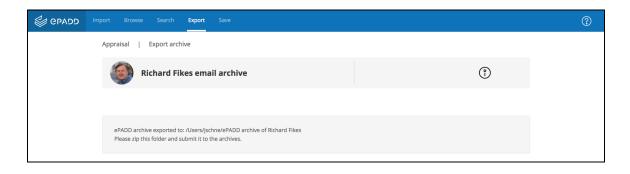


(*) Specify a Location		×
•/		
<ul> <li>afs</li> <li>Applications</li> <li>bin</li> <li>cores</li> <li>dev</li> <li>etc</li> <li>home</li> <li>Library</li> <li>net</li> <li>Network</li> <li>opt</li> <li>private</li> <li>sbin</li> <li>System</li> <li>tmp</li> <li>Users</li> <li>usr</li> </ul>		
	CANCEL	N

Selecting a folder location to export the appraised email archive

Select the location for ePADD to export the email archive. Please ensure you have enough disk space to save the complete email archive export or the export will fail.

This step may take some time as ePADD assembles the exported email archive and accompanying documentation.





	ePADD archive of F		** 0.0.0	
			Q Sea	rcn
Favorites		100 H 100		
💱 Dropbox			Eddaray are	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
Desktop				-
Applications				
Recents				
Documents				
MirDrop		bag-info.txt		
Coud Drive	Name	^	Date Modified	Size
O Downloads	bag-info.txt		Yesterday at 12:00 PM	52
😭 jschne	bagit.txt		Yesterday at 12:00 PM	54
	🕨 🚞 data		Yesterday at 12:00 PM	
Devices	manifest-md5.txt		Yesterday at 12:00 PM	1
Remote Disc	tagmanifest-md5.txt		Yesterday at 12:00 PM	142
📄 epadd 🔺				
Shared				

#### An exported email archive

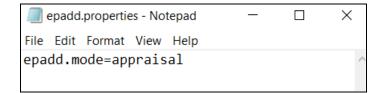
**Note to Donor**: Once you have confirmed with the archival repository that the transfer is successful, you may wish to delete the ePADD working directories from your workstation. You can do so manually by deleting the following folders under your user directory: 'epadd-appraisal' and 'epadd-settings.'

During the ePADD installation process, a file named *epadd.properties* is created. The file is located in the user's home directory, e.g.

On Windows: c:\users\<username>\ On Mac: /Users/<username>/

By default, this file contains the following text:

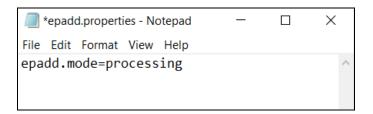
epadd.mode=appraisal





'appraisal' indicates which module or mode ePADD is in; if, for example, you were to restart ePADD it will open in the Apprasial module. To run a different ePADD module, replace 'appraisal' with 'processing', 'discovery' or 'delivery', as in these examples:

- epadd.mode=processing
- epadd.mode=discovery
- epadd.mode=delivery



If it is already running, you must restart ePADD. If no module is specified in the properties files, ePADD will start in its default mode, which is the Appraisal module.

Note that when changing the mode to 'discovery', you also need to start ePADD using the file epadd-discovery-standalone.jar as described elsewhere in this guide (please see section 5.2 <u>Mounting the Discovery Module under a Web Server</u>). Although ePADD will start in discovery mode using epadd.exe or epadd-standalone.jar, it will not completely work as intended.

# 4 Processing Module



Email archives must initially be ingested to ePADD from the Appraisal module. To work with a collection within the Processing module, it is best practice to first close ePADD, and change the default module using the epadd.properties file (see section <u>2.2</u>: <u>Installing ePADD</u> in this guide for more details on configuring ePADD). After confirming successful import of files into Processing, you can optionally delete files in Appraisal by deleting the 'epadd-appraisal' folder in your user directory.

If you are planning to run multiple modules on a single workstation, you may also navigate between modules by manually navigating to localhost:9099/epadd/switch-module using



the web browser address bar. Again, please note that it is always best practice to close the archive using the 'Close' header menu option, and to fully quit ePADD, before beginning work in another module.

Please note that if you wish to export an unprocessed MBOX file for preservation, this should be your first step upon starting up the Processing Module. Select Export from the navigation bar, then use the Export messages in MBOX format option.

# 4.1 Importing an Email Archive from the Appraisal Module into the Processing Module and Assigning Accession Metadata

Please note that it is always best practice to fully quit ePADD before beginning work in another module. To work with a collection within the Processing module, it is recommended to first close ePADD, and change the default module using the epadd.properties file (see section <u>2.2: Installing ePADD</u> of this guide for more details on configuring ePADD).

ePADD uses the concept of accessions and collections. All email exported from Appraisal is considered an accession. To create a new collection within ePADD Processing, select 'Add' from the navigation bar, then use the 'Browse' button to navigate to the folder exported from the Appraisal Module. Assign accession metadata, then import the email archive identified by clicking the 'Import Accession' button.

Users can continue to review and create collection metadata in the Processing Module. Please refer to section 3.3.1 for more information on this process.



GPADD	Collections Add
	Starting a new collection
	C Accession folder*
	/Users/jschne/ePADD archive of Richard Fikes/
	Accession ID*
	ARCH 2017-193
	Accession Title
	Richard Fikes papers
	Accession Date
	2007
	Scope and Content
	Includes email.
	Rights and Conditions
	All requests to reproduce, publish, quote from, or otherwise use collection materials must be submitted in writing to the Head of Special Collections and University Archives, Stanford University Libraries, Stanford, California 94305-6064. Consent is given on behalf of Special Collections as the owner of the physical items and is not intended to include or imply permission from the copyright owner. Such permission must be obtained from the copyright owner, heir(s) or assigns. See: http://library.stanford.edu/spc/using-collections/permission-publish.
	Notes
	Transferred from office, 2017.
	IMPORT ACCESSION →

Once you have added an accession to a new collection, you have the ability to add collection metadata.

Add an additional accession to an existing collection by selecting the Add Accession button, from the Collection page, below Collection Details. You can also edit accession metadata at any time from the Collection page.



# 4.2 Assigning Collection Metadata

After the accession has been imported, you will be brought to the Browse screen. Close the archive using the close button in the navigation bar to return to the Collections page.

🔮 GPADD	Collections	Add		0	
		Web	come to the ePADD processing mod	dule.	
			ß		
			(No title)		
			(No description)		

There you will find your accession. Optionally, you can select the edit button 🖆 to add a landing page image. This image can also be set or changed later.

্ট	Upload a landing page image (4:3 aspect ratio)	×
File	Choose File No file chosen	
	UPL	OAD→

To edit the collection details, click on the image/title.



Processing   About this co	ollection
	(C)
Summary 🕲	null ENTER →
Institution Unassigned	
Repository <b>Unassigned</b>	(About this archive - unassigned)
Collection ID Unassigned	Accession ID: ARCH 2017-193
1 accession	Title: Richard Fikes papers
Date Range <b>1970-01-15 to 2003-03-29</b> Messages: <b>1,836</b> Incoming: <b>1,296</b> Outgoing: <b>542</b>	Date: 2007
Attachments: <b>277</b> Images: <b>46</b> Documents: <b>203</b> Others: <b>28</b>	Scope and contents Includes email.
	Rights and conditions         All requests to reproduce, publish, quote from, or otherwise use collection materials must be submitted in writing to the Head of Special Collections and University Archives, Stanford University Libraries, Stanford, California 94305-6064. Consent is given on behalf of Special Collections as the owner of the physical items and is not intended to include or imply permission from the copyright owner. Such permission must be obtained from the copyright owner, heir(s) or assigns. See: http://library.stanford.edu/spc/using-collections/permission-publish.         Notes       Transferred from office, 2017.
	Add accession
	ENTER $ ightarrow$

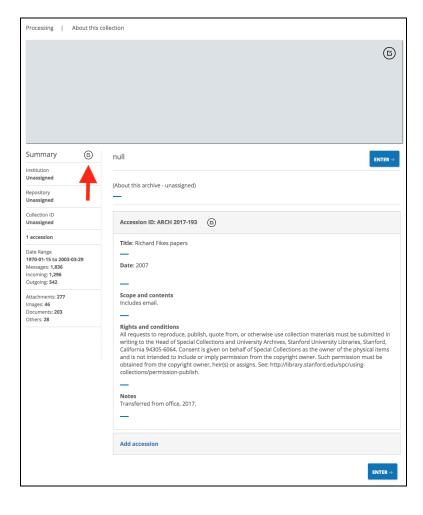
When we are done, this page will match what users will experience in the Discovery and Delivery modules.



Currently, it is lacking a banner image and any collection metadata! Optionally, select the edit button (a) to add a banner image. This image can also be set or changed later.

(ု) Upload	a banner image (11:3 aspect ratio)	×
File	Choose File No file chosen	
		$\textbf{UPLOAD} \rightarrow$

To add collection metadata, select the edit button next to the Summary 😰 .

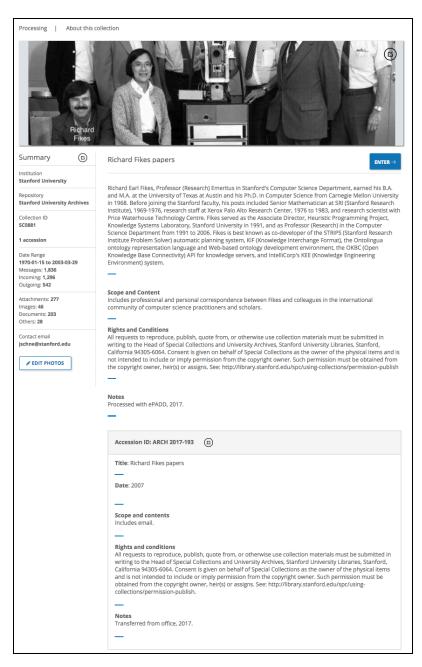




Collection: ePADD archive of Richard Fikes			
Institution			
Stanford University			
Repository			
Stanford University Archives			
Collection Title	Rights and Conditions		
Richard Fikes papers	All requests to reproduce, publish, quote from, or otherwise use collection materials must be submitted in writing to the Head of Special Collections and University Archives, Stanford University Libraries, Stanford, California 94305-		
Short Title			
Richard Fikes	6064. Consent is given on behalf of Special Collections as the owner of the physical items		
Collection ID	and is not intended to include or imply permission from the copyright owner. Such		
SC0881	nermission must be obtained from the		
Finding Aid Link	Notes		
http://www.oac.cdlib.org/findaid/ark:/13030/kt7t	Processed with ePADD, 2017.		
Catalog Record Link			
https://searchworks.stanford.edu/view/7734650			
Contact Email Address			
jschne@stanford.edu			
	Scope and Content		
Short Description	Includes professional and personal		
Richard Earl Fikes is Professor (Research) Emeritu	correspondence between Fikes and colleagues in the international community of computer		
About	science practitioners and scholars.		
About Richard Earl Fikes, Professor (Research) Emeritus in Stanford's Computer Science Department, earned his B.A. and M.A. at the University of Texas at Austin and his Ph.D. in Computer Science from Carnegie Mellon University in 1968. Before joining the Stanford faculty, his posts included Senior Mathematician at SRI (Stanford Research Institute), 1969-1976, research staff at Xerox Palo Alto Research Center, 1976 to 1983, and research scientist	SAVE →		



### When you have finished adding information, click Save.



Note that if files have been normalized via an Archivematica integration, the number of renamed and normalized files will appear under Collection Details.



## 4.3 Appraisal Revisited

The **Processing Module** includes all of the review and appraisal functionality of the **Appraisal Module**, as well as additional functionality associated with archival processing. Please refer to **Section 3: Appraisal Module** for information on Reviewing Email (Browsing Email Messages; Editing Correspondents; Performing Entity Analysis, Performing Lexicon Analysis; and Reviewing Attachments) as well as Appraising Email (Searching Email Messages; Annotating Email Messages; and Restricting Email Messages).

There is no set order to perform the steps above. In fact, different email archives will benefit from different approaches. However, we do recommend that you begin by verifying the bag checksum. This option can be accessed under the More from the Browse menu.

The various unique functionalities provided by the Processing Module to assist with archival processing are described below.

# 4.4 Setting Default Labels

If you wish to reset any labels that were added in Appraisal, or set new default labels, navigate to Labels from the Browse screen and select Set labels for all messages.

GPADD Browse Search	Authorities Export Save Close			
P	Processing   Manage labels			
	Richard Fikes email archive		Institution: Stanford University Collection ID: SC0881	(î)
	(±)   (±)   (±)		Search:	Show 10 + entries
	Label \$	Туре	🗸 Messages 🔶	Actions 🗄
	Do not transfer	Restriction	0	۵ tt
	Reviewed	General	0	@ #
	Cleared For Release	General	0	6 6
	No Date	General	0	6 6
	Possibly Bad Date	General	0	ê #
	Errors in attachments	General	0	G ti
	Other errors while parsing	General	0	10
	Errors in correspondents	General	0	â #
s	howing 1 to 8 of 8 entries			Previous Next
s	iet labels for all messages			



The Processing Module contains an additional restriction label not present in the Appraisal Module - 'Transfer to Delivery Only.' When a processed email collection is exported from from the Processing Module to the Discovery and Delivery Modules, messages with this label applied will only export to the Delivery Module and not to the Discovery Module.

### 4.5 Performing Authority Control

ePADD allows the user to reconcile correspondents and named entities extracted by ePADD with authorized headings (including OCLC FAST headings).

Within the Processing Module, select **Authorities** from the navigation bar to begin this process.

### 4.5.1 Reconciling Correspondents with Authorized Headings

For more information about how ePADD merges correspondents, as well as how to manually override merged correspondents, please see section <u>3.2.3: Editing Correspondents</u> for further information.

The order of correspondents on the Authorities screen can be relisted alphabetically by person, or by volume of messages exchanged. You can also select how many correspondent entries to view per page using the option box in the top left corner, as well as search for a particular correspondent using the search box at the top of the page.

Browse Search	Authorities Export Save Close	
	Processing   Assign Authorities	
	Richard Fikes email archi	Ve Institution: Stanford University Collection ID: SC0801
		Show unconfirmed rows with candidates
		Search: Show 10 a entries
	Name de Mess	ages y Authorities 0
		Stutler, Denver Joe (1964-) V FAST V LENAF
	Stutler, Denver	123 No authority record
		+ Assign an authority
		Moore, Tim FAST CLAF
		Moore, Tim (1887-1958)  V FAST V VIAF V Wildpedia: Tim, Moore, (comedian) V LCNAF
		Moore, Tim (1944-)



ePADD searches OCLC FAST for LC Subject Headings, as well as DBPedia, VIAF, and LCNAF. If an image is associated with the related DBPedia record, it can be displayed by hovering over the related DBPedia link.

If you are unsatisfied with ePADD's results, you can add an authorized heading ID or local ID using the **+** button.

FAST Id		
e.g., 61561		
VIAF Id		
e.g., 66552944		
Wikipedia Id		
e.g., Thomas_Edison		
LoC Named Authority File Id		
e.g., n80126308		
LoC Subject Headings Id		
e.g., sh95009459		
Local Id		
	CANCEL	SAVE

Any actions taken in the Authorities interface are autosaved. Authorized correspondents can be exported as a .CSV file by selecting **Export** from the navigation bar, then using the *Export Correspondents* option. See section <u>4.11: Exporting Correspondents</u> for more information.

### 4.6 Exporting Email for Preservation

ePADD can be used to create and export a preservation package or 'preservation ready bag', complete with all email headers, that can be transferred to a digital preservation repository. This can be done, following similar steps, from within ePADD's Appraisal and Processing modules (see section <u>3.4</u>: Exporting Email for Preservation for exporting email from the Appraisal module). To create the preservation package click 'Export' on the ePADD dashboard:



In 'Export to Preservation', select 'exportProcessed' and click 'Export':

Sepadd	Browse Search Authorities Export Save Close		3
	Processing   Export Archive		(ii)
	Jeb Bush email Archive	Institution:Unassigned Collection ID:Unassigned	(?)
	Export to Preservation		
	SELECT	✓ EXPORT	

Clicking on 'Export' creates a folder – 'ProcessingNormalizedAppraised' – containing the appraised MBOX file(s), which is found via the following file path:

On Windows: C:\Users\<username>\epadd-appraisal\user\data\exportableAssets\ ProcessingNormalizedProcessed

On Mac: User/<username>/epadd-appraisal/user/data/exportableAssets/ ProcesingNormalizedProcessed

Name	Date modified	Туре
ProcessingNormalizedProcessed	06/10/2022 12:15	File folder

# 4.7 Exporting Message Headers

Message headers can be exported from Processing as a .CSV file to aid in social network analysis using the *Export Headers (CSV)* option. Exported fields include Date, From (resolved name), from (email address), To (resolved name), To (email address), CC (resolved name), CC (email address), BCC (resolved name), BCC (email address).



Select **Export** from the Processing Module menu at the top of the screen to navigate to the Export Screen, where you will find the section entitled 'Export Headers (CSV):

Export headers (CSV)			
Specify location			
	BROWSE	EXPORT	

#### 4.8 Exporting Message Attachments

Users can also choose to export attachments according to various search criteria. The user can indicate whether they would like to export only those attachments which have not been recognized by Apache Tika (and are therefore not indexed with ePADD) for further review. Note that messages are only flagged in this way if they have also been appraised or processed by ePADD 4.0 or later.

Select **Export** from the Processing Module menu at the top of the screen to navigate to the Export Screen, where you will find a section entitled 'Export Attachments':

Unrecognized by Apache Tika only					
Туре		Other Extensions			
SELECT	~				
Specify Location					
			BROWSE	EXPORT	

### 4.9 Exporting to MBOX

Users can export messages to MBOX -- the user can select to export all messages, all non-restricted messages, or just restricted messages. Please note that email exporting to MBOX will need to be re-imported into ePADD (and reindexed) in order to benefit from ePADD's functionality in the future.



Select **Export** from the Processing Module menu at the top of the screen to navigate to the Export Screen, where you will find a section entitled 'Export Messages in MBOX Format':

Export Messages in MBOX Format			
SELECT	~	EXPORT	

## 4.10 Exporting Entities

Users can export recognized entities. The user can select whether they would like to export all entities or just particular entity types. Entities are exported as CSV and include the following fields: Entity name, number of related messages, start and end dates for related messages, entity type, and score (whether there is a direct match with an entity in DBPedia).

Select **Export** from the Processing Module menu at the top of the screen to navigate to the Export Screen, where you will find a section entitled 'Export Entities':

I	Export entities		
	SELECT	~	EXPORT

## 4.11 Exporting Correspondents

Users can export correspondents from the email archive. Users can choose to export only correspondents that have been confirmed via the Authorities interface (which include related unique identifiers), or only unconfirmed correspondents. Unconfirmed correspondents are exported as CSV and include the following fields: Correspondent name, number of sent and received messages, number of mentions, and start and end dates for related messages.

Select **Export** from the Processing Module menu at the top of the screen to navigate to the Export Screen, where you will find a section entitled 'Export correspondents':

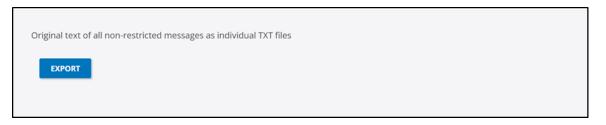


Export correspondents			
SELECT	~	EXPORT	

# 4.12 Exporting Original Text of Non-restricted Messages as Individual Text Files

Users can export all message text (subject line and message body) as individual TXT files to support topic modeling and other methods of text analysis.

Select **Export** from the Processing Module menu at the top of the screen to navigate to the Export Screen, where you will find the relevant section:



## 4.13 Exporting Email to the Delivery and Discovery Modules

Once you have reviewed the email archive using the tools described above, the final step is to export the processed email archive (along with whatever supplemental information or annotations you have added) for display in the Discovery and/or Delivery Modules.

Select **Export** from the Processing Module menu at the top of the screen to navigate to the Export Screen.

Specify location BROWSE EXPORT	Export to next ePADD module		
BROWSE EXPORT	Specify location		
		BROWSE	EXPORT



To export the archive to the Discovery and Delivery modules, first use the Browse button to select the location you wish to export under *Export to next ePADD module,* then click the confirm button.

(†) Specify a Location	×
<ul> <li>afs</li> <li>Applications</li> <li>bin</li> <li>cores</li> <li>dev</li> <li>etc</li> <li>home</li> <li>Library</li> <li>net</li> <li>Library</li> <li>net</li> <li>Network</li> <li>opt</li> <li>private</li> <li>sbin</li> <li>System</li> <li>System</li> <li>tmp</li> <li>User Information</li> <li>Users</li> </ul>	
	CANCEL

Selecting a folder in which to export the email archive

Please ensure you have enough disk space to save the complete email archive export or the export will fail.

This step may take some time as ePADD assembles the exported email archive and accompanying documentation.



	ePADD archive of Richard	d Fikes-Discovery		1
$\langle \rangle$			¥~	Q Search
Favorites				
State Dropbox			and some or a	
Desktop				
Applications				Antonio de Carlos de Carlo
Recents				
🖻 Documents				
MirDrop		bag-info.txt		
iCloud Drive	Name	^	Date Modified	Size
O Downloads	bag-info.txt		Today at 3:29 PM	50
😭 jschne	📄 bagit.txt		Today at 3:29 PM	54
Devices	🕨 🚞 data		Today at 3:29 PM	
	manifest-md5.txt		Today at 3:29 PM	
Remote Disc	tagmanifest-md5.txt		Today at 3:29 PM	142
epadd				
Shared				

	ePADD archive of Richard Fikes-Delive	/ery	😂 🗸 🔍 Q Search	
Favorites				
💱 Dropbox				
Desktop				
Applications	Construction of the second sec			
Recents				
🖺 Documents	The second secon			
MirDrop	tagmanife	est-md	5.txt	
iCloud Drive	Name	^	Date Modified	Size
Downloads	bag-info.txt		Today at 3:29 PM	52
😭 jschne	bagit.txt		Today at 3:29 PM	54
	🕨 📄 data		Today at 3:29 PM	
Devices	manifest-md5.txt		Today at 3:29 PM	
Remote Disc	tagmanifest-md5.txt		Today at 3:29 PM	142
epadd				
Shared				

Exporting the processed email archive from the Processing Module creates two folders: one to support Discovery, and one to support Delivery



# 5 Discovery Module

The Discovery Module is designed to run under a web-server, and allow remote users to search redacted header info and extracted entities while limiting full-text access to the materials.

## 5.1 Testing the Discovery Module

To test the Discovery module on your local workstation, copy the folder 'Email archive of <name>-Discovery,' exported through the Processing Module to the 'epadd-discovery' folder in your user directory. (Please see section <u>2: Getting Started</u> for more information about locating your user directory). If an 'epadd-discovery' folder does not already exist within your user directory, create that folder.

Now run ePADD and navigate to the Discovery module within the settings folder. At this point, you may wish to reset the 'reviewed' status for all messages that may have been marked as 'reviewed' in the Processing Module. To do this, navigate to the Settings Menu, and select the 'Set Default Actions' button.

## 5.2 Mounting the Discovery Module under a Web Server

Please follow the steps below to mount the ePADD Discovery Module under a web server. As the software is still in development, please contact us **(<u>epadd_project@stanford.edu</u>)** to troubleshoot any issues and/or confirm your successful installation.

1) Install the **Java runtime environment** (JRE 8+) on the machine that is going to mount the web server.

2) Create a file called epadd.properties. It must be in plain text and stored in the user's home directory (typically c:\users\<username>\).

This file should contain the following text:

### epadd.mode=discovery

3) Copy the exported Discovery version of the archive folders (which should be titled *ePADD archive of <name>-Discovery*) into ~/epadd-discovery of the home directory for the account that will be running the ePADD discovery module / web server.



Upon copying the files you should see the following directories, including subdirectories and files:

\$ ls ~/epadd-discovery

ePADD archive of <name>-Discovery

# Important: Please ensure that you do not copy the Delivery version of the archive. It MUST be the Discovery version, as the Delivery version has unredacted information!

4) Download and install the Discovery Module distribution file (**epadd-discovery-standalone.jar**). The web server is bundled with this distribution.

### 5) Start ePADD with:

java -Djava.io.tmpdir=/tmp -Depadd.mode.discovery=1 -Dnobrowseropen= -Xmx4g -jar epadd-discovery-standalone.jar

Please adjust the -Xmx option to assign as much memory you want, depending on the size of the archive(s).

Please also note that the java.io.tmpdir should be set to a directory where temporary files can be stored by ePADD. (java.io.tmpdir=/tmp will not work on Windows systems).

Please also ensure that the 9099 port is accessible from outside and will remain open.

# Caution: Please ensure that this directory is not periodically cleared by utilities like tmpwatch.

6) You can now open ePADD application in your internet browser by typing the URL <a href="http://fmachine-name">http://fmachine-name</a>}:9099/

Where {machine-name} is the publicly visible name/IP of the machine where the epadd-discovery module is running.

7) You may wish to reset the 'reviewed' status for all messages that may have been marked as 'reviewed' in the Processing Module. To do this, navigate to the Settings Menu, and select the 'Set Default Actions' button.



Note: Please contact the ePADD development team (<u>epadd_project@stanford.edu</u>) for help troubleshooting installation of the Discovery Module.

# 5.3 Searching Entities Across Collections

ePADD supports cross-collection entity search. Navigate to Search from the Discovery navigation bar to access cross-collection entity search.

Biscovery	Collections Search	0
	Cross-collection entity search	
	stanfor	
	stanford univ	
	stanford presses	
	stanford english	
	stanford lipsey	
	g. stanford bratton	
CPADD Discovery	Collections Search	Ø
	Search term: stanford university press Institution: Stanford University Libraries Repository: Manuscripts Collection: Robert Creeley papers	
	Entity Messages Correspondent Date Range	
	Stanford University Press 24 Jun 12, 2003 - Nov 22, 2004	
	Institution: Stanford University Libraries Repository: Manuscript Collection: Harrison (Helen and Newton) papers	
	Entity Messages Correspondent Date Range	
	Stanford University Press 3 Oct 02, 2010 - Feb 15, 2011	

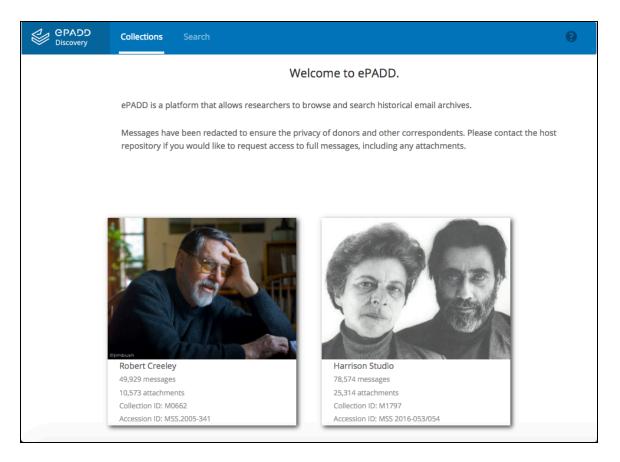


Cross-collection entity search supports autocomplete. The user can navigate from search results to the related collection.

### 5.4 Navigating to a Collection

The Collections menu provides a user with access to the redacted email of any processed collections.

The user selects the collection they wish to access by clicking on the related image.



#### **Selecting a Collection**

The next screen provides basic details of the collection. A user can proceed with viewing the collection by selecting the 'Enter' button.



#### Robert Creeley papers



#### Collection Details

Institution Stanford University

Repository Special Collections & University Archives

Collection ID M0662

Accession ID ACCN 2005-182

Date Range 1995-03-05 to 2005-03-23 8 messages undated

Messages: 1,680 Incoming: 868 Outgoing: 15

Attachments: 245 Images: 34 Documents: 84 Others: 127

Contact email specialcollections@stanford.edu

#### About Robert Creeley

The Robert Creeley Papers document the life work of a leading American poet of the 20th century, one of the core members of the "Black Mountain School." They also document several important movements in American poetics in the second half of the century. The papers include Creeley's personal and professional correspondence, journals, business records, personal mementos, clippings, artwork, and other documents generated and collected by him from 1950 to 1997.

#### **Rights and Conditions**

Property rights reside with the repository. Literary rights reside with the creators of the documents or their heirs. To obtain permission to publish or reproduce, please contact the Public Services Librarian of the Dept. of Special Collections.

#### Notes

Additional Creeley materials can be found in M0553 and M0347.

#### $\mathsf{ENTER} \, \! \rightarrow \,$

Finding Aid

#### Catalog Record

Email messages in the ePADD Discovery Module have been redacted to ensure the privacy of donors and other correspondents. Please contact the host repository if you would like to request access to full messages, including any attachments.

#### Access a Collection by clicking the 'ENTER' button.



# 5.5 Browsing Email

The Browse Menu provides a user with access to several options to browse a redacted email archive, including by Correspondent as well as by extracted entity type (persons, organizations, and locations).

CPADD Discovery	Browse	Search	Close	0
Discovery		Harriso	Correspondents (15170)	
			Other entities (300759)	

Browse Menu in the Discovery Module



# 5.6 Searching Email

Harrison Studio papers, Email Series	
Search	
Simple search Query Generator	
search query	
SEARCH→	
Need more search options? Try Advanced Search.	

To search the email archive, navigate to the Search screen.

Beginning with v2.0, ePADD supports three types of search: simple search, advanced search, and the query generator.

To use the simple search feature, simply type in your query into the simple search box available on the initial search screen. This will search across message headers (correspondents and subjects) and message text, as well as the text of all document attachments.

Once you have entered your term(s) and made your selection, click the *Search* button. The search string will appear highlighted on the message browse screen.



Advanced Search enables the user to to generate complex searches of email text, correspondents, attachments, and any actions previously taken on the messages, as well as a variety of other parameters.

	Advan	ced Search
Text Terms		
Search body Search subje Entity	ct Search attachments	2Search original text
Correspondents		
Name or email		
☑To ☑From ☑Cc ☑Bcc		
Mailing List		
○Yes ○No ⊙Either		
Attachments		
File Name		File Size
		CHOOSE FILE SIZE
Reg Ex		
Туре		Other extension
SELECT	~	
SELECT	~	
Actions		
		Reviewed
Actions		
Actions		Reviewed
Actions Annotation		Reviewed Ves No @Either

Time Range				Message Direction	n		
mm/dd/yyyy	To	nm/dd/yyyy		O Incoming	Outgoing	<ul> <li>Either</li> </ul>	
Email Source				Message Folder			
SELECT							
Lexicons				Lexicon: Category			
SELECT				SELECT			
Entity type							
SELECT							
Sort results by							
SELECT							
				-			
			SEARCH →	O Clear Form			



Search Tips can be accessed by selecting the ⁽⁶⁾ button in the top right corner of the *Advanced Search* screen.

ePADD also allows a user to search the email archive for entities contained in a given block of provided text, using the *Query Generator*. Any matching terms will be highlighted on the results page.

Brand Contract Contra	Collections Browse Search	0						
Robert Creeley papers - Email series								
	Simple search Query Generator							
	The Project Gutenberg EBook of Moby Dick; or The Whale, by Herma	n Melville						
	ETYMOLOGY.							
	(Supplied by a Late Consumptive Usher to a Grammar School)							
	The pale Usherthreadbare in coat, heart, body, and brain; I see him							
	now. He was ever dusting his old lexicons and grammars, with a quee handkerchief, mockingly embellished with all the gay flags of all	r						
	the known nations of the world. He loved to dust his old grammars; it							
SEARCH →								
Need more search options? Try Advanced Search.								

Search options within the Discovery Module



Date:January 26, 2001 3:39pm
From:snhowe@
To:creeley@
Subject:
<u>Neil</u>
<u>Neil</u>
Charles
····· ··· ··· ··· ··· ··· ··· ··· ···· ····
<u>Neil</u>
Myung Mi
<u>Kim</u>
Dennis
<u>Charles</u>
(
)
Charles (
?
Susan

#### Discovery Module search results, displaying only redacted headers and extracted entities



Query generator in action



# 6 Delivery Module



**Delivery Module Navigation Bar** 

The Delivery Module enables archival repositories to provide moderated full-text access to unrestricted email archives within a reading room.

## 6.1 Importing the Email Archive into the Delivery Module

In order for ePADD to recognize the email archive, you must first ensure it is in the proper location within your user directory. (See section <u>2</u>: <u>Getting Started</u> for more information about locating your user directory). If an 'epadd-delivery' folder does not already exist within your user directory, create that folder, and add the appropriate email archive (which should be a folder titled 'Email Archive of <Archive Owner>-Delivery') to that location.

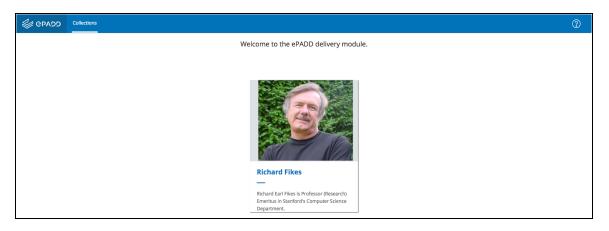
Now run the ePADD software, and select the Delivery Module from the Settings Menu. At this point, you may wish to reset the 'reviewed' status for all messages that may have been marked as 'reviewed' in the Processing Module.. To do this, navigate to the Settings Menu under Browse and select the 'Set Default Actions' button.

### 6.2 Navigating to a Collection

The Collections menu provides a user with moderated access to the email archive of any processed collections.

The user selects the collection they wish to access by clicking on the related image.

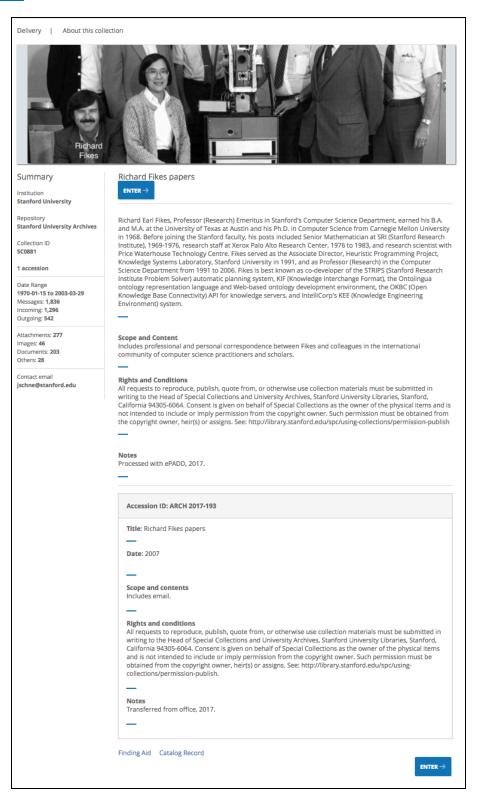




**Selecting a Collection** 

The next screen provides basic details of the collection. A user can proceed with viewing the collection by selecting the 'Enter' button.







# 6.3 Browsing the Email Archive

The Browse Menu provides a user with access to several options to browse the email archive, including by Correspondent or by extracted entity type (persons, organizations, and locations). The user can also generate complex tiered searches using a customizable lexicon, as well as browse image attachments, and download documents and other attachments to the workstation for further review.

👹 GPADD	Browse	Search	Save	Close			0
				Delivery   Dashboard			÷٤
				Richard Fikes em	ail archive Institution: Stanford U Collection ID: SC0881		
				Correspondents (1748)	Entities (2254)	Solution Labels	
	Image attachments (46)		Cither attachments (231)				
						<b>O</b> re	

**Browse Menu in the Delivery Module** 



# 6.4 Searching the Email Archive

🕼 GPADD	Browse Search Save Close	?
	Delivery   Search	Ü
	Richard Fikes email archive Institution: Stanford University Collection ID: SC0881	
	Simple Search Multi-Entity Search Multi-Term Search Correspondent List Search	
	search query	
	SEARCH→	
	Need more search options? Try Advanced Search.	

To search the email archive, navigate to the Search screen.

Besides lexicons, accessible via the Browse page, ePADD supports five types of search: simple search, advanced search, multi-entity search, multi-term search, and correspondent list search.

To use the simple search feature, simply type in your query into the simple search box available on the initial search screen. This will search across message headers (correspondents and subjects) and message text, as well as the text of all document attachments.

Once you have entered your term(s) and made your selection, click the *Search* button. The search string will appear highlighted on the message browse screen.

Advanced Search enables the user to to generate complex searches of email text, correspondents, attachments, and any actions previously taken on the messages, as well as a variety of other parameters.



	Advan	ced Search					
Text Terms							
Search body Search subject	Search attachments Search o	briginal text					
Entity							
Correspondents							
Name or email							
🗹 To 🔍 From 💟 Cc 🔍 Bcc							
Mailing List							
Ofes Ono Octore							
Attachments							
File Name		File Size					
Reg Ex		CHOOSE FILE SIZE V					
Туре		Other extension					

GPADD	
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Actions				
Annotation				Labels
				SELECT A LABEL
				JELCI A DADEL
Any annotation				More than one restriction label
Miscellaneous				
Time Range				Message Direction
YYYY - MM - DD	То	YYYY - MM - DD		Outgoing Ou
		1111 - MM - DD		
Email Source				Message Folder
SELECT			~	
Lexicons				Lexicon: Category
SELECT				SELECT
Entity type				Message ID
SELECT			~	
Accessions				
SELECT			~	
JELES I				
Sort results by				
SELECT			~	
			_	
			SEARCH $\rightarrow$	O Clear Form

Search Tips can be accessed by selecting the help button ⁽³⁾ in the top right corner of the *Advanced Search* screen.

ePADD also allows a user to search the email archive for entities contained in a given block of provided text, using *Multi-entity Search*. Any matching terms will be highlighted on the results page, and hyperlinked to corresponding messages.

Likewise, ePADD enables a user to search an email archive for multiple terms using *Multi-term Search*. Type or paste one term per line. Any matching terms will be highlighted on the results page, and hyperlinked to corresponding messages.



Finally, ePADD enables a user to search for a list of email addresses using Correspondent List Search. Type or paste one term per line to search for and apply labels to a set of email addresses.

#### 6.5 Labeling messages

ePADD allow the user to label messages as 'reviewed' to assist with keeping track of research, to add an unlimited number of custom descriptive labels, as well as to request copies of messages from the email archive. Exported messages retain user annotations.

Users can optionally apply labels to a set of messages via the label management interface. Select the label management button, located to the above right of the message pane in the message browse/search result view:

### 6.6 Downloading or Requesting Email Messages

Users can directly download a message, or set of messages, as an MBOX file using the download button located to the above right of the message pane in the message browse/search result view.



Depending on the policies of your institution, a reference librarian/archivist can transfer the MBOX file to the patron using any number of methods.

Alternatively, users can also use the label function to label sets of messages for optional review and export by public services staff, according to the policies of the institution.

**Note to Repository Staff**: After a researcher has confirmed that they have completed their work with the Delivery Module, and that the files they ordered have been successfully delivered to them, a repository staff member can remove the email archive working directories from the public workstation by deleting the following folders under the user directory: 'epadd-settings' and 'epadd-delivery.'