Email Management Services Archive Reviewer Guide

For Exchange Environments



Version 6.24 (1/2015)

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About This Book

This chapter contains the following sections:

- <u>"Intended Audience" on page v</u>
- <u>"Conventions" on page v</u>

1. Intended Audience

This book is intended for EMS Archive Reviewers. Its content assumes that you understand general computer terminology and are comfortable using a web browser and performing tasks in a user interface.

2. Conventions

The documentation uses certain typographical conventions to make references to product elements easier to recognize and understand. These are described in the following table.

Table 5-1	Typographical Conventions
-----------	---------------------------

Display Format	Definition	Examples
blue, underscore	A hyperlink to either another location within the document or to a web site.	For more information, see <u>"Conventions" on</u> page v.
bold	Name of a screen, section, pane, box, or option in the user interface.	On the Select Permissions page, locate the Access Info pane of the User Account panel.
	The name of an executable file.	To begin the installation, double-click setup.exe .
Bold italic	The name of a menu, button, or tab.	From the <i>Start</i> menu, select <i>Programs</i> .
serif	An entry you must type manually.	At the command prompt, type cmd.
	A value you type in a box or select from a list.	From the Filter drop-down list, select Starts with.
	A field value that appears in the user interface.	The Source field now reads Imported from File.

1. Overview

The EMS Archive allows you to search messages that have been retained as part of your organization's message archiving policies. If your organization uses Email Continuity, you can search these archived messages even when Email Continuity is not active.

1.1. Accessing the EMS Archive

Archive users can search their personal email archive from both desktop and mobile browsers.

- For instructions to access the personal email archive search from a desktop browser, see <u>"Task 1.1. Access the EMS Archive to search Personal Email Archive" on page 2.</u>
- For instructions to access the personal archive search from a mobile browser, see the *Mobile Webmail User Guide*.

As an Archive Reviewer, you have access privileges beyond the scope of a regular user. You can:

- Search archived email messages as required for human resources and other corporate activities. See <u>"Task 1.2. Access EMS Archive to search Company</u> <u>Archives" on page 2 and Chapter 2. "Email Archive Searches" on page 13</u>
- If your organization has Expanded Archives Services, Archive Reviewers can search archived *instant messages* in addition to searching email messages. See <u>Chapter 3. "Instant Message Archive Searches" on page 48</u>.
- Each Reviewer may be assigned one or more *Reviewer Groups*, which defines the scope of the messages the reviewer is allowed to search. For example, one Reviewer Group's scope may be emails from users in a specific division or department in a company, and another Reviewer Group's scope may be instant messages received during a specific time frame.
- Create Retention Holds, which are collections of messages resulting from archive searches. Placing messages into a Retention Hold causes them to be retained in the archive until an administrator removes the hold. See <u>"Retention Holds" on</u> page 78
- Generate Recovery Archives and Discovery Archives, which are collections of messages that meet specific search criteria. These messages can be restored to a designated mailbox by an EMS administrator or exported to a file using Export Manager. See <u>"Email and Instant Message Archives" on page 82</u>

Task 1.1. Access the EMS Archive to search Personal Email Archive

- 1) Log into Email Management Services.
- 2) On the home page there are three ways to access your personal email archive.

	\sim	\sim	
Archive		Type searc	h text here.
Search, access, and retri provides search of all text	eve email from your hist in email and attachm n	rical email archive. En ts. Find any message i	nail archive n a few clicks.
	¥		

- Click the *Archive* link in the menu at the top of the page.
- Click the Search personal mail link in the Archive section.
- Or type your search term directly in the *Keywords* text box, and click the search button.

The **Search** page appears.

Search All Mail Englis	sh 🔹 Keywords (All)	Filter by recipients	Search
6 results			
From	Subject		Received Date 🔻
Filter by sender	Filter by subject		Filter by date
🔄 bueno@dias.com	Archive Testing 2013-01-14	100 of 100	Tuesday, January 14
🔟 bueno@dias.com	Archive Testing 2013-01-14	99 of 100	Tuesday, January 14
🔟 bueno@dias.com	Archive Testing 2013-01-14	98 of 100	Tuesday, January 14
- huana@dias.com	Archive Testing 2010-01-144	17 of 100	Tuesdou Jonuon 14

Task 1.2. Access EMS Archive to search Company Archives

1) Log into Email Management Services.

2) On the home page there are two ways to access your company's archive.

	Home Continuity Archive	Preferences
	\sim	
Archive		
Search, acce provides sea	ss, and retrieve email from your historical em ch of all text in email and attachments. Find a	ail archive. Email archive any message in a few clicks.
	Keywords	٩
	nal mai Search company archives Search	ch all failed mail View recovery

- Click Search company archives in the Archive section of the page.
- Click the *Archive* link in the menu at the top of the page. When then *Archive* page appears, click the *Search Company Archives* link.

ch Personal Mai	Search Company Archi e Tage Configure Arc	ives Hive	Search All Failed	I Mail View Recovery	Archives View
Search All Mail	English	•	Keywords (All)	Filter by recipier	Search
	Garanteateateateateateateateateateateateateat		Traymont av		Countin

3) The Search Company Archives page appears.

Search Personal Mail Configure Archive	Search Company Archives	Search All Failed Mai	I View Recovery A	rchives View Retention	Holds Manage Tags
Email 🔻	New reviewer Group	 Entire Message 	 English 	 Received Date 	e, Most Recent First 🔻
Query Builder	Advanced Query Langu	lage Saved Sear	ches		
Keywords (All)	Sender	Recipients	Subject	Received Date	Other Fields ▼
			Search	Save	Reset
	Define yo	our query, then click S	Search to view your	results.	

4) To execute a search, enter search terms into one or more of the text fields and click the Search button, or to return all messages leave the search terms blank and click the Search button.

1.1.1. Supported Browsers

The following browsers fully support the EMS Archive interface:

- Firefox version 16 or higher
- Internet Explorer 8, 9 and 10

Other browsers will likely work, but have not been thoroughly tested.

1.2. About the EMS Archive Interface

1.2.1. Search Personal Mail Interface

The personal email archive interface is divided up into three basic sections: navigation, search, and results.

<u> </u>	Home	Archive Webmail	Navigati	on
Search All Mail	English	▼ Keywords (All)	Filter by recipients	Search
1092 results			Search	
rom		Subject		Received Date
Filter by sender	0	Filter by subject	0	Filter by date
🔄 blah@blah.com		Email Blast 20130703 1106 10	00 of 1000	Wednesday, July 03, 2
🖂 blah@blah.com		Email Blast 20130703 1106 99	9 of 1000 Results	Wednesday, July 03, 2

1.2.1.1. Navigation Area

The navigation area contains two sections:

- At the very top of the web page is the sign in line, that displays your username and the *Sign Out* link.
- The second section contains links to navigate to other parts of the EMS Suite.
 - Home: Returns to the EMS home page.
 - Archive: This link returns to the Archive home page.
 - **Continuity**: This link is available if your organization has Email Continuity. When Email Continuity is Active, this link displays your Webmail user interface. When Email Continuity is *inactive*, this link is grayed out and cannot be clicked.

- **Security**: This link is available if your organization has EMS Security. This link takes you to the EMS Security login page.
- *Help Desk*: If you have EMS Help Desk privileges, this link is displayed and takes you to the EMS User Account Information page.
- **Admin**: If you have EMS Administration privileges, this link is displayed and takes you to the EMS Administration Console home page.
- **Preferences**: This link takes you to the EMS Preferences and contact information page.

1.2.1.2. Personal Mail Search Area

The Personal Mail Search area contains:

- **Search Within Folder**: A button that displays a pop-up window to select the folder the search should be limited to. The label of the button is the currently selected folder. The default behavior is to *Search All Mail*.
- **Search Language**: A drop-down to select the language the search should be based upon. The label of the drop-down is the currently selected language.
- Search entry field:
 - **Keywords (AII):** All keywords entered in this field must be in the email metadata and message body, or in one of the attachments.
 - Filter by recipients: This field searches the To and Cc fields of the messages.
- Column-specific search filters, which allow you to narrow the search results by applying keyword filters to individual columns.

1.2.1.3. Results Area

The results area is a scrollable table which displays up to 1,000 results of the query, then asks the user to refine their query. The results table contains the following information for the messages that were returned by the search query:

- **From**: either the Sender's email address or the Sender's name if that information is available.
- **Subject**: the Subject of the message.
- **Received Date**: the date the Exchange server received the message.

Search results are initially displayed sorted by **Date Descending** (newest to oldest messages). To sort the search results differently, click on a column header to sort the results by that column. Click on the column header again to reverse the sort order.

When the EMS Archive page is first accessed, or when the search query field is blank, the results of the default search are displayed, which is all messages within the scope of the search.

- For a user searching their personal mail, the default search returns all the messages contained in their personal archive mailbox, which is defined as all messages sent or received by the user that are within the scope of any applied retention policies (retention policies are how administrators determine which messages are to be archived and for how long they are to be kept).
- *Results count* shows the number of messages that were matched in the query.

When a message's row is clicked, its background turns blue and its information is expanded.

	iest izzao message i		1 nady, banc 14, 2010
⊿ admin@dev.com			
		Download Message	Forward To Self
From: admin@dev.com ent Date: May 14, 2013 5:31: Subject: The Email Manager To: admin@dev.com	02 PM nent Services has been de-activated		Ű

The message details pane includes:

- **Download Message** button: Click this button to download the selected message as an EML file, which can either be saved, or opened in Microsoft Outlook.
- Forward To Self button: Click this button to forward the selected message to your email address registered with EMS Archive.
- **Message Information** button: <a>(i) : Click this button to display Message ID and Partition ID information. Click again to hide the information.
- **Message header** information: From, Sent Date, To and Cc information are displayed.
- Attachments list: The filename of each attachment, and the size of that attachment if the size information is available. Click an attachment name to download it to your computer.
- **Message Body**: The message body is displayed.

If your company uses Email Continuity and the Email Continuity service is Active, when an email message is selected, the **Download Message** button will be displayed, along with three different buttons.

- **Reply**: Click this button to bring up the EMS **Webmail Reply** window, to reply to the email message's sender.
- **Reply All**: Click this button to bring up the EMS **Webmail Reply to All** window, to reply to the email message sender and all the other recipients.
- *Forward*: Click this button to bring up the EMS **Webmail Forward** window, to forward the message to new recipients.

To collapse the message information, click the selected table row again. You can also control-click on additional table rows to expand multiple messages.

1.2.2. Search Company Archives Interface

The Company Archive interface is divided up into three basic sections: navigation, search, and results.

	Home	Continuity	Archive	Security	Admin	Preferences lavigati	on
arch Personal Mail S Ifigure Archive	Search Company A	rchives Sear	ch All Failed Ma	iil View Recov	ery Archives	View Retention	Holds Manage Tags
Email 🔻	New review	er Group 🔻	Entire Message	e 🔻 English	٠	Received Date	e, Most Recent First 🔻
Query Builder	Advanced Que	ry Language	Saved Sea	irches		Search	1
Keywords (All)	Sender	Recipi	ents	Subject	Rece	ived Date	Other Fields 🔻
				Searc	1:	Save	Reset
26 results			Tag	Create Archi	ve	Create Hold	Failure Report
] 🖂 administrat	or@dev.com					Result	Today at 1:12 A

1.2.2.1. Navigation Area

The navigation area contains three sections:

- At the very top of the web page is the sign in line, that displays your username and the *Sign Out* link.
- The second section contains links to navigate to other parts of the EMS Suite.
 - Home: Returns to the EMS home page.
 - **Continuity**: This link is available if your organization has Email Continuity. When Email Continuity is Active, this link displays your Webmail user interface. When Email Continuity is *inactive*, this link is grayed out and cannot be clicked.
 - Archive: This link returns to the EMS Archive home page.
 - **Security**: This link is available if your organization has EMS Security. This link takes you to the EMS Security login page.

- *Help Desk*: If you have EMS Help Desk privileges, this link is displayed and takes you to the EMS User Account Information page.
- **Admin**: If you have EMS Administration privileges, this link is displayed and takes you to the EMS Administration Console home page.
- **Preferences**: This link takes you to the EMS Preferences and contact information page.
- The bottom portion of the navigation area displays the various sections within Archive.
 - **Search Personal Mail**: Brings up the search interface for searching your personal mailbox of archived messages.
 - **Search Company Archives**: Brings up the search interface for your company's archives.
 - **Search All Failed Mail**: Brings up the search interface for emails that have failed some step in the archive storage and index process. Email messages will be displayed along with the reason for failure.
 - View Recovery Archives: Displays Recovery Archives created in the last 24hours or in progress.
 - *View Retention Holds*: Displays a list of Retention Holds created in the last 24-hours or in progress.
 - *Manage Tags*: Brings up the Manage Tags page that allows you to create, edit, and delete tags for all Reviewer Group you have permission to access.
 - Configure Archive: If you have EMS Administration privileges, this link is displayed and takes you to the EMS Administration Console Historical Mail > Retention Policies page.

1.2.2.2. Company Archives Search Area

The top row of the Company Archives search area contains three drop-downs:

- **Content Type**: If your organization has Expanded Archives Services, a drop-down is displayed to select the content type for which the search is to be executed: Email or Instant Messages. The label of the drop-down is the currently selected Content Type.
- **Reviewer Group Scope**: A drop-down to select the scope within which the search is to be executed. The label of the drop-down is the currently selected Reviewer Group.
- **Search Context**: A drop-down to select which parts of the email message are to be included in the query. The label of the drop-down is the currently selected search context.
- **Search Language**: A drop-down to select the language the search should be based upon. The label of the drop-down is the currently selected language.

• **Sort Order**: A drop-down to select the sort order of the search results. The label of the drop-down is the currently selected sort order.

The body of the search area contains three tabs:

- Query Builder: If this tab is selected, the central area contains search entry fields and a drop-down which adds additional query fields to the search. See <u>"Search</u> <u>Email Archive Using the Query Builder" on page 16</u>, and if your organization has Expanded Archives Services, <u>"Search Instant Message Archive Using the Query</u> <u>Builder" on page 48</u>.
- Advanced Query Language: If this tab is selected, the central area contains the query string that was created by the values entered in the Query Builder search fields or in the Saved Search, or you can enter a search query string of your own. See <u>"Search Company Archive Using the Advanced Query Language" on page 32</u> and if your organization has Expanded Archives Services, <u>"Search Instant Message Archive Using the Advanced Query Language" on page 58</u>.
- Saved Searches: If this tab is selected, the central area contains a list of saved searches. See <u>"Saved Searches" on page 65</u>.

And the lower section of the search area contains

- Search: This button executes the search.
- Save: This button saves the current query as a Saved Search.
- **Reset**. This button clears the entries in all the query fields.

1.2.2.3. Results Area

At the top of the results area is a line that contains:

- *Results count* shows the number of messages that were matched in the query.
- **Tag**: This button becomes active when one or more search results are checked, and allows the selected search results to be tagged or untagged.
- **Create Archive**: Click this button to create an archive of the search results, which can be exported. See <u>"Email and Instant Message Archives" on page 82</u>
- **Create Hold**: Click this button to create a Retention Hold, which prevents the search results from being purged. See <u>"Retention Holds" on page 78</u>
- Failure Report. If your organization is enabled for Failed Message Tracking, this button will display. Click the button to be taken to the Failed Message Report page. See <u>"Failed Message Tracking Feature" on page 88</u>

Below is a scrollable table that displays up to 1,000 results of the query. When the Archive Search page is first accessed no results are displayed, to save on Data Center resources. Once a search is executed, the results table contains differing information depending on the content type being searched.

Email search results fields:

- **Tag Checkbox**: this checkbox is used to select search results for message tagging.
- **Content Type Icon**: this icon displays the content type of the message, email or instant message, and whether or not the message includes attachments.
- From: either the Sender's email address or the Sender's name if that information is available.
- To/Cc/Bcc: the Recipients of the message.
- **Subject**: the Subject of the message.
- **Receive Date**: the date the Exchange server received the message.
- **Tags**: a list of tags that have been assigned to the message.

When an email message's row is clicked, its background turns blue and its information shown is expanded.

5 results, including 1 omitted duplicate so far	Tag	Create Archive	Create Hold	Failure Repor
vveicome to Tap				42
administrator@dev.com				April 11, 2014
To: new_t_user@dev.com				
Password change notification from	EMS			
				Download Message
From: administrator@dev.com				0
ent Date: Apr 11, 2014 2:41:43 PM				
Subject: Password change notification from EN	IS			
To: <u>new t user@dev.com</u>				
Your EMS password has been changed.				
Go to <u>here</u> to access your account from with your primary email address.	any web browse	r, and log in		
If you have questions about this notif:	ication, pleas	e contact customer su	apport.	

The message details pane includes:

- **Download Message** button: Click this button to download the selected message as an EML file, which can either be saved, or opened in Microsoft Outlook.
- **Message Information** button: <a>(i) : Click this button to display Message ID and Partition ID information. Click again to hide the information.
- **Message header** information: From, Sent Date, To and Cc information are displayed.
- Email Message Body: The message body is displayed.
- Attachments list: The filename of each attachment, and the size of that attachment if the size information is available. Click an attachment name to download it to your computer.

To collapse the message information, click the selected table row again. You can also control-click on additional table rows to expand multiple messages.

Instant Message search results fields:

- **Tag Checkbox**: this checkbox is used to select search results for message tagging.
- **Content Type Icon**: this icon displays the content type of the message, email or instant message, and whether or not the message includes attachments.
- **Originator**: user that originated the instant message in the archive.
- **Participants**: the names of the participants involved in the instant message conversation.
- **Subject**: the subject of the instant message if available, otherwise labels the participants in the conversation.
- Start Date: the date the instant message conversation began.
- **Tags**: a list of tags that have been assigned to the message.

When a message's row is clicked, its background turns blue and its information shown is expanded.

4 results	Tag	Create Archive	Create Hold	Failure Report
Conversation between jackie@de	ev.com and administra	ator@dev.com		
jackie@dev.com Participants: "jackie@dev.com" " Conversation between jackie@de	administrator@dev.com v.com and administra	" ator@dev.com	Sat	turday at 11:43 AM
				Download Message
Sent Date: Jan 10, 2015 11:43:36 AM Subject: Conversation between jackie@dev.c To: jackie@dev.com; administrator@dev	om and administrator@ <u>com</u>	dev.com		
jackie@ dev.com [2014-10-03 02:55:18 (UTC) Hello administrator@dev.com [2014-10-03 02:55:24 How are vou? jackie@dev.com [2014-10-03 02:55:30 (UTC) Good bye. administrator@dev.com [2014_10-03 02:55:35]: (UTC)]:]:			
bye	(010)].			r

🔲 🖓 iackia@dou.com

Eridov at 2:25 DM

The message details pane includes:

• **Download Message** button: Click this button to download the selected message as an EML file, which can either be saved, or opened in Microsoft Outlook.

- **Message Information** button: <a>[6] : Click this button to display Message ID and Partition ID information. Click again to hide the information.
- **Message header** information: From (originator), Sent Date (start date), Subject and To (participants) information are displayed.
- Instant Message Body: The contents of the instant message conversation is displayed.
- Attachments list: The filename of each attachment, and the size of that attachment if the size information is available. Click an attachment name to download it to your computer.

To collapse the message information, click the selected table row again. You can also control-click on additional table rows to expand multiple messages.

1.3. Archive Contents

The messages that are contained in the archives of your company's EMS Archive service are collected based on the retention policies that have been created by the EMS Archive administrators.

- For emails, the initial retention policy scope is determined at the time the Exchange server receives the email message. For instant messages, the retention policy scope is determined by the time the conversation started.
- For emails, when a message is received by the Exchange server but is not within the scope of at least one retention policy, that email message is not captured by EMS Archive and is not available to be searched.
- When retention policy durations are reached or users are moved between groups (depending on how the policies are configured), retention policies applicable to individual messages expire. Messages that are no longer under the scope of a retention policy are purged from the Archive and are not available to be searched.
- When holds are lifted, messages that are not covered by active retention polices are purged and not available to be searched.
- Messages that are members of a Retention Hold, Recovery Archive or a Discovery Archive are exempt from purge until the last applicable hold or archive is deleted, at which point they will return to the control of applicable retention policies.

2. Email Archive Searches

This chapter explains how to search for emails in the EMS Archive and what actions you can take on email messages returned in a search.

2.1. Search Personal Email

Task 2.1. Search your personal mail

- From the Email Management Services landing page, click Search Personal Mail. OR From within EMS Archive, click Search Personal Mail link in the navigation bar.
- 2) If desired, to search for emails within a certain Outlook folder, click the **Search** *Within Folder* button.

oarch All Mail	English	 Keywords (All) 	Filter by recipients	Search
----------------	---------	------------------------------------	----------------------	--------

• This bring up the folder selection window.

search within:	Malibox	
Deleted Iter		
Deleteu itel	121	
1 <u>xuuni</u>		
Junk E-Mail		
NewFolderT	oSync /	
Sent Items /		
retention /		
Search All I	fail	Cancel Select

- Folders are displaced in alphabetical order. Scroll down to display additional folders.
- Click on a folder to add it to the **Search within** path.
- Clicking on a folder name displays its sub-folders.
- This filter searches *only* within the selected folder. Sub-folders of the selected folder are *not* searched.

- Excluded Outlook folders are: Inbox¹, Drafts, Outbox, Sent Items¹, Deleted Items¹, Conflicts, Local Failures, Server Failures, Sync Issues, Contacts, Calendar, Suggested Contacts.
- Click the **Select** button when the correct folder is displayed in the **Search** within field.
- The label of the button is the currently selected Outlook folder.
- To again search all folders, click the **Search Within Folder** button, then click the **Search All Mail** button.
- **3)** If desired, select a search language from the **Search Language** drop-down menu. The label of the drop-down is the currently selected language.



Choosing a search language limits the search to emails identified as belonging to that language, plus all the language-unidentified emails. It also changes the stop word behavior (see <u>"Stop Words" on page 44</u>). To search *all* emails in the archive, select Any.

Current language choices include: Any, Arabic, Chinese (simplified & traditional), Dutch, English, French, German, Hebrew, Japanese, Portuguese, Russian, Spanish, Swedish.

- 4) Type search term(s) into the Keywords (AII) field.
 - To be considered a match, all the query criteria must be met within the scope of a document (see <u>"Queries Performed Within 'Documents'" on page 45</u>).
 - See <u>"Personal Mail Search Tips" on page 15</u> for ideas on building targeted, efficient searches.
- 5) If desired, type search term(s) into the Filter by recipients field.
 - This searches the To and Cc fields of all the messages.
 - See <u>"Personal Mail Search Tips" on page 15</u> for ideas on building targeted, efficient searches.
- 6) Click the **Search** button, or hit the ENTER key.
- 7) EMS Archive displays matching results from your archive in a table below the search box.
- 8) To further filter the search result, click in one or more of the column header filter fields and enter more search terms.
 - These terms will be AND'd with the **Keywords** field to narrow the search results.

^{1.} For this folder, the top-level folder itself will not contain emails, but its child folders will contain searchable email messages.

- Clicking in the *Received Date* field will bring up a date-picker. To filter messages for only one day, select one date and click *Done*. To filter within a date range, click on the beginning date, then click on the end date, and then click on *Done* to set the range.

Search All Mail	English	•	fault		Filter by recipier	nts				Sear	rch	
1 result												
From		Subject								Re	ceived	l Date 🤜
Filter by sender	0	alert					0	Jul	1, 20	13-J	ul 20	, 20 😭
administrator@dev	/.com	Fault Ale	e <mark>rt</mark> - Email Contin	uity Controlle	r out of contact	0	Jul	1	✓ 20)13	11/ 1 F	5,2013
						Su	Mo	Tu	We	Th	Fr	Sa
									3			
									10			
						21	22	23	24	25	26	27
						28	29	30	31			
						To	oday]			Dor	ne

- **9)** To display the body of the message, click the message's row. The message body expands beneath the message's row. Control-click to expand multiple messages. To collapse the message body, click the message's table row again.
- **10)** To change the sort order, click the column header to sort by that column. Click the column header again, to reverse the sort order.

Search results, by default, are sorted in date-descending order.

11) To return the default results (all messages), clear all the query fields and click the **Search** button or hit the ENTER key.

2.1.1. Personal Mail Search Tips

Follow these tips to create more targeted, efficient keyword searches:

- Choose specific, descriptive keywords.
- Searches are *not* case sensitive.
- Most special characters are not allowed, or are ignored, in personal mail searches.
- The one special character that is used is the dash (-), which excludes from the search results documents that contain the following term or quoted phrase.
 - For example: The search anyone -anydomain would return emails and attachments that contained anyone that did not also contain anydomain.
 - Spaces are not allowed between the "-" character and the following term or phrase.
- The Archive's search index is based on whole words or tokens, not partial words or individual letters/numbers.

- For example: The search term mail would not return documents containing the term gmail.
- The search term company would match person@company.com, but not person@newcompany.com.
- No wildcard characters are needed because search automatically adds an implied wild card (*) at the end of every search term.
 - For example a search term of gma would match gma, gmail and gmails.
- Further define your searches using quoted or un-quoted search strings. See <u>"Quoting Search Strings" on page 42</u>.
- Let the search engine help search for words with the same root. For example, if you type project the search also matches the words projected, projecting, and projects. See <u>"Stemming" on page 44</u>.
- Let the search engine speed up the search by weeding out unnecessary terms. For example, if you type the quick brown fox, it searches on quick, brown and fox, because it knows the appears in almost every email. See <u>"Stop Words"</u> on page 44.

2.2. Search Email Archive Using the Query Builder

EMS Archive provides two ways to search company archives: *Query Builder* and *Advanced Query Language*.

- The Query Builder allows Reviewers to progressively build very complex queries using easy to understand building blocks.
- Advanced Query Language allows Reviewers to directly use the EMS Archive query language to create their search criteria.

Also, a search can be created in *Query Builder* and then edited in the *Advanced Query Language* pane to further define the desired search criteria.

Both *Query Builder* and *Advanced Query Language* searches can be saved and accessed later using the *Saved Searches* feature.

Query Builder is described below. For more information about *Advanced Query Language*, see <u>"Search Company Archive Using the Advanced Query Language" on page 32</u>. For more information about *Saved Searches*, see <u>"Saved Searches" on page 65</u>.

If your organization has Expanded Archives Services, in addition to searching email messages, Archive Reviewers can search archived *instant messages*. See <u>Chapter 3.</u>, <u>"Instant Message Archive Searches" on page 48</u> for more information.

Task 2.2. Query Builder Email Archive Search

 From the Email Management Services landing page, click Search Company Archives to search a company archive for which you have Reviewer privileges. The page defaults to the Query Builder tab.

Search Personal Mail Configure Archive	Search Company Archives	Search All Failed Mail	View Recovery Arc	hives View Retention	n Holds Manage Tags
Email 🔻	New reviewer Group	Entire Message	▼ English	 Received Date 	te, Most Recent First ▼
Query Builder	Advanced Query Langua	ge Saved Sear	ches		
Keywords (All)	Sender	Recipients	Subject	Received Date	Other Fields ▼
			Search	Save	Reset
	Define you	ir query, then click S	earch to view your r	esults.	

When the archive is first accessed, the system waits for you to execute a search before results are returned. Not executing a default wildcard search greatly increases the system's response time.

2) If your organization has Expanded Archives Services, the *Content Type* dropdown appears. If it isn't selected, choose the Email content type to search archived email messages.

Search Personal Mail Configure Archive	Search Company Archives	Search All Failed Mail
Email 🔻	New reviewer Group	● ▼ Entire Message
Email		
Instant Messages	Advanced Query Lange	uage Saved Search
Keywords (All)	Sender	Recipients Su

See <u>Chapter 3., "Instant Message Archive Searches" on page 48</u> for information on searching Instant Message archives

 If you are part of more than one Reviewer Group, select the Reviewer Group scope from the *Reviewer Scope* drop-down list.



The label of the drop-down is the currently selected Reviewer Group. Only messages that match the search criteria *and* are within the scope of the selected Review Group will be displayed.

4) If desired, use the Search Context drop-down to select the portion of the message that is to be searched for this query. The selections are: Entire Message, Body Only Or Attachments Only



5) If desired, select a search language from the *Language* drop-down menu. The label of the drop-down is the currently selected language



Choosing a search language limits the search to emails identified as belonging to that language, plus all the language-unidentified emails. It also changes the stop word behavior (see <u>"Stop Words" on page 44</u>). To search *all* emails in the archive, select Any.

Current language choices include: Any, Arabic, Chinese (simplified & traditional), Dutch, English, French, German, Hebrew, Japanese, Portuguese, Russian, Spanish, and Swedish.

The default search language is English.

6) Create a query by entering values in the search fields:

Query Builder	Advanced Q	uery Language	Saved Searches		
eywords (All)	Sender	Recipients	Subject	Received Date	Other Fields 🔻

- Tab between search fields for easy navigation. Hit the ENTER key to execute the query.
- The Other Fields drop-down provides additional search fields: Keywords (Any), Exact Phrase, Involved Users, Sender (Envelope), Sender (Header), Recipients (Envelope), Recipients (Header), Recipients (CC), Total Message Size, Attachment Name, Retention Policy, Tagged, and Sampling Policy.

7) As search values are entered, they are dynamically placed above the search field boxes.

Query Builder	Advanced Query I	Language Saved Searc	hes	
	Keywords	contains (all words)	test	×
and	Received	on	07/04/2014	×
Additionally,	Sender	contains <	test	×
and 🔻	Recipients	contains •	test	×
	Subject	contains 🔻	test	×

- Entered search values are placed in rows either *above* or *below* the line.

Rows that appear above the line are all AND'd together.

Rows that appear *below* the line can **all** be AND'd or OR'd together, using the drop-down



The results of the rows *below* the line are then AND'd with the results *above* the line to produce the final query result.

- Default search fields that appear *above* the line: Keywords (All) and Received Date. These values can be entered only once.
- Default search fields that appear *below* the line: Sender, Recipients, and Subject. Multiple values can be entered for these fields and will appear on multiple rows below the line.
- Other Fields search fields that appear above the line: Keywords (Any), Exact Phrase, Involved Users, Tagged, and Sampling Policy. These values can be entered only once.
- Other Fields search fields that appear below the line: Sender (Envelope), Sender (Header), Recipients (Envelope), Recipients (Header), Recipients (CC), Total Message Size, Attachment Name, and Retention Policy. Multiple values can be entered for these fields and will appear on multiple rows below the line.
- To clear a row, click the 🔀 icon, or click the *Reset* button to clear all the rows.
- 8) Execute the search by either clicking the **Search** button or hit the ENTER key.

- 9) See <u>"Search Features" on page 42</u> for ideas on building targeted, efficient searches.
- 10) To see the query string that is generated by your search, click on the Advanced Query Language tab. This will replace the search criteria fields with a box containing the query string.

Query Builder	Advanced Query Language	Saved Searches		
(string("test", mod	e="ALL") OR string("test*", mode	="ALL"))		
		Search	Save	Reset

This field will be blank until a query is executed.

The contents of this query string field can be edited, but once edited you **cannot** return the query to the Query Builder. See <u>"Search Company Archive Using the</u> <u>Advanced Query Language" on page 32</u> for more information.

- 11) To save the query for future execution, click the **Save** button. See <u>"Saved</u> <u>Searches" on page 65</u> for more information.
- 12) The results of your search are displayed in the table below the search boxes.
 - To be considered a match, all the query criteria must be met within the scope of a document (see <u>"Queries Performed Within 'Documents'" on page 45</u>).
- 13) To sort the results list, choose the sort order from the Sort Order drop-down.

Test Reviewer Group *	Entire Message	English	Received Date, Most Recent First *
Query Builder	Advanced Query Langu	aqe Saved	Searches

Sort order options include: Received Date, Oldest First, Received Date, Most Recent First (default search order), Sender, A to Z, Sender, Z to A, Subject, A to Z, Subject, Z to A, Relevance, Most Relevant First, Relevance, Least Relevant First.

14) To display the body of the message, click the message. The message body expands beneath the message row.

When your results list contains all the messages you need, refer to the following sections for additional actions you can perform on the messages returned by the search:

- To create a Retention Hold, see "Retention Holds" on page 78.
- To create a Discovery Archive or Recovery Archive, see <u>"Email and Instant</u> <u>Message Archives" on page 82</u>.

2.2.1. Query Builder Further Information

This section describes the detailed functionality of each of the query fields.

NOTE Special Character Limitations

If you submit a query containing only a single special character (such as a tilde, parenthesis, or exclamation point), the system returns all messages within your reviewer scope. The workaround for this issue is to use at least one alphanumeric character in your query in addition to the special character.

2.2.1.1. Search By Keywords or Phrases

This section covers:

- Keywords (All)
- Keywords (Any)
- Exact phrase

Query Builder Advanced Query		Query Language	Saved Searches		
eywords (All)	Jender	Recipients	Subject	Received Date	Other Fields 🔻
					Keywords (Any)
			Search	Save	Exact Phrase

These fields can be used individually or in combination. If data is entered into more than one field, the results are AND'd together to produce the final search result.

- Keywords (All): Enter words with a space between words.
 - Stemming does apply (see <u>"Stemming" on page 44</u>), as does the implied wildcard (*) at the end of each word.
 - Stop words do apply. See "Stop Words" on page 44
 - Double-quotes are ignored.
 - Multiple search terms are AND'd together, then AND'd with the other search fields.
 - See <u>"Personal Mail Search Tips" on page 15 for further tips on using this field.</u>
- Keywords (Any): Enter keywords into the field with a space between words.
 - Neither stemming or stop words apply, and this field does *not* add the implied wildcard (*) at the end of words.
 - Double-quotes are ignored.
 - The contents of the field are OR'd together, and the result is then AND'd with the other search fields.

- If any of the keywords contain multiple words, separate each keyword with a comma, instead of a space.
 - Example: The search term: apple, pumpkin, lemon meringue searches for three terms: "apple", "pumpkin" or "lemon meringue"
- Exact phrase: Enter one phrase.
 - Double-quotes are not needed.
 - Neither stemming or stop words apply, and this field does *not* add the implied wildcard at the end of words.
 - The results of this field are AND'd with the other search terms.

The Archive's search index is based on whole words or tokens, not partial words or individual letters/numbers.

- For example: The search term mail would not return documents containing the term gmail.
- The search term company would match person@company.com, but not person@newcompany.com.

See <u>"Search Features" on page 42</u> for more information.

2.2.1.2. Search By Sender, Recipients, or Subject

This section covers:

Sender

Filters results based on whether the **From** field in the *message envelope* or *message header* contains or does not contain the value provided.

Recipients

Filters results based on whether the recipient information in the *message envelope* or in the **TO** and **CC** fields in the *message header* contains or does not contain the value you provide. Limitations on envelope searches, as described in the *Recipients* (*Envelope*) entry in <u>Table 2-1 on page 31</u>, also apply to this filter.

Subject

Filters results based on whether the message **Subject** field contains or does not contain the value provided.

Query Builder	Advanced (Query Language	Saved Searches		
(eywords (All)	Sender	Recipients	Subject	Received Date	Other Fields •
			0	Course	Deret

As entries are made to the **Sender**, **Recipients** or **Subject** fields, a query row is added to the search query *below* the line and the text box remains so more terms can be added.

Query Builder	Advanced Query	Advanced Query Language		hes	
	Keywords	contai	ins (all words)	test	×
and	Received	on		07/04/2014	×
Additionally,	Sender	conta	ains 🔻	test	×
and 🔻	Recipients	conta	ains 🔻	test	×

Each query row contains a drop-down to specify if the query is to be considered a match if the field contains or does not contain the value entered in the text box.

Subject	contains <	test				
Sender Recip	does not contain	Received Date Other Fiel	ds 🔻			

Below is more information on using the Sender, Recipients and Subject fields

- These fields can be used individually or in combination, each of these fields can be used multiple times.
- If data is entered into more than one field, the results can be AND'd or OR'd together with the rest of the query rows below the line to produce the final search result.
- Multiple search terms entered into a single text box with a space between words are AND'd together, then evaluated with the other query rows.
- Stop words do apply. See <u>"Stop Words" on page 44</u>
- Stemming does apply (see <u>"Stemming" on page 44</u>), as does the implied wildcard (*) at the end of each word.
- Double-quoted values are considered a single string and the string must be matched exactly.
- See <u>"Personal Mail Search Tips" on page 15</u> and <u>"Search Features" on page 42</u> for further tips on using these fields.

2.2.1.3. Search by Received Date

Use this field to filter the query by dates. The email date used for this query is the date the Exchange Server received the email message.

The query can be created to search on, after, or before a defined date, or between two defined dates. The after, before and between searches can also include time values.

Task 2.3. Search by date or date range

1) Click the inside the **Received Date** field to bring up the date selection pop-up.

Query Builder	Advanced G	luery Language	Saved Searches							
Keywords (All)	Sender	Recipients	Subject	Received Da	nte			Othe	er Fields	•
			Search	0 Su	Mo	July Tu	y 201 We	L4 Th	0 Reset Fr Sa	
0 results				6	7	1 8 15	2 9 16	10 17	11 12	2
From		Subject	No results found.	20	21 28	22 29	23 30	24 [31	25 26	fed Date ▼

2) In the **Calendar** display, click on a day to select that date. Click the or buttons to move backward or forward a month. (To close the pop-up, click somewhere outside it)

This inserts a row in the list of query fields. The Received Date row is above the line, meaning only one date row can be entered.

Query Builder	Advanced Query Language		Saved Searches			
	Keywords	contair	ns (all words)	test	×	
and	Received	on	•	07/04/2014	×	
Additionally,	Sender	conta	ins 🔻	test	×	
Sender			Reci	nients Subject	Other Fields *	

3) To search before or after, a defined date, or between two defined dates, select that value from the *on* drop-down menu.

	on 🔻	C
	between	t
	after	
	before	SI
-		



- Selecting before or after adds the option of adding a time.

Click inside the field to bring up the Calendar pop-up. Either type the time into the text box or use the sliders to set the hours and minutes and click **Done**. A date with 24-hour time is used, in the format: MM/DD/YYYY HH:MM.

- Selecting between adds a second date field.

Received between O7/20/2014 22:00 and O7/20/2014 23:59	×
---	---

Click inside either date field to bring up the Calendar pop-up. Then either type in the date and time or click the day and use the sliders to set the hours and minutes and click *Done*. A date with 24-hour time is used, in the format: MM/DD/YYYY HH:MM.

2.2.1.4. Search by Involved Users

The *Involved Users* query field is different than **Sender** or **Recipients** fields. *Sender* and *Recipients* are keyword searches of the character string, and refer to any email address whether they are part of the EMS system or not. *Involved Users* are only EMS system mailboxes.

Involved Users are defined by selecting Mailing Lists, User Sets, Email Servers, or individual users from a user selection pane. Involved Users can also be uploaded from a CSV file.

Task 2.4. Search by Involved Users

1) Click the Other Fields drop-down and select Involved Users.

Query Builder	Advanced 0	Query Language	Saved Searches		
Keywords (All)	Sender	Recipients	Subject	Received Date	Other Fields 🔻
					Keywords (Any)
			Search	Save	Exact Phrase
				(Involved Users
					Sender (Envelope)

2) When the *Involved Users* row is added to the list of query fields, click the **Select Users** button.

Involved Lisers	includes	LISERS	Select Users

3) The Select Users window appears.

S

er Sets Servers Mailing Lists Users	Upload Users in the Set:	
ect users using pre-defined sets.		
All Users		
	add W	
	Add	
	<u>C Remove</u>	

- 4) To upload a CSV file containing email addresses:
 - a. Click the Upload tab.
 - **b.** Click *Browse*, then navigate to and select the CSV file that contains the email addresses to upload.

Submit Cancel

c. Click *Add* to upload the file and add the addresses to the Users in the Set pane.

A warning message will be displayed if email addresses in the list cannot be matched to users on the system.

To upload correctly, the CSV file may contain multiple columns, but the column of email addresses *must* have a header row entitled Email Address.

- 5) To browse for mailboxes:
 - a. Click one of the user selection tabs (*User Sets*, *Servers*, *Mailing Lists*, or *Users*).
 - **b.** For *User Sets* and *Servers*, scroll down the list and check the box beside the correct item(s).
 - c. For *Mailing Lists* and *Users*, you can search for specific items by entering part of the user name or mailing list name in the **Search** field and clicking *Search*. Entering % (percent) will display all users or mailing lists. When you locate the correct item(s), check the check box next to the user or mailing list.
 - **d.** Then click the *Add* button between the two columns. The items you selected are added to the **Users in the Set** pane.
- 6) Repeat until all user sets, servers, mailing lists, and individual users that are to be included in the search are displayed in the Users in the Set pane.
- 7) Click *Submit* to add all the users in the list to the query and return to the search window.

The selected items will be listed in the **Involved Users** field beside the **Select Users** button.

Query Builde	Advanced Quer	y Language Sav	Saved Searches				
	Involved Users	includes	All u	users on server Offi	Select Users	×	
· · · · · · · · · · · · · · · · · · ·] [][

If these addresses are not correct, click **Select Users** again and repeat these steps.

2.2.1.5. Search by Tagged Messages

The *Tagged* search filter is located in the *Other Fields* drop-down allows Reviewers to search for messages that have been tagged with a certain value.

See <u>"Message Tagging" on page 68</u> for more information on how to tag messages and what can be done with them.

Task 2.5. Search for Tagged Messages

 When Tags are created, they are defined within the context of a specific Reviewer Group. So, when searching for tagged emails, ensure the Reviewer Group scope is properly set by first clicking the *Reset* button to clear all the search fields. 2) Click on the **Reviewer Scope** drop-down and select the Reviewer Group that contains the Tag that is being search for.



3) Click the Other Fields drop-down and select Tagged.

Keywords (All)	Sender	Recipients	Subject	Received Date	Other Fields v
					Keywords (Any)
			Search	Save	Exact Phrase Involved Users Sender (Envelope) Sender (Header) Recipients (Envelope)
	Defi	ne your query, then o	click Search to viev	v your results.	
					Recipients (Header) Recipients (CC)
					Total Message Size Attachment Name
					Rotention Policy
				(Tagged

4) When the *Tagged With* row is added to the list of query fields, click the *Tagged* drop-down to display the list of available tags.

Query Builder	Advanced Query Language		Saved Searches		
	Tagged	with	Ano	ther Test <mark>T</mark> ag	Y X
Keywords (All)	Sender	Recipients	Subject	Received Date	Other Fields 🔻

5) Select the desired Tag from the drop-down list.

Only one *Tagged With* value can be searched for in each search.

- 6) If desired, select other search terms.
- 7) Click the Search button to execute the search.

2.2.1.6. Search by Sampling Policy

The *Sampling Policy* filter is located in the *Other Fields* drop-down. When this Sampling Policy filter is included in a Reviewer query, all other terms in the query are executed first, and then a random sample of the resulting emails is returned to the user.

The *Sampling Policy* filter has the options of: 1/100, 1/1,000, 1/10,000, and 1/100,000 of the total number of messages returned by the other terms in the query.
The actual number of messages returned by the *Sampling Policy* filter depends on which individual messages are selected by the sampling algorithm. Generally, the expected number of messages will be returned by the Sampling Filter. But due to the design of the sampling algorithm, it is possible that no messages will be returned if no item was sampled by the algorithm, or more than the expected number of messages will be returned if those items are selected by the algorithm.

Queries using a *Sampling Policy* filter are reproducible. Entering the exact same search query will produce the same sample set.

Task 2.6. Use the Sampling Policy filter

1) Click the Other Fields drop-down and select Sampling Policy.



The Sampling Policy filter can be added to the query in any order, and is always evaluated last.

2) Select the desired sampling rate from the drop-down.

Query Builder	Advanced Query Lan	guage	Saved Search	es		
	Keywords	conta	ins (all words)	test		×
and	Sampling Policy	is		1/100	_	• ×
				1/100		
Sender	Recipients		Subject	1/1000	ived Date	Other Fields 🔻
				1/10000		
				1/100000		D .

3) Enter other search terms as desired. Then click the *Search* button to execute the search.

The messages selected by the Sampling Policy algorithm will be returned.

The returned messages can be used to create a Retention Hold or Discovery Archive. Recovery Archives do not support the use of the Sampling Policy filter.

2.2.1.7. Search By Other Fields

For instructions regarding using:

- Keywords (Any) and Exact Phrase, see <u>"Search By Keywords or Phrases" on page 21</u>.
- Involved Users, see "Search by Involved Users" on page 25.
- Tags, see "Search by Tagged Messages" on page 27.
- Sampling Policy, see <u>"Search by Sampling Policy" on page 28</u>.

The following applies to the remaining Other Fields filters.

Task 2.7. Apply Other Fields filters to search results

1) Click the **Other Fields** drop-down, and then choose a filter from the drop-down list.



2) A row is added to the query area, *below* the line

	Keywords	contains (all words)	test	×
Additionally,	Sender (Envelope)	contains •	Sender (Envelope)	×
and 🔻	Recipients (Envelope)	contains •	Recipients (Envelope)	×

- 3) Click inside the row's text box and enter the search term
- 4) Click the *Operator* drop-down to select the operator for the row.

The field's label and default value is the first value in the list.

- 5) Refer to <u>Table 2-1</u> for a list of **Other Fields**, their operators and the values you can use.
- 6) Click the Other Fields drop-down to add another filter to the list.
- 7) Repeat the process until all desired filters have been added to the query.

Table 2-1Other Fields Options

Filter	Operators	Values/Notes
Sender (Envelope)	 contains does not contain	Filters results based on whether the From field in the message envelope contains or does not contain the value provided.
Sender (Header)	 contains does not contain	Filters results based on whether the From field in the message header contains or does not contain the value provided.
Recipients (Envelope)	 contains does not contain	Filters results based on whether the recipient information in the <i>message envelope</i> contains or does not contain the value provided.
		For non-journaled messages: This filter can be used to search for Bcc recipients. (NOTE : Only email addresses found in retention policies can be found using this option. It will not find any email addresses that are external to your organization or not subject to a retention policy.)
Recipients (Header)	 contains does not contain	Filters results based on whether the To field in the <i>message header</i> contains or does not contain the value provided.
Recipients (CC)	containsdoes not contain	Filters results based on whether the Cc field in the <i>message header</i> contains or does not contain the value provided.

Filter	Operators	Values/Notes
Total Message Size	is (bytes)is not (bytes)	Filters results based on whether the total size of the message and its attachments in bytes is (exactly), is not (exactly), is less than, or is
	 is greater than (bytes) 	greater than the value provided.
	 is less than (bytes) 	
Attachment Name	• contains	Filters results based on whether the name of the attachment contains the value provided.
		Is not case sensitive. Adds an implied wildcard.
Retention Policy	• is	Filters results based on the retention policy chosen from the drop-down list.
		Messages must meet all the other filter criteria and be a part of the selected Retention Policy.

Table 2-1 Other Fields Options (Continued)

2.3. Search Company Archive Using the Advanced Query Language

Reviewers can use the Advanced Query Language search mode to submit complex searches, such as those that:

- Use specific terms, such as all messages that include the phrase <code>Quarterly Report</code>.
- Use comparisons, such as all messages sent between December 25 and August 1st, or all messages greater than 4 KB but less than 8 KB.
- Use the Boolean operators AND, OR, and NOT to refine searches, such as messages from bob@genericorp.com AND that are smaller than 4 KB.
- Search for terms in proximity to other terms, such as terms that appear within four words of each other in a specified order.
- Edit searches generated in the Query Builder tab.

2.3.1. Build an Advanced Query Language Query

NOTE Limitations When Formulating Long Queries

In Internet Explorer, the URL length limit of 2083 characters can cause errors when executing a long discovery query. If a query URL exceeds the character limit, Internet Explorer will display an error message and the query will not execute.

This scenario is most likely when using the Query Builder options to build a complex query containing many search parameters. Simple searches are not likely to trigger this issue.

One workaround is to use a web browser with longer URL character limits, such as Mozilla Firefox. Another workaround is to narrow the search to fewer parameters.

Task 2.8. Build a query using Advanced Query Language

1) Click the *Advanced Query Language* tab. The Advanced Query Language search pane appears.



2) If you are part of more than one Reviewer Group, select the Reviewer Group scope from the *Reviewer Group* drop-down list.



The label of the drop-down is the currently selected Reviewer Group. Only messages that match the search criteria *and* are within the scope of the selected Review Group will be displayed.

3) If desired, use the Search Context drop-down to select the portion of the message that is to be searched for this query. The selections are: Entire Message, Body Only Or Attachments Only

lew reviewer Group	Entire Message • Englis	¦h ▼
Query Builder	Advanced Query Language	Saved Searches
Ndvanced Query Lan	nijana	

4) If desired, select a search language from the **Search Language** drop-down menu. The label of the drop-down is the currently selected language.

lew reviewer Group 🔻	Entire Message Englis	sh	
Query Builder	Advanced Query Language	Saved Searches	

Choosing a search language limits the search to emails identified as belonging to that language, plus all the language-unidentified emails. It also changes the stop word behavior (see <u>"Stop Words" on page 44</u>). To search *all* emails in the archive, select Any.

Current language choices include: Any, Arabic, Chinese (simplified & traditional), Dutch, English, French, German, Hebrew, Japanese, Portuguese, Russian, Spanish, and Swedish.

The default search language is English.

5) Type your Query Language search string into the Advanced Query Language text field.

Query Builder	Advanced Query Language	Saved Searches	
Advanced Query Lang	guage		
		Character Character	D

- Use the syntax, fields, and options described in <u>Table 2-2</u>, "Query Language <u>Fields" on page 35</u>.
- The **Advanced Query Language** field does *not* implement <u>Stemming</u>. You must use the wildcard character (*) to expand Query Language searches beyond the search strings you enter.

For example, to search for all the terms (project, projected, projecting, projector, or projects) in the message subject, add subject: "project*" to your query.

- If an unquoted string is entered into the Advanced Query Language box without other syntax, the search engine implements a "google style" search, instead of giving a syntax error.

This means the result set includes documents which match all terms as well as documents which match some of the terms, ranked by relevance.

Putting double quotes around the query causes it to be a phrase match rather than a "google style" match.

- See the examples listed under <u>2.3.2., "Query Language Examples" on page 39</u> for additional guidance.
- 6) Execute the search by either clicking the Search button or hit the ENTER key.
- 7) To save the query for future execution, click the **Save** button. See <u>"Saved</u> <u>Searches" on page 65</u> for more information.
- 8) The results of your search are displayed in the table below the search boxes.

When your results list contains all the messages you need, refer to the following sections for additional actions you can perform on the messages returned by the search:

- To create a Retention Hold, see <u>"Retention Holds" on page 78</u>.
- To create a Discovery Archive, see <u>"Email and Instant Message Archives" on page 82</u>.

Table 2-2	Query Langu	age Fields
-----------	-------------	------------

Field	Description	Туре	Example
altrecipients ¹	Alternative recipients listed in the To field or Cc field of the envelope journal report.	String	altrecipients: bob_anderson@ genericorp.com
attachedfiles	 A filename (If filename contains spaces, enclose in quotes) 	String	 attachedfiles: picture.jpg
	 Filenames joined by Boolean expressions (If filename contains spaces, enclose in quotes) 		 attachedfiles: picture.jpg or "second picture.jpg"
	 To match an ordered list of attachments use a semicolon separated list of all filenames, enclosed in quotes (No need to add extra quotes to filenames with spaces) 		 attachedfiles: "report.xls; report.doc; Quarterly Report.ppt"
content	The content of the message.	String	content:"Q4 results"
dlists ¹	Distribution lists listed in the To field or Cc field of the envelope journal report.	String	dlists: all_employees@ genericorp.com

Field	Description	Туре	Example
emaildate	The date specified in the Sent Date field of the message header.	Date	To find messages sent between January 1, 2008, midnight (local) and January
	To search by date only, use the form YYYY-MM-DD.		3, 2009, midnight (local): emaildate:range
	To search by date and time, use the form YYYY-MM-DDThh:mm:ssZ.		(2008-01-01T05:00:00, 2009-01-03T05:00:00)
	 T is a required constant that identifies the following characters as times. 		To find messages received after Aug. 21, 2012 use: emaildate:>2012-08-21
	 z is an optional UTC (Coordinated Universal Time) time zone identifier. UTC is default. 		To find messages received before Aug. 21, 2012, use:
	 Use 24-hour clock when specifying time. 		emaildate:<2012-08-21
	Use min and/or max to specify earliest/latest dates.		
	Use < or > to specify dates before or after a certain date.		
	Note: By default, emaildate is stored as UTC (GMT) time. To search using your local time zone value, use the TIME value to manually compensate for the number of hours offset from UTC. For example: T05:00:00 is midnight in the US- Central time zone.		
envrecipients	The recipient information contained in the message envelope. ²	String	envrecipients: bob_anderson@ genericorp.com
	<i>For non-journaled messages</i> : This field can be used to search for Bcc recipients. NOTE : Only email addresses found in retention policies can be found using this option. It will not find any email addresses that are external to your organization or not included in a retention policy. <i>For envelope journaled messages</i> : This field contains all recipient information.		
envsender	The sender information contained in the message envelope. ²	String	envsender:bob_ anderson@ genericorp.com

Table 2-2Query Language Fields

Table 2-2	Query	Language	Fields
-----------	-------	----------	--------

Field	Description	Туре	Example
filename	The file name of a document or message.	String	<pre>filename:report.xl s and isattachment:1</pre>
	• When searching for an attachment, also set isattachment:1 for the attachment file name.		
	 To search for a message, set isattachment:0. 		
isattachment	An indicator of whether the document is an email attachment or a message.	Integer	filename:report.xl s and
	• To indicate that the document is an attachment, set isattachment:1.		isattachment:1
	• To indicate that the document is not an attachment, set isattachment:0.		
mailbcc ¹	Recipients listed in the Bcc field of the envelope journal report.	String	<pre>mailbcc: bob_anderson@ genericorp.com</pre>
mailbccaltrecipient ¹	Alternative recipients listed in the Bcc field of the envelope journal report.	String	<pre>mailbccaltrecipient: bob_anderson@ genericorp.com</pre>
mailbccdlist ¹	Distribution lists listed in the Bcc field of the envelope journal report.	String	<pre>mailbccdlist: all_employees@ genericorp.com</pre>
mailcc	The recipients listed in the Cc field of the message header.	String	<pre>mailcc:bob@ genericorp.com</pre>
mailccaltrecipient ¹	Alternative recipients listed in the Cc field of the envelope journal report.	String	<pre>mailccaltrecipient bob_anderson@ genericorp.com</pre>
mailccdlist ¹	Distribution lists listed in the Cc field of the envelope journal report.	String	<pre>mailccdlist: all_employees@ genericorp.com</pre>
mailfrom	The sender listed in the From field of the message header.	String	<pre>mailfrom:bob@ genericorp.com</pre>
mailsubject	The subject of the message.	String	mailsubject:
	 If value contains spaces, enclose in double-quotes. 		"yuarterly Report"
mailto	The recipients listed in the To field of the message header.	String	<pre>mailto: bob@genericorp.com</pre>
mailtoaltrecipient ¹	Alternative recipients listed in the To field of the envelope journal report.	String	<pre>mailtoaltrecipient bob_anderson@ genericorp.com</pre>

Field	Description	Туре	Example
mailtodlist ¹	Distribution lists recipients listed in the To field of the envelope journal report.	String	<pre>mailtodlist: all_employees@ genericorp.com</pre>
receiveddate	The date the message was received by the email server.	Date	To find all messages received on or after February 3, 2008,
	To search by date only, use the form YYYY-MM-DD.		(2008-02-03, max).
	To search by date and time, use the form YYYY-MM-DDThh:mm:ssZ.		before February 3, 2008, use receiveddate:range
	 T is a required constant that identifies the following characters as times. 		(min, 2008-02-03)
	 z is an optional UTC time zone identifier. UTC is default. 		
	 Use 24-hour clock when specifying time. 		
	Use min and/or max to specify earliest/latest dates.		
	Note: By default, receivedate is stored as UTC (GMT) time. To search using your local time zone value, use the TIME value to manually compensate for the number of hours offset from UTC. For example: T05:00:00 is midnight in the US- Central time zone.		
recipients	The recipients listed in one or more of the following:	String	(recipients:bob@ genericorp.com OR
	 The list of recipient information contained in the message envelope (see envrecipient field for details) 		recipients:sue@ genericorp.com)
	 The To field of the message header. 		
	 The Cc field of the message header. 		
	 Distribution lists listed in the To field or Cc field of envelope journal report.¹ 		
	 Alternative recipients listed in the To field or Cc field of envelope journal report.¹ 		

Table 2-2	Query Language Fields
-----------	-----------------------

Field	Description	Туре	Example
senders	The list of senders in the message envelope ² or the From field of the message header.	String	(senders:bob@ genericorp.com OR senders:sue@ genericorp.com)
size	The size of document (message or attachment) in bytes. Express sizes in bytes. For example, 4 KB as 4096. Use < or > to specify sizes greater or less than a certain size.	Integer	To find all messages (messages only, without attachments) with a total size of at least 4KB but no greater than 8KB, use size:range (4096, 8192)
totalsize	The size of the message, in bytes, including all attachments. Express sizes in bytes. For example, 4 KB as 4096. Or use < or > to specify sizes greater or less than a certain size.	Integer	To find all messages with a total size (messages and attachments) of at least 8KB or greater, use totalsize:range (8192, max)
undisclosedrecipients ¹	 Undisclosed recipients listed in one or more of the following: The list of recipients in the Bcc field of the envelope journal report. The list of distribution lists in the Bcc field of the envelope journal report. The list of alternative recipients in the Bcc field of the envelope journal report. 	String	undisclosedrecipients : bob_anderson@ genericorp.com

1. This search field is only applicable to envelope journaled messages.

2. The **message envelope** is the wrapper that contains the message's delivery directives.

2.3.2. Query Language Examples

2.3.2.1. Field Search

To search for a term in any field, type:

field:term

where

- field is one of the fields in Table 2-2
- term is the value you want to find. To find a phrase, enclose it in double quotation marks.

For example:

To find all messages that include the phrase Quarterly Report in the Subject field

```
mailsubject:"Quarterly Report"
```

To find all messages sent from the email address bob@genericorp.com

mailfrom:bob@genericorp.com

```
NOTE Message Envelope Search Limitations For Non-Journaled Messages
```

Message envelope searches (*Recipients (Envelope*) and *All Recipients* filters, or *envrecipients* and *recipients* query language fields) can only search the envelope information that EMS is able to capture.

For undisclosed recipient information (including Bcc recipients), the only addresses that will be captured are internal addresses included in a retention policy.

When searching for undisclosed recipients, the undisclosed recipient headers will not be visible in the search results but the relevant messages will be included in the result set.

2.3.2.2. Search For Range of Dates or Sizes

To search for mail using a range of dates or a range of sizes, type

```
field:range(start, end)
```

where

- field is emaildate, receiveddate, totalsize, or size
- range defines the beginning and ending points of the search. min indicates the minimum size or date, and max indicates the maximum size or date.

For example:

To find all messages with a total size that is at least 4 KB but no greater than 8 KB

totalsize:range(4096, 8192)

To find all messages sent between December 25, 2003 and August 1, 2005 (local time)

emaildate:range(2003-12-25T05:00:00, 2005-08-01T05:00:00)

To find messages sent before December 25, 200 (local time)

emaildate:range(min, 2008-12-25T05:00:00)

To find messages received on or after August 2, 2005 (local time)

receiveddate:range(2005-08-02T05:00:00, max)

2.3.2.3. Proximity Search

NEAR

To search for words in proximity to each other, type:

```
near(arg, arg, n=numericValue)
```

where:

- arg is a word you want to find (use as many as are required, following each by a comma)
- n=numericValue the *slop* for the search.

Slop is defined as the cumulative number of places that tokens may be moved in order to be considered a match the given phrase.

For example:

near(big, red, car, n=0) matches:

• the exact phrase "big red car"

near(big, red, car, n=1) matches:

- the phrase "big red * car" ("car" moved one token)
- and all phrases matched by n=0
- but does NOT match "big * red car" (both "red" and "car" moved one token, for a total slop of 2)

near(big, red, car, n=2) matches:

- the phrase "big red * * car" (car moved two tokens)
- the phrase "big * red car" (both "red" and "car" moved one token)
- the phrase "red big car" (both "big" and "red" moved one token)
- and all phrases matched by n=1 and n=0
- but does NOT match "big * * red car" (both "red" and "car" moved two tokens, for a total slop of 4)

2.3.2.4. Boolean Operators

To combine search expressions using Boolean operators (AND, OR and NOT), use:

- AND between terms, to indicate both terms must be matched
- OR *between* terms, to indicate *either* term may be matched, but at least one *must* match
- NOT as a prefix to a term, to find terms that do not match the specified criteria
- Use matched parenthesis, '(' ')', to group terms

For example:

To find messages that include either the phrase financial report or the phrase balance sheet and were sent before December 25, 2003 or after August 1, 2005, but not between those dates

```
NOT (emaildate:range (2003-12-25T05:00:00, 2005-08-01T05:00:00))
AND ("financial report" OR "balance sheet")
```

2.3.2.5. Find Partially Indexed Documents

To find only partially indexed documents, such as those that are too large or have damaged metadata, add AND indexlevel:1 to the query.

To find documents sent before December 31, 2008 that have not been fully indexed

emaildate:range(min, 2008-12-31) AND indexlevel:1

2.4. Search Features

2.4.1. Quoting Search Strings

Non-Quoted Search Strings

When a non-quoted search string is entered, the search algorithm implements both the stop word and stemming functions.

First, it determines if any of the terms are <u>Stop Words</u> for the appropriate language. If so, it ignores the term.

Secondly, the search mechanism implements the <u>Stemming</u> function.

Example:

• Search language: English

- Search string: by tomorrow night
- Matches:
 - All English emails containing both (tomorrow or tomorrows or tomorrow's) and (night or nightly or nights or night's), ignoring the stop word by
 - AND All language-unidentified emails containing the specific words by, tomorrow and night

Quoted Search Strings In Search Personal Mail

When a quoted search string is entered, <u>Stop Words</u> and <u>Stemming</u> are again invoked, but stop words behave slightly differently.

If the quoted search string includes a stop word, the stop word is replaced with a wildcard that matches *any* stop word.

Example:

- Search language: English
- Search string: "the financial report"
- Matches:
 - All English emails containing "(any stop word) financial(stemming applied) report(stemming applied)"
 - such as a financially reported or the financial reports
 - AND All language-unidentified emails containing the exact phrase the financial report

Quoted Search Strings In Search Company Archives

When using quoted search strings, neither <u>Stop Words</u> nor <u>Stemming</u> functions are applied to the string.

Example:

- Search string: "by tomorrow night"
- Matches:
 - All emails containing the exact phrase by tomorrow night in the search language specified plus the language-unidentified emails

2.4.2. Stemming

To make searching more intuitive, the concept of *stemming* has been implemented. Stemming means that the search mechanism matches not only the exact term entered, but also returns matches based on the same 'stem' or root word of the search term(s).

Example:

Search string: finance mouse

- Matches: finance mouse, finance's moused and financing mouser
- But not: financial mice

Stemming typically matches the stems to regular verbs, regular plurals and regular possessives.

Irregular formations are implemented... well... irregularly, so some experimentation may be needed to produce the desired search results. For example: mice returns mouse, but mouse does not return mice.

Depending on the language being searched, words are stemmed differently. Typically in English, stemming is implemented based on suffixes. In other languages, stemming may be based on prefixes, infixes and/or suffixes, or not performed at all.

NOTE Stemmed search function does not apply to some languages

If **Chinese** or **Japanese** is chosen from the **Search Languages** menu, the Simple Query search performs a literal search on the entered terms.

2.4.3. Stop Words

To make searching more efficient, the concept of *stop words* has been implemented. Stop words are words that are not indexed in the search database (just like all the instances of the word 'the' would not appear in the index of a book) which greatly improves search response times.

Below is the list of currently implemented stop words for English:

а	are	be	for	it	or
an	as	but	in	of	the
and	at	by	is	on	to

Stop words are not implemented for the Chinese, Japanese or Hebrew languages. Stop words for all implemented languages are listed in <u>"Appendix A: Stop Words" on page 95</u>.

The exact function of stop words depends on the **Search Language** selection. If a specific language is selected, then the stop words for that language are used when returning search results. *Plus*, search results are returned for all emails whose language cannot be determined which match all search terms.

Example:

- Search language: English
- Search string: by tomorrow
- Matches:
 - All English emails containing tomorrow, ignoring the stop word by
 - AND All language-unidentified emails containing both the words by and tomorrow

If the search language is set to Any, the search algorithm determines if any of the terms are stop words for any language, and if so, it ignores the term for emails tagged with that specific language.

Example:

- Search language: Any
- Search string: by tomorrow
- Matches:
 - All English emails containing tomorrow, ignoring the stop word by
 - AND All emails in all other language, including language-unidentified emails, containing both the words by and tomorrow

2.4.4. Queries Performed Within 'Documents'

All queries are performed within documents

To be considered a match, multi-term searches require that *all* search terms appear in the contents of *one* document,

A document is an:

- Email body and metadata
- Individual attachment (whether email message or file) and its metadata

Metadata includes: Subject, From, To, Date, Attachment name, etc.

For example:

• Two search terms are given, and

- one term appears only in the body of the email
- and the second term appears only in the attachment,
- that message would *not* be returned as a match, because the message body and the attachment are considered to be *separate* documents.

Another example:

- The search term specified is the **To** recipient's user name (user_name@company.com) and one of the matched message has three attachments.
- Because the To recipient's email address appears in the metadata for all attachments, that single message would return four matches, because the message body and the attachment are considered to be *separate* documents.

3. Instant Message Archive Searches

If your organization has EMS Expanded Archive Services, Archive Reviewers can search archived *instant messages* in addition to searching email messages.

This chapter explains how to search the Instant Message archive and what actions you can take on messages returned by a search. See <u>Chapter 2. "Email Archive Searches"</u> on page 13 for information on searching Email messages.

3.1. Search Instant Message Archive Using the Query Builder

The EMS Archive provides two ways to search instant message archives: *Query Builder* and *Advanced Query Language*.

- The Query Builder allows Reviewers to progressively build very complex queries using easy to understand building blocks.
- Advanced Query Language allows Reviewers to directly use the EMS Archive query language to create their search criteria.

Also, a search can be created in *Query Builder* and then edited in the *Advanced Query Language* pane to further define the desired search criteria.

Both *Query Builder* and *Advanced Query Language* searches can be saved and accessed later using the *Saved Searches* feature.

Query Builder is described below. For more information about *Advanced Query Language*, see <u>"Search Instant Message Archive Using the Advanced Query Language"</u> <u>on page 58</u>. For more information about *Saved Searches*, see <u>"Saved Searches" on</u> <u>page 65</u>.

Task 3.1. Query Builder Instant Message Archive Search

 From the Email Management Services landing page, click Search Company Archives to search a company archive for which you have Reviewer privileges. The page defaults to the Query Builder tab.

Search Personal Mail Configure Archive	Search Company Archives	Search All Failed Mail	View Recovery Arc	hives View Retention	Holds Manage Tags
Email 🔻	New reviewer Group	 Entire Message 	▼ English	 Received Dat 	e, Most Recent First ▼
Query Builder	Advanced Query Langua	age Saved Sear	ches		
Keywords (All)	Sender	Recipients	Subject	Received Date	Other Fields 🔻
		I	Search	Save	Reset
	Define you	ur query, then click S	earch to view your r	esults.	

2) The *Content Type* drop-down appears. If it isn't selected, choose the Instant Message content type to search archived instant messages.

Search Personal Mail Configure Archive	Search Company Archives Se	arch All Failed Mail
Email 🔻	New reviewer Group 🔻	Entire Message
Email		
Instant Messages	Advanced Query Language	Saved Search
Keywords (All)	Sender Reci	oients Su

See <u>Chapter 2. "Email Archive Searches" on page 13</u> for information on searching Instant Message archives

3) If you are part of more than one Reviewer Group, select the Reviewer Group scope from the *Reviewer Scope* drop-down list.

stant Messages 🔻	IM Reviewer Gr	oup	inglish	Y	Received Date	, Most Recent First *
			0 10			
Query Builder	Advanced Query L	anguage	Saved S	earcnes		

The label of the drop-down is the currently selected Reviewer Group. Only messages that match the search criteria *and* are within the scope of the selected Review Group will be displayed.

4) If desired, select a search language from the **Search Language** drop-down menu. The label of the drop-down is the currently selected language.



Choosing a search language limits the search to messages identified as belonging to that language, plus all the language-unidentified messages. It also changes the stop word behavior (see <u>"Stop Words" on page 44</u>). To search *all* messages in the archive, select Any.

Current language choices include: Any, Arabic, Chinese (simplified & traditional), Dutch, English, French, German, Hebrew, Japanese, Portuguese, Russian, Spanish, and Swedish.

The default search language is English.

5) Create a query by entering values in the search fields:

Query Builder	Advanced Query L	anguage	Saved Searc	ches		
(eywords <mark>(</mark> All)	Participants	Subj	iect	Sta	nt <mark>D</mark> ate	Other Fields 🔻

- Tab between search fields for easy navigation. Hit the ENTER key to execute the query.
- The Other Fields drop-down provides additional search fields: Keywords (Any), Exact Phrase, Involved Users, Total Size, Attachment Name, Retention Policy, Tagged and Sampling Policy.

6) As search values are entered, they are dynamically placed above the search field boxes.

eywords (contains (all words)	test	×
tarted	on 🔻	01/01/2015	×
Participants	contains V	test	~
Subject	contains •	test	×
5	tarted [tarted on •	tarted on on Image: Original system articipants contains ubject contains test

- Entered search values are placed in rows either above or below the line.

Rows that appear *above* the line are all AND'd together.

Rows that appear below the line can all be ${\tt AND}{}'d$ or ${\tt OR}{}'d$ together, using the drop-down

Additionally,	Se
and	Re
and	Su

The results of the rows *below* the line are then AND'd with the results *above* the line to produce the final query result.

- Default search fields that appear *above* the line: Keywords (All) and Start Date. These values can be entered only once.
- Default search fields that appear *below* the line: Participants, and Subject. Multiple values can be entered for these fields and will appear on multiple rows below the line.
- Other Fields search fields that appear above the line: Keywords (Any), Exact Phrase, Involved Users, Tagged, and Sampling Policy. These values can be entered only once.
- Other Fields search fields that appear below the line: Total Size, Attachment Name, and Retention Policy. Multiple values can be entered for these fields and will appear on multiple rows below the line.
- To clear a row, click the 🔀 icon, or click the *Reset* button to clear all the rows.
- 7) Execute the search by either clicking the Search button or hit the ENTER key.
- 8) See <u>"Search Features" on page 42</u> for ideas on building targeted, efficient searches.

9) To see the query string that is generated by your search, click on the Advanced Query Language tab. This will replace the search criteria fields with a box containing the query string.

Query Builder	Advanced Query Language	Saved Searches	
(string("test", mod	e="ALL") OR string("test*", mode	="ALL"))	

This field will be blank until a query is executed.

The contents of this query string field can be edited, but once edited, you **cannot** return the query to the Query Builder. See <u>"Search Instant Message Archive Using</u> the Advanced Query Language" on page 58 for more information.

10) To save the query for future execution, click the **Save** button. See <u>"Saved</u> <u>Searches" on page 65</u> for more information.

11) The result of your search is displayed in the table below the search boxes.

- To be considered a match, all the query criteria must be met within the scope of a document (see <u>"Queries Performed Within 'Documents'" on page 45</u>).
- **12)** To display the body of the message, click the message. The instant message conversation expands beneath the message row.

When your results list contains all the messages you need, refer to the following sections for additional actions you can perform on the messages returned by the search:

- To create a Retention Hold, see "Retention Holds" on page 78.
- To create a Discovery Archive, see <u>"Email and Instant Message Archives" on page 82</u>.

3.1.1. Query Builder Further Information

This section describes the detailed functionality of each of the query fields.

NOTE Special Character Limitations

If you submit a query containing only a single special character (such as a tilde, parenthesis, or exclamation point), the system returns all messages within your reviewer scope. The workaround for this issue is to use at least one alphanumeric character in your query in addition to the special character.

3.1.1.1. Search By Keywords or Phrases

Keywords (AII), **Keywords (Any)**, and **Exact phrase** function exactly the same for IM searches as they do for email searches. See <u>"Search By Keywords or Phrases" on page 21</u> for more information.

3.1.1.2. Search By Participants or Subject

This section covers:

Participants

Filters results based on whether the **Participants** of the Instant Message conversation contains or does not contain the value provided.

Subject

Filters results based on whether the conversation's **Subject** field contains or does not contain the value provided.

As entries are made to the **Participants** or **Subject** fields, a query row is added to the search query *below* the line and the text box remains so more terms can be added.

	Keywords	contains (all word	s) test		×
and	Started	on	• 01/01/201	5	×
Additionally,	Participants	contains	• test		×
and	Subject	contains	▼ test		×

Each query row contains a drop-down to specify if the query is to be considered a match if the field contains or does not contain the value entered in the text box.

Subject	contains •	test	×
 Participants 	contains	test	×
	does not contain	-	
Participants	Subject	Start Date	Other Fields 🔻

Below is more information on using the Participants and Subject fields

• These fields can be used individually or in combination, each of these fields can be used multiple times.

- If data is entered into more than one field, the results can be AND'd or OR'd together with the rest of the query rows below the line to produce the final search result.
- Multiple search terms entered into a single text box with a space between words are AND'd together, then evaluated with the other query rows.
- Stop words do apply. See <u>"Stop Words" on page 44</u>
- Stemming does apply (see <u>"Stemming" on page 44</u>), as does the implied wildcard (*) at the end of each word.
- Double-quoted values are considered a single string and the string must be matched exactly.
- See <u>"Search Features" on page 42 for further tips on using these fields.</u>

3.1.1.3. Search by Start Date

Use this field to filter the query by dates. The Start Date used for this query is the date the instant message conversation began.

The query can be created to search on, after, or before a defined date, or between two defined dates. The after, before and between searches can also include time values.

Task 3.2. Search by start date or date range

1) Click the inside the Start Date field to bring up the date selection pop-up.

Query Builder	Advanced Query Language	Saved Searches	s						
Keywords (All)	Participants Subject	Start Date					C	Other	Fields 🔻
					Janu	uary 2	015		^
		Search	Su	Mga	ŢŲ	We	Th	Fr	R ⁸ eset
		_	4		6		1 8	2 9	3 10
	Define your query, then	click Search to vie	ew yo <mark>llr</mark>	re ¹²	ts ¹³	14	15	16	17
			18	19	20	21	22	23	24
			25	20	21	20	29	30	31

2) In the **Calendar** display, click on a day to select that date. Click the or buttons to move backward or forward a month. (To close the pop-up, click somewhere outside it.)

This inserts a row in the list of query fields. The Start Date row is above the line, meaning only one date row can be entered.

	Query Builder	Advanced Query Langu	age Saved Sea	arches	
		Keywords	contains (all words	i) test	×
(and	Started	on	• 01/01/2015	×)
	Additionally,	Participants	contains	• test	×

3) To search before or after, a defined date, or between two defined dates, select that value from the *on* drop-down menu.

	. ,	_
	on 🔻	C
	on	-
	between	t
	after	
ts.	before	SI
		0.

- Selecting before or after adds the option of adding a time.

•	07/04	1/2	014 (00:00					
	0			Jul	y 20	14	0		
	s	u	мо	biect	We	Th	Fr	Sa	
-						3	4		
		6	7	Se 8 r	ch 9	10	11	12 _S	ave
		13	14	15	16	17	18	19	
		20	21	22	23	24	25	26	
		27	28	29	30	31			
	т	im	e:	0	0:00				
rest	ilts fdH M	lou lini	r: ute:						
		No	w				Do	ne	

Click inside the field to bring up the Calendar pop-up. Either type the time into the text box or use the sliders to set the hours and minutes and click **Done**. A date with 24-hour time is used, in the format: MM/DD/YYYY HH:MM.

- Selecting between adds a second date field.

Started	between •	-	01/01/2015 00:00	and	01/01/2015 23:59	×	¢
		_					

Click inside either date field to bring up the Calendar pop-up. Then either type in the date and time or click the day and use the sliders to set the hours and minutes and click *Done*. A date with 24-hour time is used, in the format: MM/ DD/YYYY HH:MM.

3.1.1.4. Search By Other Fields

The following query fields function the same for instant message searches as they do for email searches. Refer to the email search instructions for more details:

- Keywords (Any) and Exact Phrase: <u>"Search By Keywords or Phrases" on page 21</u>.
- Involved Users: "Search by Involved Users" on page 25.
- Tagged: "Search by Tagged Messages" on page 27.
- Sampling Policy: <u>"Search by Sampling Policy" on page 28</u>.

The following task gives instructions for the remaining **Other Fields** filters.

Task 3.3. Apply Other Fields filters to search results

1) Click the **Other Fields** drop-down, and then choose a filter from the drop-down list.



2) A row is added to the query area, below the line

	Keywords	contains (all wo	ords)	test	×
Additionally,	Participants	contains	•	test	×
and	Total Size	is (bytes)	•	Total Size	×

- 3) Click inside the row's text box and enter the search term
- 4) Click the *Operator* drop-down to select the operator for the row.

The field's label and initial value is the first value in the list.

- 5) Refer to <u>Table 3-1</u> for a list of *Other Fields*, their operators and the values you can use.
- 6) Click the Other Fields drop-down to add another filter to the list.
- 7) Repeat the process until all desired filters are listed.

Table 3-1	Other Fields Option	ns
-----------	---------------------	----

Filter	Operators	Values/Notes
Total Message Size	 is (bytes) is not (bytes) is greater than (bytes) 	Filters results based on whether the total size of the message and its attachments in bytes is (exactly), is not (exactly), is less than, or is greater than the value provided.
	• is less than (bytes)	
Attachment Name	• contains	Filters results based on whether the name of the attachment contains the value provided.
Retention Policy	• is	Filters results based on the retention policy
	10	chosen from the drop-down list.
		Messages must meet all the other filter criteria <i>and</i> be a part of the selected Retention Policy.

3.2. Search Instant Message Archive Using the Advanced Query Language

Reviewers can use the Advanced Query Language search mode to submit complex instant message searches, such as those that:

- Use specific terms, such as all instant messages that include the phrase Quarterly Report.
- Use comparisons, such as all instant messages sent between December 25 and August 1st, or all messages greater than 4 KB but less than 8 KB.
- Use the Boolean operators AND, OR, and NOT to refine searches, such as instant messages originated by bob@genericorp.com AND that are smaller than 4 KB.
- Search for terms in proximity to other terms, such as terms that appear within four words of each other in a specified order.
- Edit searches generated in the Query Builder tab.

3.2.1. Build an Advanced Query Language Query

NOTE Limitations When Formulating Long Queries

In Internet Explorer, the URL length limit of 2083 characters can cause errors when executing a long discovery query. If a query URL exceeds the character limit, Internet Explorer will display an error message and the query will not execute.

This scenario is most likely when using the Query Builder options to build a complex query containing many search parameters. Simple searches are not likely to trigger this issue.

One workaround is to use a web browser with longer URL character limits, such as Mozilla Firefox. Another workaround is to narrow the search to fewer parameters.

Task 3.4. Build a query using Advanced Query Language

1) Click the *Advanced Query Language* tab. The Advanced Query Language search pane appears.

Instant Messages 🔻	IM Reviewer Group ▼ E	inglish 🔻 F	Received Date, Most F	lecent First 🔻
Query Builder	Advanced Query Language	Saved Searches		
Advanced Query Lar	nguage			

2) If you are part of more than one Reviewer Group, select the Reviewer Group scope from the *Reviewer Group* drop-down list.



The label of the drop-down is the currently selected Reviewer Group. Only messages that match the search criteria *and* are within the scope of the selected Review Group will be displayed.

3) If desired, select a search language from the **Search Language** drop-down menu. The label of the drop-down is the currently selected language.

stant Messages 🔻	IM Reviewer Group	inglish	Received Date, Most Recent First 🔻
Query Builder	Advanced Query Language	Saved Searches	
Query Builder	Advanced Query Language	Saved Searches	

Choosing a search language limits the search to instant messages identified as belonging to that language, plus all the language-unidentified messages. It also changes the stop word behavior (see <u>"Stop Words" on page 44</u>). To search *all* messages in the archive, select Any.

Current language choices include: Any, Arabic, Chinese (simplified & traditional), Dutch, English, French, German, Hebrew, Japanese, Portuguese, Russian, Spanish, and Swedish.

The default search language is English.

4) Type your Query Language search string into the Advanced Query Language text field.

Query Builder	Advanced Query Language	Saved Searches		
Advanced Query Lan	nguage			

- Use the syntax, fields, and options described in <u>Table 3-2, "Query Language</u> <u>Fields" on page 60</u>.
- The **Advanced Query Language** field does *not* implement <u>Stemming</u>. You must use the wildcard character (*) to expand Query Language searches beyond the search strings you enter.

For example, to search for all the terms (project, projected, projecting, projector, or projects) in the message subject, add subject: "project*" to your query.

- If an unquoted string is entered into the Advanced Query Language box without other syntax, the search engine implements a "google style" search, instead of giving a syntax error.

This means the result set includes documents which match all terms as well as documents which match some of the terms, ranked by relevance.

Putting double quotes around the query causes it to be a phrase match rather than a "google style" match.

- See the examples listed under <u>2.3.2., "Query Language Examples" on page 39</u> for additional guidance.
- 5) Execute the search by either clicking the Search button or hit the ENTER key.
- 6) To save the query for future execution, click the *Save* button. See <u>"Saved</u> <u>Searches" on page 65</u> for more information.
- 7) The results of your search are displayed in the table below the search boxes.

When your results list contains all the messages you need, refer to the following sections for additional actions you can perform on the messages returned by the search:

- To create a Retention Hold, see <u>"Retention Holds" on page 78</u>.
- To create a Discovery Archive, see <u>"Email and Instant Message Archives" on page 82</u>.

For more information on using query language, see <u>"Query Language Examples" on</u> page 39.

Field	Description	Туре	Example
attachedfiles	 A filename (If filename contains spaces, enclose in quotes) 	String	 attachedfiles: picture.jpg
	 Filenames joined by Boolean expressions (If filename contains spaces, enclose in quotes) 		 attachedfiles: picture.jpg or "second picture.jpg"
	 To match an ordered list of attachments use a semicolon separated list of all filenames, enclosed in quotes (No need to add extra quotes to filenames with spaces) 		 attachedfiles: "report.xls; report.doc; Quarterly Report.ppt"
content	The content of the IM conversation.	String	content:"Q4 results"

Table 3-2	Query Language	Fields
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Table 3-2	Query	Language	Fields
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Field	Description	Туре	Example
filename	The file name of a document or message.	String	<pre>filename:report.xl s and</pre>
	• When searching for an attachment, also set isattachment:1 for the attachment file name.		isattachment:1
	 To search for a message, set isattachment:0. 		
isattachment	An indicator of whether the document is an attachment or a message.	Integer	<pre>filename:report.xl s and</pre>
	• To indicate that the document is an attachment, set isattachment:1.		isattachment:1
	• To indicate that the document is not an attachment, set isattachment:0.		
mailfrom	The originator of the IM conversation.	String	<pre>mailfrom:bob@ genericorp.com</pre>
mailsubject	The subject of the IM conversation.If value contains spaces, enclose in double-quotes.	String	<pre>mailsubject: "Quarterly Report"</pre>
mailto	The participants in the IM conversation.	String	<pre>mailto: bob@genericorp.com</pre>
participants	The participants in the IM conversation.	String	participants: bob@genericorp.com

Field	Description	Туре	Example
receiveddate	The date the IM conversation was started.	Date	To find all messages started on or after February 3, 2008,
	To search by date only, use the form YYYY-MM-DD.		USE receiveddate:range (2008-02-03, max).
	To search by date and time, use the form YYYY-MM-DDThh:mm:ssZ.		To find all messages started before February 3, 2008, use receiveddate:range
	 T is a required constant that identifies the following characters as times. 		(min, 2008-02-03)
	 z is an optional UTC time zone identifier. UTC is default. 		
	 Use 24-hour clock when specifying time. 		
	Use min and/or max to specify earliest/latest dates.		
	Note: By default, receivedate is stored as UTC (GMT) time. To search using your local time zone value, use the TIME value to manually compensate for the number of hours offset from UTC. For example: T05:00:00 is midnight in the US- Central time zone.		
recipients	The participants in the IM conservation.	String	(recipients:bob@ genericorp.com OR recipients:sue@ genericorp.com)
senders	The originators of the instant message conversation.	String	(senders:bob@ genericorp.com OR senders:sue@ genericorp.com)

Table 3-2Query Language Fields

Table 3-2 Qu	iery Languag	e Fields
--------------	--------------	----------

Field	Description	Туре	Example
size	The size of document (message or attachment) in bytes.	Integer	To find all messages (messages only, without
	Express sizes in bytes. For example, 4 KB as 4096.	s in bytes. For example, 6.	
	Use < or > to specify sizes greater or less than a certain size.		(4096, 8192)
totalsize	The size of the message, in bytes, including all attachments.	Integer To find all messages with a total size (messages and attachments) of at least 8K or greater, use totalsize:range (819 max)	To find all messages with a total size (messages and
	Express sizes in bytes. For example, 4 KB as 4096.		attachments) of at least 8KB or greater, use totalsize:range (8192, max)
	Or use < or > to specify sizes greater or less than a certain size.		

3.3. IM Search Features

When searching Instant Messages, quoted strings, stemming and stop words work just as they do when searching emails. See <u>"Search Features" on page 42</u> for more information.

4. Saved Searches, Message Tags, Holds and Archives

After searching the EMS Archive using the instructions in <u>Chapter 2., "Email Archive</u> <u>Searches"</u> and <u>Chapter 3., "Instant Message Archive Searches"</u>, the search query can be saved. Additionally, the returned messages can Tagged for easier retrieval and identification. And the returned messages can be bundled into Retention Holds or Discovery/Recovery Archives.

- Saved Searches:
 - Email and Instant Messages search queries can be saved for later use.
 - Both Query Builder and Advanced Query Language searches can be saved.
 - Searches are saved on a per user basis.
- Tagged Messages:
 - Tags are created within a Retention Policy scope and can be quickly added and removed from messages.
 - Allows for easy identification and search of tagged messages.
 - Tags can be used to created Retention Holds and Discovery or Recovery Archives.
 - -
- Retention Hold:
 - Retains messages (prevents messages from being purged) regardless of any other Retention Policies that may apply to the individual messages under the hold, until the hold is released.
 - Optionally, new messages that match a Retention Hold's search criteria can be added to an existing hold.
 - Retention Holds can only be released (deleted) by an EMS Archive administrator.
 - When a Retention Hold is released, messages are then available to be retained or purged based on each individual message's applicable Retention Policies.
- Discovery Archives:
 - Collections of email messages or instant messages that are packaged by EMS Archive for later use.
 - Retains messages (prevents messages from being purged) regardless of any other retention policies that may apply to the individual messages contained within the archive, until the archive is deleted.
- Archive contents are static. Unlike Retention Holds, new messages are not added to archives.
- If your organization offers the Export Manager feature, you can export a Discovery Archive to a PST or EML file and deliver it to an authorized user for analysis.
- Discovery Archive contents can be imported into a single designated Exchange mailbox by EMS Administrators where authorized users can analyze them.
- Recovery Archives:
 - Recovery Archives can be created by Reviewers who also have EMS Administrator privileges.
 - Recovery archives can be created only for email messages.
 - Retains email messages (prevents messages from being purged) regardless of any other retention policies that may apply to the individual messages contained within the archive, until the archive is deleted.
 - Archive contents are static. Unlike Retention Holds, new email messages are not added to archives.
 - Recovery Archive's email contents can be imported into designated Exchange mailboxes, using RecoveryManager.

4.1. Saved Searches

Reviewers have the option to save search queries for later re-use. Both *Query Builder* and *Advanced Query Language* searches can be saved.

Saving searches saves time in cases where searches need to be performed multiple times. Or a search template could be saved and edited with specific additional fields when it is used at a later date.

Task 4.1. Save a search query

- 1) Ensure the search query is complete and returns the expected. messages.
- 2) Click the Saved Searches tab.

Query Builder	Advanced Query Languag	Saved Searches

3) Review the names of the existing saved searches.



- For each Reviewer, both Query Builder and Advanced Query Language saved searches appear in one list for email saved searches and a separate list for instant message saved searches.
- If your organization has multiple Reviewers, each Reviewer has their own list of saved searches. One Reviewer can *not* access another Reviewer's Saved Searches.
- Saving a new search using an existing name **over-writes** the existing saved search.
- Saved search names have a maximum of 64 characters.

Decide on a name for the saved search.

- 4) Return to the appropriate Query Builder or Advanced Query Language tab.
- 5) Click the Save button.

	Se	earch 🥤	Save	Reset

6) In the pop-up, enter the name.

Enter a name for this saved search.		
If the name is the same as a previously s	saved search, it will repl	ace the existing search.
	ок	Cancel

7) Click the OK button.

Task 4.2. Execute a saved a search

1) If your organization has Expanded Archives Services, the *Content Type* dropdown appears. If the correct content type isn't selected, choose it from the dropdown. This is necessary because email and instant message saved searches are saved in different lists.

earch Personal Mail	Search Company Archives Sea	arch All Failed Mail
Email 🔻	New reviewer Group *	Entire Message
Email		
Instant Messages	Advanced Query Language	Saved Search
Keywords (All)	Sender Recip	ients Su

2) Click the Saved Searches tab.

Query Builder	Advanced Query Language	Saved Searches	
---------------	-------------------------	----------------	--

3) Click on the name of the saved search to be executed.



The *Query Builder* or *Advanced Query Language* page that was used when saving the search will appear, with all the search fields filled in the with saved values.

- 4) Optional: Edit the query values.
- 5) Execute the search by either clicking the **Search** button or hit the ENTER key.

Task 4.3. Delete a saved search

- If your organization has Expanded Archives Services, the *Content Type* dropdown appears. If the correct content type isn't selected, choose it from the dropdown.
- 2) Click the Saved Searches tab.

Query Builder	Advanced Query Languag	Saved Searches
	· · · · · · · · · · · · · · · · · · ·	

3) Find the name in the list of saved searches.



4) Click the × button in the row of the saved search that is to be deleted.
 A confirmation dialog appears, click *OK* to delete the saved search.

4.2. Message Tagging

To assist Archive Reviewers, individual messages can be tagged as an excellent way to mark specific messages for quick retrieval.

		Search	Save	Reset
116 results	Tag	Create Archive	Create Hold	Failure Report
admin@dev.com To: admin@dev.com The lab082 Email Mana Test Tag #1 Another Test	gement Servi	ces has been de-activ	rated	December 5, 2014
Rosalyn Hargrove To: lam4test@dev.com Sent After Upgrade Test Tag #1 Another Te	n est Tag			July 3, 201

Once messages have been tagged, that Tag can be entered as a search term (see <u>"Search by Tagged Messages" on page 27</u>), and the resulting sub-set of messages can be used to:

- Create a Discovery Archive that can be exported into PST or EML file using Export Manager. See <u>"Create Recovery or Discovery Archive from Tagged messages" on</u> page 77
- Create a Retention Hold that prevents the sub-set of messages from being deleted during the normal Archive process that purges old messages. See <u>"Create</u> <u>Retention Hold from Tagged messages" on page 77</u>

• If you have permission, create a Recovery Archive that can be used to restore those tagged messages back to a mailbox(s) on an Exchange server. See <u>"Create Recovery or Discovery Archive from Tagged messages" on page 77</u>

An individual message can be tagged with multiple Tags, by multiple Reviewers.

Message Tags are retained until they are removed by the Reviewer. See <u>"Remove Tags</u> from messages" on page 75

Tags are created within a Reviewer Group and affect only messages within the scope of that Reviewer Group. See <u>"Managing Tags" on page 69</u> for more information.

4.2.1. Managing Tags

Tags can be managed in the Manage Tags window. You can:

- Create Tags. See <u>"Create a Tag" on page 70</u>
- Edit the name of a Tag. See "Edit a Tag's Name" on page 71
- Delete tags. See <u>"Delete a Tag" on page 72</u>

Deleting a Tag will not affect any message associated with that Tag. It only disassociates the deleted Tag from all messages and removes it from the list of available Tags.

Deleting a Tag will also not affect any Retention Holds or Recovery/Discovery Archives based on that Tag. Since Holds and Archives are based on a list of messages created at the time the query is initially run, the Holds and Archives remain unchanged. To delete unneeded Holds or Archives, contact your EMS Archive Administrator.

Each Reviewer can manage the Tags associated with the Reviewer Groups the individual Reviewer is a member of. They cannot manage Tags belonging to other Reviewer Groups.

Task 4.4. Create a Tag

1) Click the *Manage Tags* link.

arch Personal Mail Ifigure Archive	Search Company Archives	Search All Failed Mail	View Recovery Archives	View Retention Holds Manage Tag
Email 🔹	New reviewer Group	Entire Message	English	Received Date, Most Recent First 🔻
Query Builder	Advanced Query Lang	Jage Saved Search	nes	

The Manage Tags window is displayed.

Manage Tags				
Tag management page let outton under a reviewer g that changes applied will a	s you create a new tag, roup or simply click on th ffect all associated mes	edit or delete them. To create ne tag name to modify it. Click sages.	a new tag, click the 'Create Tag' the x to delete a tag. Please note	
Search Tags				
ync Reviewer Group				
Lync Tag #1				×
Create Tag				
New reviewer Group				
Administrator's Tagged	Emails			×
Create Tag				
Third reviewer group				

- 2) Scroll down the page to locate the Reviewer Group the Tag is to be created under.
- 3) Click the *Create Tag* button under that Review Group.
- 4) A Create Tag filed appears.

5)

	Create Tag	Cancel	
As you begin button.	to type the Tag's name, the	e Cancel butt	on changes to a Save
	A	Save	

6) When you have typed the new Tag's name, click the *Save* button.

To cancel the creation of this Tag, delete the name and click the *Cancel* button.

7) Tags can also be created when adding Tags to messages. See <u>"Apply Tags to</u> messages" on page 73.

Task 4.5. Edit a Tag's Name

1) Click the *Manage Tags* link.

earch Personal Mail onfigure Archive	Search Company Archives	Search All Failed Mail	View Recovery Archives	View Retention Holde Manage Tags
Email •	New reviewer Group	 Entire Message 	English	Received Date, Most Recent First 🔻
Query Builder	Advanced Query Lang	uage Saved Search	hes	

The Manage Tags window is displayed.

Manage Tags		
Tag management page let button under a reviewer gi that changes applied will a	you create a new tag, edit or delete them. To create a oup or simply click on the tag name to modify it. Click th ffect all associated messages.	new tag, click the 'Create Tag' e x to delete a tag. Please note
Search Tags		
Lync Reviewer Group		
Lync Tag #1		:
Create Tag		
New reviewer Group		
Administrator's Tagged	Emails	
Create Tag		
Third reviewer group		
No tag created yet	Create Tag	

2) Scroll down the page to locate the Reviewer Group the and then within that Reviewer Group, locate the Tag to be edited.

If there are many Tags, use the Search Tags field. Enter the name of the Tag to be edited. As you type, the list of Tags will be refined to contain only Tags that contain the entered value somewhere in the Tag name.

3) Click on the name of the Tag that is to be renamed.

The name turns into an editable field.

New	reviewer Group	
-----	----------------	--

Administrator's Tagged Emails	Cancel
-------------------------------	--------

4) As you begin to type the Tag's name, the *Cancel* button changes to a *Save* button.

A Save

5) When you have typed the new Tag's name, click the Save button.

To cancel the renaming of this Tag, delete the whole name and click the *Cancel* button.

Task 4.6. Delete a Tag

1) Click the *Manage Tags* link.

Search Personal Mail Configure Archive	Search Company Archives	Search All Failed Mail	View Recovery Archives	s View Retention Holds Manage Tags
Email	New reviewer Group	Entire Message	▼ English ▼	Received Date, Most Recent First *
Query Builder	Advanced Query Lang	uage Saved Searc	hes	

The Manage Tags window is displayed.

Manage Tags			
Tag management page le button under a reviewer g that changes applied will a	s you create a new tag, edit c oup or simply click on the tag ffect all associated messages	or delete them. To create a new tag, g name to modify it. Click the x to de S.	click the 'Create Tag' lete a tag. Please note
Search Tags			
Lync Reviewer Group			
Lync Tag #1			×
Create Tag			
New reviewer Group			
Administrator's Taggeo	Emails		×
Create Tag			
Third reviewer group			
No tag created yet.	Create Tag		

2) Scroll down the page to locate the Reviewer Group the and then within that Reviewer Group, locate the Tag to be deleted.

If there are many Tags, use the Search Tags field. Enter the name of the Tag to be deleted. As you type, the list of Tags will be refined to contain only Tags that contain the entered value somewhere in the Tag name.

3) Click the X that is on the line of the Tag that is to be deleted.

New reviewer Group	
Administrator's Tagged Emails	(

4) A confirmation dialog will appear. Click the OK button to delete this Tag.

If there are Tags in other Reviewer Groups that have the same name, deleting this Tag will not affect those Tags. Each Reviewer Group has Tags independent from the other Reviewer Groups.

4.2.2. Using Tags

The following actions can be taken when tagging emails:

- "Apply Tags to messages" on page 73
- <u>"Search for Tagged Messages" on page 27</u>
- "Remove Tags from messages" on page 75
- <u>"Create Recovery or Discovery Archive from Tagged messages" on page 77</u>
- <u>"Create Retention Hold from Tagged messages" on page 77</u>

Each Reviewer can see, apply, and edit only the Tags associated with the Reviewer Groups the individual Reviewer is a member of. They cannot use Tags belonging to other Reviewer Groups.

Task 4.7. Apply Tags to messages

- When Tags are created, they are defined within the context of a specific Reviewer Group. So, when searching for message to be tagged, ensure the Reviewer Group scope is properly set by first clicking the *Reset* button to clear all the search fields.
- 2) Click on the **Reviewer Scope** drop-down and select the Reviewer Group that contains the messages that are being search for.

st Reviewer Group	Entire Message 🔹	English	Receiver	ved Date, Most Rece	ent First 🕈

3) Execute your search to display the results that contains the message(s) you want to tag.

4) Scroll down in the results to find the message(s) you want to tag, and check the check-box for the email. You can check multiple messages at once if you want.

		Search	Save	Reset
116 results	Tag	Create Archive	Create Hold	Failure Report
admin@ dev.com To: admin@dev.co The mail has been of Test Tag #1	om de-activated			December 5, 2014

The message's entry displays the Tag(s) that are already associated with it.

5) When an message's tagging box is checked, the number of checked messages is displayed, the *Tag* button is highlighted and a *Cancel Selection* link is displayed.

116 results, 1 selected Cancel Selection	Tag	Create Archive	Create Hold	Failu
🛛 🖂 admin@dev.com			Decer	mber 5, 20

To un-check all the emails checked, click the *Cancel Selection* button.

6) After all messages have been selected, click the *Tag* button.

The Tag Selected Results window appears.

Tag Selected Results			×
Filter Tags		Create Tag	
 Another Test Tag Tag for Test Reviewer Group user #24 Test Tag #1 			
	Apply	Cancel	

7) If you have defined many tags for this Reviewer Group, you can search for a specific Tag using the **Filter Tags** field. Results are returned as you type the value.

To clear the search, delete the value in the search field.

8) To create a new Tag, click the Create Tag button.



Enter the name of the Tag, and click **OK**. The new Tag is added to the list of Tags.

9) Depending on the messages selected, the Tags listed can have several values.

Another	
Tag for 1	
Test Tag	

- When a box is checked:, 🗹 , it means *all* of the selected messages have already been assigned to this Tag.
- When a box is filled in, <a>[III], it means that some of the selected messages have already been assigned to this Tag.
- When a box is empty, 🔲 , it means that *none* of the selected messages have been assigned to this Tag.
- 10) To assign at Tag to the selected message(s), check the box beside the Tag. More than one Tag can be checked and the Tags will be assigned to all selected messages.
- 11) Click the *Apply* button to assign the Tags.

Task 4.8. Remove Tags from messages

- 1) When Tags are created, they are defined within the context of a specific Reviewer Group. So, when searching for messages to remove the Tags from, ensure the Reviewer Group scope is properly set by first clicking the *Reset* button to clear all the search fields.
- 2) Click on the **Reviewer Scope** drop-down and select the Reviewer Group that contains the emails that are being search for.



3) Execute your search to display the results that contains the message(s) you want to remove the Tag(s) from.

4) Scroll down in the results to find the message(s) you want to remove the Tag(s) from, and check the box. You can check multiple messages at once if you want.

		Search	Save	Reset
116 results	Tag	Create Archive	Create Hold	Failure Report
admin@ dev.com To: admin@ dev.co The mail has been of Test Tag #1	om de-activated			December 5, 2014

The message's entry displays the Tag(s) that are associated with it.

5) When an message's Tagging box is checked, the number of checked messages is displayed, the *Tag* button is highlighted and a *Cancel Selection* button is displayed.

116 results, 1 selected Cancel Selection	Tag	Create Archive	Create Hold	Failur
admin@dev.com			Dece	mber 5, 20
To: admin@dev.com				

To un-check all the messages checked, click the Cancel Selection button.

6) After all desired messages have been checked, click the *Tag* button.

The Tag Selected Results window appears.

Tag Selected Results			×
Filter Tags		Create Tag	
 Another Test Tag Tag for Test Reviewer Group user #24 Test Tag #1 			
	Apply	Cancel	

7) If you have defined many Tags for this Reviewer Group, you can search for a specific Tag using the **Filter Tags** field. Results are returned as you type the value.

To clear the search, delete the value in the search field.

- 8) Depending on the messages selected, the Tags listed can have several values.
 - Another
 Tag for 1
 Test Tag
 - When a box is checked, I it means all of the selected messages have already been assigned to this Tag.
 - When a box is filled in, , it means that some of the selected messages have already been assigned to this Tag.
 - When a box is empty, 🛄 , it means that *none* of the selected messages have been assigned to this Tag.
- 9) To remove a Tag from the selected email(s), un-check the box beside the Tag so the empty box, a si displayed for that Tag. More than one Tag can be un-checked and the messages will be removed from those Tags.
- 10) Click the Apply button to remove the Tag(s) from the message(s).

Task 4.9. Create Recovery or Discovery Archive from Tagged messages

- Using the steps in <u>"Search by Tagged Messages" on page 27</u>, search for all messages assigned to a specific Tag.
- 2) Click the Create Archive button.

		Search	Save	Reset
116 results	Tag	Create Archive	Create Hold	Failure Report
🔲 🔽 admin@lab092.m1dav	com			December 5, 2014

The Create Archive window will be displayed.

- 3) Enter a name for this new archive.
- 4) By default, a Discovery Archive will be created. This type of archive can be exported to a PST or EML file using Export Manager.

If you have the permission, you will be asked to select the type of archive to create, Discover Archive or Recovery Archive. A Recovery Archive can be recovered back into one or more Exchange mailboxes.

5) Click the Create Archive button.

This Archive can be used just like any other archive. For more information, see <u>"Email and Instant Message Archives" on page 82</u>.

Task 4.10. Create Retention Hold from Tagged messages

 Using the steps in <u>"Search by Tagged Messages" on page 27</u>, search for all messages assigned to a specific Tag. 2) Click the Create Hold button.

		Search	Save	Reset
116 results	Tag	Create Archive	Create Hold	Failure Report
🔲 🔽 admin@lab002.m1da	(com			December 5, 2014

The Create Retention Hold window will be displayed.

- 3) Enter a name for this new hold.
- Check the Update Hold Automatically box if you want to include future messages that are tagged with this Tag.

If you do not check this box, only the messages tagged at the time the Hold is created will be included in the Retention Hold.

5) Click the Create Retention Hold button.

This Retention Hold can be used just like any other Hold. For more information, see <u>"Retention Holds" on page 78</u>.

4.3. Retention Holds

A *Retention Hold* generates a set of messages that are to be retained in the Archive (prevents messages from being purged) regardless of any other Retention Policies that may apply to the individual messages under the hold, until the Retention Hold is deleted by an EMS Archive Administrator. When a Retention Hold is released (deleted), messages are then available to be retained or purged based on each individual message's applicable Retention Policies.

A Retention Hold can be set up so new messages matching the hold criteria can be added to the hold. Additionally, the hold can be exported to an archive.

When a Retention Hold is created, the entire message (the body and all attachments) are held, not just the individual portion of the email (body or attachment) that matches the query.

NOTE Maximum Message Limits in Query-Based Retention Holds

EMS Archive limits the maximum number of messages in Retention Holds to prevent improperly configured queries from monopolizing system resources. Requests to produce an over-sized query will fail, and the reason for the failure will appear in the audit log.

To create extremely large holds, create multiple holds.

Task 4.11. Create a Retention Hold

- 1) Use the search instructions under <u>"Search Email Archive Using the Query Builder"</u> on page 16 or <u>"Search Instant Message Archive Using the Query Builder" on</u> page 48 to create a query that returns the messages and/or attachments that need to be retained.
- 2) When the search results list displays the collection of messages that need to be retained, click the *Create Retention Hold* button.

Sender	Subject	Receiv	red Date	Other Fields ▼
		Search	Save	Reset
51 results	Tag	Create Archive	Create Hold	Failure Report
Administrator			V	Vednesday at 11:14 PM

3) In the **Retention Hold Name** field, type a unique name that identifies the reason to hold these messages.

Create Retention Hold		;
Prevent these search results from being purged by placing a r	etention hold on them.	
Retention Hold Name:		
A retention hold will be created, which will prevent these result	s from being purged indefinitely.	
Update Hold Automatically		
Automatically retain new messages that match retention hold of	query	
Estimated Statistics		
Messages are composed of one or more <i>documents</i> such that and one additional document for each attachment. Search res rather than messages. The number of messages matching you of results shown.	each message has one document for the bod ults shown in the result list represent documen ur query, therefore, is likely less than the numb	y, ts er

4) EMS Archive offers the option to evaluate new incoming messages and determine if they match any Retention Hold queries. If you want new matching messages added to the scope of this Retention Hold, check the Update Hold Automatically checkbox. If this checkbox is not checked, the scope of this hold is static and applies only to messages that match the query at the time the hold is created.

For example:

Create a Retention Hold based on a query that matches all messages involving the user test@sample.com. If you wish to have all new incoming messages involving this user also included in the hold, then check this field. If you don't need to hold new incoming messages involving this user, un-check this field.

5) Click Create Retention Hold.

6) A pop-up appears to say that the creation of the hold has begun as a background task. Click *OK*.

Depending on the number of messages selected for this hold, it can take up to 24 hours for all messages to be assigned to the new hold.

Task 4.12. View list of recently created Retention Holds

1) To view a list of all of your Retention Holds created in the last 24-hours, or in progress, click the *View Retention Holds* navigation link.

Search Personal Mail Manage Tags Config	Search Company Archives ure Archive	Search All Failed Mail	View Recovery Archives	View Retention Holds
Description	Type(Email/IM)	Created By	Status	
test	email	Administrator	✓ Completed at 4:49:34 PM on 1-19-2015.	

If you do *not* have EMS Administrator privileges, your list of recent Retention Holds will contain holds that you created and all holds created by all Reviewers in the Reviewer Groups for which you are a member.

If you *do* have EMS Administrator privileges, your list of recent Retention Holds contains all Retention Holds created by all users.

Task 4.13. Create an Archive from a Retention Hold

1) If your organization has Expanded Archives Services, choose the *Content Type* from the drop-down.

Search Personal Mail S Configure Archive	Search Company Archives Sea	arch All Failed Mail
Email	New reviewer Group 🔻	Entire Message
Email Instant Messages	Advanced Query Language	Saved Search
Keywords (All)	Sender Recip	ients Su

- 2) Click Query Builder tab.
- 3) If you are part of more than one Reviewer Group, select the Reviewer Group scope from the *Reviewer Scope* drop-down list.

Search Personal Mail	Search Company Archives View R	Recovery Archives Vie	w Retention Holds Configure	Archive
New reviewer Group	Entire Message 🔹 Englis	ih ▼		
Query Builder	Advanced Query Language	Saved Searches		
Keywords (All)	Sender Recipients	Subject	Received Date	Other Fields ▼

The label of the drop-down is the currently selected Reviewer Group. Only messages that match the Retention Policy *and* are within the scope of the selected Review Group will be displayed.

4) Click the Other Fields drop-down and select Retention Policy.



5) Select the desired **Retention Hold** from the drop-down that lists the available holds.

Query Builder	Advanced Query Lan	guage	Saved Searches	3		
	Retention Policy	is		New Retention Hold	•	×
Keywords (All)	Sender	ocinionts	Subject	Received Date	Other Fields	

6) Click the Search button.

This query returns all messages and attachments that are being held within the selected Retention Hold.

If the query doesn't return the expected results:

- If the hold has not completely executed, then this search will return all the messages that are within the scope of the active Reviewer Group, because an incomplete hold doesn't restrict the query. Check the status of the Retention Hold (Task 4.12. View list of recently created Retention Holds on page 80).
- If the hold was created with the *Update Hold Automatically* option enabled, the hold's contents may change if it is accessed on different dates, as new archive messages are added to the hold based on the hold's query criteria.
- If the hold isn't automatically updated, the hold's filter results are from the date the hold was created, not the results of the hold's query being executed now. Your EMS Administrator can tell you when the hold was created.
- 7) Follow the steps in <u>Task 4.14. Create a Discovery Archive on page 83</u> to create an archive of these results.

4.3.1. Remove Retention Holds

When all tasks related to a Retention Hold are complete and the archived messages are no longer required to be excluded from applicable Retention Policy purging, the Retention Hold can be removed.

At this time, Archive Reviewers (with the authority to do so) should contact their EMS Archive Administrator, with the name of the Retention Hold, and ask the Administrator to delete the Retention Hold. This will return all the hold's messages to the control of their respective Retention Policies.

4.4. Email and Instant Message Archives

Archives are collections of messages (or messages and attachments) that are packaged by EMS Archive for later use.

A Discovery Archive can contain either email messages or instant messages, and its contents can be imported into a single designated mailbox, where an authorized user can analyze them.

A Recovery Archive can be created only by EMS Administrators, it can contain only email messages, and its contents can be imported into multiple designated mailboxes.

If your organization offers the Export Manager feature, you can export a Discovery Archive to a PST file and deliver it over the network to an authorized user for analysis.

NOTE Maximum Message Limits in Discovery and Recovery Archives

EMS Archive now limits the maximum number of messages in Discovery and Recovery Archives to prevent improperly configured queries from monopolizing system resources. Requests to produce an over-sized query will fail, and the reason for the failure will appear in the audit log.

To export extremely large numbers of messages for archival, create multiple archives.

4.4.1. Create Discovery Archives

Discovery Archives:

- Can be created by any EMS Archive Reviewer
- Can contain either email messages or instant messages.
- Stores the list of message IDs that match the query, so the exact set of matched messages will be returned when the archive is exported or recovered.
- Can be exported into a PST or EML file using the *Export Manager* tool.
- Can be imported into to a *single* mailbox by an EMS Administrator.

Task 4.14. Create a Discovery Archive

 Use the search instructions under <u>"Search Email Archive Using the Query Builder"</u> on page 16 or <u>"Search Instant Message Archive Using the Query Builder"</u> on page 48 to create a query that returns the messages and/or attachments that need to be retained. Discovery Archives can also be created using Advanced Query Language queries.



2) When you complete the search, click the Create Archive button.

3) The Create Discovery Archive page appears.

Export these	e search results to a	a discovery a	archive.				ſ
Discover	y Archive Name:						ן
A discovery	archive will be crea	ated, which c	an be expo	ted into a sir	igle mailbox.		
Use the Exp purposes.	ort Manager <mark>t</mark> o exp	ort the conte	ents of the a	irchive as a i	ST file for e-	discovery	
Estimated	Statistics						
Messages a	re composed of on	e or more do	ocuments si	ich that each	message ha	as one document	
for the body	, and one additiona	al document	for each att	achment. Sea	arch results	shown in the resu	ilt
therefore, is	likely less than the	r than messa e number of r	results show	umper of mes	ssages matc	ning your query,	
	Contraction and the second s						

4) In the Discovery Archive Name field, type a unique name for the archive.

TIP **Best Practices for Naming Discovery Archives**

If you are searching archives for discovery purposes, you may need to create many archives for a given project. To make it easy to find and review archive contents later, use a consistent, descriptive naming convention for the archive, such as Date_ReviewerName_CaseNumber_ArchiveNumber. An example is shown below.

20061027_Smith_345000_1

5) Click the Create Discovery Archive button. The Archive is created and added to the scheduling list.

6) To view archives created in the last 24-hours, or in progress, click the *View Recovery Archives* navigation link at the top of the web page.

Search Personal Mail Manage Tags Config	Search Company Archives are Archive	Search All Failed Mail	View Recovery Archives	View Retention Holds
Description	Type(Email/IM)	Created By	Status	
Disc 2015-01-20for Sarah to look over	email	Administrator	📓 Not started yet.	

7) If your organization uses Export Manager, see the *Export Manager Guide* for instructions on exporting a Discovery Archive to a PST or EML file.

4.4.2. Create Recovery Archive

If a Reviewer has EMS Administrator privileges, the Reviewer can also create Recovery Archives for email search results.

Recovery Archives:

- Can contain only email messages. Recovery archives *cannot* be created for instant messages.
- Create an archive that can be recovered into *multiple* mailboxes using the *Recovery Manager* tool.
- Cannot be exported by Export Manager.
- Stores the query itself, not message IDs. This means that when the archive is recovered by Recovery Manager, the query is run again and the messages that match the query at that later time will be recovered into the mailboxes.

Task 4.15. Create a Recovery Archive

- Use the search instructions under <u>"Search Email Archive Using the Query Builder"</u> on page 16 or <u>"Search Company Archive Using the Advanced Query Language"</u> on page 32 to create a query that returns the messages and/or attachments that need to be retained.
- 2) When you complete the search, click the *Create Archive* button.

	Sender	Recipients	Subject	Receiv	ed Date	Other Fields V
				Search	Save	Reset
		_	- 6			
5	1 results		Tag 🤇	Create Archive	Create Hold	Failure Report
] 🖂 Administrator				1	Wednesday at 11:14 PM
	To: Administr	ator@dev.com				

3) The Create Archive page appears.

Export these search results to an archive.	^
Archive Name:	
Archive Type	
Discovery Archive	
Select this option to create a discovery archive, which can be exported into a single mailbox.	ш
Use the <i>Export Manager</i> to export the contents of the archive as a PST file for e-discovery purposes.	
Recovery Archive	
Select this option to create a recovery archive, which can be exported into multiple mailboxes.	
Jse the Recovery Manager to restore the contents of the archive into individual users' mailboxe	s.
Estimated Statistics	
Vessages are composed of one or more <i>documents</i> such that each message has one documen for the body, and one additional document for each attachment. Search results shown in the res ist represent documents rather than messages. The number of messages matching your query, herefore, is likely less than the number of results shown.	t ult
Create Archive Cancel	

4) In the Archive Name field, type a unique name for the archive.

TIP Best Practices for Naming Recovery Archives

If you are searching archives for discovery purposes, you may need to create many archives for a given project. To make it easy to find and review archive contents later, use a consistent, descriptive naming convention for the archive, such as Date_ReviewerName_CaseNumber_ArchiveNumber. An example is shown below.

20061027_Smith_345000_1

- 5) Select the *Recovery Archive* radio button.
- 6) Click Create Archive. The Archive is created and added to the scheduling list.
- 7) To view archives created in the last 24-hours, or in progress, click the *View Recovery Archives* navigation link at the top of the web page.

Search Personal Mail Manage Tags Configur	Search Company Archives e Archive	Search All Failed Mail	View Recovery Archives	View Retention Holds
Description		Created By		
Rec2015-01-20for Sarah's inbox	email	Administrator	✓ Completed at 3:35:11 PM on 1-20-2015.	

8) After an archive is generated, the RecoveryManager component of Email Management Services can be used to import the email messages into designated Exchange mailboxes.

4.4.3. Delete Recovery and Discovery Archives

When all tasks related to a Discovery or Recovery Archive are complete and the archived messages are no longer required to be excluded from applicable Retention Policy purging, the Recovery or Discovery Archive can be deleted and its messages can be allowed to be purged per their applicable Retention Policies.

At this time, Reviewers (with the authority to do so) should contact their EMS Administrator, with the name of the Archive, and ask the Administrator to delete the Archive. This will return all the archive's messages to the control of their respective Retention Policies.

5. Failed Message Tracking Feature

5.1. Introduction

Failed Message Tracking is an optional feature that displays email messages that have failed to be stored in the archive or fully indexed into the database.

When an email message arrives, EMS normally parses the message for metadata and other information, then stores the message in the archive and sends the metadata to be indexed by the server.

If the message cannot be stored correctly the first time, several more attempts are made to store the message into its archives. If, after repeat attempts, the message cannot be stored into the archives, its metadata is entered into the Failed Message database.

After a message stores correctly, it is sent to be indexed. Again, several attempts are made to index each message. If a message cannot be indexed at all, or can only be partially indexed, its metadata is also placed into the Failed Message database.

Archive Reviewers can access the feature from both the EMS home page, and from the EMS Archive menu.

Because failed messages are not contained in normal archive searches, the Failed Message Tracking feature allows Reviewers to provide more accurate search results.

5.2. Access FMT Feature

Archive Reviewers whose company has the Failed Message Tracking feature enabled by Support can access the Failed Message database through the EMS Archive interface.

Task 5.1. Access Search Failed Message Tracking

1) From the EMS home page you can access Failed Message tracking in two ways.

-	ab105 (Sign Out)					
	Home	Continuity 🄇	Archive	Security	Admin	Preferences
\sim		_			_	
Archive						
Search, access, a	nd retrieve ema	ail from your his	storical email a	archive. Ema	il archive p	rovides search of all
lext in email and a	uachinents. Fil	iu arry messag		N3.		
-						
	eywords					٩
	eywords					٩
Search personal	eywords	ompany archiv	es Search a	all failed mail)/iew red	Q overy archives

- In the Archive section, click the Search All failed mail link.
- Click the *Archive* link in the menu at the top of the page.

When then Archive page appears, click the Search All Failed Mail link.

	Home	Continuity	Archive	Security	Admin	Preferences
Search Personal Mail	arch Company	Archive Soar	ch All Epilod M	Init View Por	over Archive	View Potentian Holds
Configure Archive	arch Company	Archive	un All Falleu IV	Iall View Red	Jovery Archive	es view Recention riolus

2) Or the Failed Message Tracking Feature can be accessed from the **Search Company Archives** page. Below the search query area click *Failed Message Report*.

Sender	Subject	Receiv	red Date	Other Fields 🔻
		Search	Save	Reset
51 results	Tag	Create Archive	Create Hold	Failure Report
🔲 🖂 Administrator Το· Δdministrator@lab105.mr	ldev.com		V	Vednesday at 11:14 PM

Your current Reviewer Group is forwarded to the Failed Message Tracking page. If you are a member of more than one Reviewer Group, your reviewer group scope can be changed on the Failed Message Tracking page.

If your Search Company Archives page displays the results of a query, the query is forwarded to the Failed Message Tracking feature page, which implements the query before opening the page.

The following Archive query fields are forwarded to the Failed Message Tracking feature (remaining query fields are ignored):

- From (Sender)
- Subject
- Recipients
- Sent date or date range

5.3. Failed Message Tracking Report Page

When the Failed Message Tracking page appears, it lists the first twenty messages in the Failed Message database, with the remaining message listed 20 records per page.

Return to	your EMS Home				
Failed Me	ssage Filter Crit	eria			
Reviewer	Group: Temp Reviewe	r Group 💌			
SM	ITP ID:				
s	ubject:				
s	ender:				
Reci	pients:				
	Users: All Users		· · · · · · · · · · · · · · · · · · ·	Select Users	
Received Date	Range:		m comp		
	Begin:	🔟 🤤 End:	1		
			Search	Generate	Archive
Category	Sender	Recipients	Subject	Sent	Received 🔺
Partial Indexing, (Meta) View Documents	ankita2013@ dev.com	vaibhav14@ dev.com	Accepted: erte	09-02-2013 07:14 AM CDT	09-02-2013 07:14 AM CDT
Partial Indexing, (Meta) View Documents	<>	vaibhav14@dev.com	Delivered: erte	09-02-2013 05:26 AM CDT	09-02-2013 05:26 AM CD1
Dottial Indexing	ankita2012@day.com	usikhsu2012@dou.com	mail with attachment	00-20-2012	00-20-2012

5.3.1. Filtering Messages

To filter for specific messages, use the Failed Message Filter Criteria at the top of the page.

Failed Message	e Filter Criteria
Reviewer Group:	Temp Reviewer Group
SMTP ID:	
Subject:	
Sender:	
Recipients:	
Users:	All Users
Received Date Range: Begin:	iii A End:
	Search Clear Generate Archive

Failed Message Tracking Search provides an Archive Reviewer with searchable fields and query behavior *similar* to Archive Search, but due to the inherent differences, the Failed Message Tracking search fields and rules are:

- **Reviewer Group**: From the drop-down, select the Reviewer Group whose scope contains the message being queried for.
- **SMTP ID**: Enter the SMTP ID of the desired message. The SMTP ID can be gotten from Exchange server that originated the archived message. This field performs a case-insensitive, exact match, string search.
- **Subject**: Performs a case-insensitive, exact wording or phrase search to determine if the entered term(s) is contained in the message's **Subject** field. Double-quotes are not needed. Neither stemming nor wildcards are applied.
- Sender: Accepts only a single term, which does not have to be a fully qualified email address, and performs a case-insensitive, keyword search for the entered term in each messages' **From** field.
- Recipients: Accepts one or more search terms (which do not have to be a fully qualified email addresses), separated by comma, semicolon, colon or pipe characters, with no spaces between entries. This field performs a case-insensitive search to determine if any of the entered terms are contained in the message's Recipients list. Neither stemming nor wildcards are applied. The Recipients field search results are OR'd with the Users field search results.
- Users: Click the Select Users link to bring up the Select Users dialog, to choose EMS mailboxes. The Users field search results are OR'd with the Recipients field search results.
- Received Date Range: Click on the date icon, ^{III}, beside either or both of the Begin or End date fields, and select the desired date and time. Click the clear icon, ^{III}, beside the field to clear the entry. If a field is left empty, it indicates a search from the beginning or to the end of the data.

All filters entered are AND'd together. The one exception is that Recipients and Users are OR'd together then AND'd with the rest of the search terms.

For example, a filter of Subject=test and Received Date Range Begin=01-01-2011, would match only messages that were received on or after January 1, 2011, and contained the word "test" part of the message's subject.

5.3.2. Query Results

The results of the query are presented in a table, with twenty items a page.

The results table can be sorted either ascending or descending by **Received Date**. Change the sort order by clicking on the column title.

The possible failure categories are:

- Size Limit: The message was too large to be stored.
- Storage: The message failed to be stored correctly.
- Journaling: A journaled message (either Cloud Services or On-Premises Journaling) failed to be stored correctly.
- Indexing: The message was not indexed in any way
- **Partial Indexing (Minimal)**: A sub-set of the message's metadata was indexed, but the message body was not indexed.
- Partial Indexing (Meta): The message's metadata was indexed, but the message body was not indexed
- **Partial Indexing**: The message's metadata was indexed, and portions of the message body were indexed
- Internal: The failure category is not known.

5.3.3. View Documents

Each row in the query results table contains a *View Documents* link. Click this link to view the available information about the message.

Category	Sender	Re
Partial Indexing, (Meta) View Documents	ankita2013@dev.com	vaibhav14@de
Partial Indexing, (Meta) View Documents		vaibhav14@de

A pop-up appears, listing the available information regarding the message and its attachments.

	101 0106080	2022200000	
1.	Document #100.	5969::2	
	Category:	Partial Indexing	
	Content Type:	image/jpeg	
	Attachment:	true	
	Descriptor:	audit_link.jpg	
2.	Document #1003	75969::3	
	Category:	Partial Indexing	
	Content Type:	image/jpeg	
	Attachment:	true	
	Descriptor:	l-pink.jpg	
3.	Document #100	75969::4	
	Category:	Partial Indexing	
	Content Type:	image/jpeg	
	Attachment:	true	
	Descriptor:	link.jpg	

The following fields are available:

- **Message ID**: The ID of the email message, including the message's metadata and body.
- Document ID: The ID of the individual document—with a document being an individual message body or individual attachment—that failed some aspect of the storage or indexing process. For the email message body, the Message ID matches the Document ID.
- **Category**: This is category of the message storage or indexing failure.
- Attachment: This field's value is true or false. Where True means this document is an attachment, and False means this document is the body of the email message.
- **Description**: The subject of the email message or the attachment filename.

The pop-up contains information on portions of the message that failed the storage or indexing process. If portions of the message body or attachments succeeded in being stored or indexed, they will not be listed in the pop-up.

To download the message to your computer, in EML format, click the **Download** link, and select the location where to save the message.

5.3.4. Generate Archive

When the filter has produced the desired results, an email message archive can be generated containing the query results.

Once the archive creation process has completed, the archive can be exported, in either PST or EML format, using Export Manager.

Task 5.2. Generate Failed Message Archive

- 1) Finalize the query, to generate the desired list of messages.
- 2) Click the Generate Archive button.

				.ii		
	Users:	All Users			Select Users	
ed Date	Range: Begin:		🔟 🤪 End:	🗑 🥥	Generate	Archive
gory		Sender	Recipients	Subject	Sent	Received A
ndexing, ita) cuments	ankita2	013@ dev.com	vaibhav14@dev.com	Accepted: erte	09-02-2013 07:14 AM CDT	09-02-2013 07:14 AM CDT
ndexing, :ta)	<>		vaibhav14@dev.com	Delivered: erte	09-02-2013 05:26 AM CDT	09-02-2013 05:26 AM CDT

This brings up the Generate Failed Mail Archive page

3) Enter a name for the archive. Each archive name must be unique.

Generate Failed Ma	ail Archive
) create an archive of) ease enter an archive	messages which were not indexed or were only partially indexed, name and dick Submit.
Archive Name:	
Estimated Message Count:	12 Messages

4) Click *Submit* to generate the archive.

Archives may take a while to generate. You can check on the archive's status using the *View Recovery Archives* navigation item in.

Once an archive has completed, if you have access to Export Manager, you may export the archive using that tool. Or contact your EMS Archive Administrator, giving them the name of the archive, and ask for them to export it for you.

Appendix A: Stop Words

NOTE New Search Engine Behavior

Stop Words defines behavior implemented in the new search engine.

To make searching more efficient, the concept of stop words has been implemented. Stop words are words that are not indexed in the search database (just like all the instances of the word 'the' would not appear in the index of a book) which greatly improves search response times.

The exact function of stop words depends on the **Search Language** selection. If a specific language is selected, then the stop words for that language are used when returning search results. *Plus*, search results are returned for all emails whose language cannot be determined which match all search terms.

A.1. English Stop Words

Below is the list of currently implemented stop words for English:

а	are	be	for	it	or
an	as	but	in	of	the
and	at	by	is	on	to

A.2. Arabic Stop Words

A.3. Dutch Stop Words

Below is the list of currently implemented stop words for Dutch:

aan	dit	hebben	kan	nog	tot	worden
al	doch	heeft	kon	nu	u	wordt
alles	doen	hem	kunnen	of	uit	zal
als	door	het	maar	om	uw	ze
altijd	dus	hier	me	omdat	van	zelf
andere	een	hij	meer	onder	veel	zich
ben	eens	hoe	men	ons	voor	zij
bij	en	hun	met	ook	want	zijn
daar	er	iemand	mij	ор	waren	ZO
dan	ge	iets	mijn	over	was	zonder
dat	geen	ik	moet	reeds	wat	zou
de	geweest	in	na	te	werd	
der	haar	is	naar	tegen	wezen	
deze	had	ja	niet	toch	wie	
die	heb	je	niets	toen	wil	

A.4. French Stop Words

à	aviez	était	furent	me	sans	t
ai	avions	étant	fus	même	se	ta
aie	avons	été	fusse	mes	sera	te
aient	ayant	étée	fussent	moi	serai	tes
aies	ayez	étées	fusses	mon	seraient	toi
ait	ayons	étés	fussiez	n	serais	ton
as	С	êtes	fussions	ne	serait	tu
au	се	étiez	fut	nos	seras	un
aura	ceci	étions	fût	notre	serez	une
aurai	celà	eu	fûtes	nous	seriez	vos
auraient	ces	eue	ici	on	serions	votre
aurais	cet	eues	il	ont	serons	vous
aurait	cette	eûmes	ils	ou	seront	у
auras	d	eurent	j	par	ses	
aurez	dans	eus	je	pas	soi	
auriez	de	eusse	I	pour	soient	
aurions	des	eussent	la	qu	sois	
aurons	du	eusses	le	que	soit	
auront	elle	eussiez	les	quel	sommes	
aux	en	eussions	leur	quelle	son	
avaient	es	eut	leurs	quelles	sont	
avais	est	eût	lui	quels	soyez	
avait	et	eûtes	m	qui	soyons	
avec	étaient	eux	ma	S	suis	
avez	étais	fûmes	mais	sa	sur	

A.5. German Stop Words

aber	dem	durch	hatten	keinem	seine	vor
alle	die	ein	hier	keinen	seinem	während
allem	das	eine	hin	keiner	seinen	war
allen	daß	einem	hinter	keines	seiner	waren
aller	derselbe	einen	ich	können	seines	warst
alles	derselben	einer	mich	könnte	selbst	was
als	denselben	eines	mir	machen	sich	weg
also	desselben	einig	ihr	man	sie	weil
am	demselben	einige	ihre	manche	ihnen	weiter
an	dieselbe	einigem	ihrem	manchem	sind	welche
ander	dieselben	einigen	ihren	manchen	SO	welchem
andere	dasselbe	einiger	ihrer	mancher	solche	welchen
anderem	dazu	einiges	ihres	manches	solchem	welcher
anderen	dein	einmal	euch	mein	solchen	welches
anderer	deine	er	im	meine	solcher	wenn
anderes	deinem	ihn	in	meinem	solches	werde
anderm	deinen	ihm	indem	meinen	soll	werden
andern	deiner	es	ins	meiner	sollte	wie
anderr	deines	etwas	ist	meines	sondern	wieder
anders	denn	euer	jede	mit	sonst	will
auch	derer	eure	jedem	muss	über	wir
auf	dessen	eurem	jeden	musste	um	wird
aus	dich	euren	jeder	nach	und	wirst
bei	dir	eurer	jedes	nicht	uns	WO
bin	du	eures	jene	nichts	unse	wollen
bis	dies	für	jenem	noch	unsem	wollte
bist	diese	gegen	jenen	nun	unsen	würde
da	diesem	gewesen	jener	nur	unser	würden
damit	diesen	hab	jenes	ob	unses	zu
dann	dieser	habe	jetzt	oder	unter	zum
der	dieses	haben	kann	ohne	viel	zur
den	doch	hat	kein	sehr	vom	zwar
des	dort	hatte	keine	sein	von	zwischen

A.6. Portuguese Stop Words

а	era	estivesse	houvera	nem	será	teriam
à	era	estivessem	houverá	no	serão	teríamos
ao	eram	estivéssemos	houveram	nos	serei	teu
aos	éramos	estou	houvéramos	nós	seremos	teus
aquela	essa	eu	houverão	nossa	seria	teve
aquelas	essas	foi	houverei	nossas	seriam	tinha
aquele	esse	foi	houverem	nosso	seríamos	tinha
aqueles	esses	fomos	houveremos	nossos	seu	tinham
aquilo	está	for	houveria	num	seus	tínhamos
as	está	fora	houveriam	numa	só	tive
às	esta	foram	houveríamos	0	somos	tivemos
até	estamos	foram	houvermos	os	sou	tiver
com	estão	fôramos	houvesse	ou	sua	tivera
como	estão	forem	houvessem	para	suas	tiveram
da	estas	formos	houvéssemos	pela	também	tivéramos
das	estava	fosse	isso	pelas	te	tiverem
de	estavam	fosse	isto	pelo	tem	tivermos
dela	estávamos	fossem	já	pelos	tem	tivesse
delas	este	fôssemos	lhe	por	tém	tivessem
dele	esteja	fui	lhes	qual	têm	tivéssemos
deles	estejam	há	mais	quando	temos	tu
depois	estejamos	há	mas	que	tenha	tua
do	estes	haja	me	quem	tenham	tuas
dos	esteve	hajam	mesmo	são	tenhamos	um
é	estive	hajamos	meu	se	tenho	uma
е	estivemos	hão	meus	seja	tenho	você
ela	estiver	havemos	minha	seja	ter	vocês
elas	estivera	havia	minhas	sejam	terá	VOS
ele	estiveram	hei	muito	sejamos	terão	
eles	estivéramos	houve	na	sem	terei	
em	estiverem	houvemos	não	ser	teremos	
entre	estivermos	houver	nas	será	teria	
A.7. Russian Stop Words

а	всех	здесь	можно	0	себя	ты
без	ВСЮ	И	МОЙ	об	сегодня	у
более	вы	ИЗ	моя	один	сейчас	уж
больше	где	или	МЫ	ОН	сказал	уже
будет	говорил	ИМ	на	она	сказала	хорошо
будто	да	иногда	над	они	сказать	хоть
бы	даже	ИХ	надо	опять	со	чего
был	два	К	наконец	от	совсем	человек
была	для	кажется	нас	перед	так	чем
были	до	как	не	ПО	такой	через
было	другой	какая	него	под	там	что
быть	его	какой	нее	после	тебя	чтоб
В	ee	когда	ней	потом	тем	чтобы
вам	ей	конечно	нельзя	потому	теперь	чуть
вас	ему	кто	нет	почти	то	эти
вдруг	если	куда	ни	при	тогда	этого
ведь	есть	ли	нибудь	про	τογο	этой
BO	еще	лучше	никогда	раз	тоже	этом
BOT	ж	между	ним	разве	только	этот
впрочем	же	меня	них	С	том	эту
все	жизнь	мне	ничего	сам	тот	я
всегда	за	много	но	СВОЮ	три	
всего	зачем	может	ну	себе	тут	

A.8. Spanish Stop Words

				h - h - f -	L L.	
а	esas	estaria	fue	habran	hubieses	0
al	ese	estaríais	fuera	habrás	hubimos	OS
algo	eso	estaríamos	fuerais	habré	hubiste	otra
algunas	esos	estarían	fuéramos	habréis	hubisteis	otras
algunos	esta	estarías	fueran	habremos	hubo	otro
ante	está	estas	fueras	habría	la	otros
antes	está	estás	fueron	habríais	las	para
como	estaba	este	fueron	habríamos	le	pero
con	estaba	esté	fuese	habrían	les	росо
contra	estabais	estéis	fueseis	habrías	lo	por
cual	estábamos	estemos	fuésemos	han	los	porque
cuando	estaban	estén	fuesen	han	más	que
de	estabas	estés	fueses	has	me	qué
del	estad	esto	fui	hasta	mi	quien
desde	estada	estos	fuimos	hay	mí	quienes
donde	estadas	estoy	fuiste	haya	mía	se
durante	estado	estuve	fuisteis	hayáis	mías	sea
е	estado	estuviera	ha	hayamos	mío	sea
el	estados	estuvierais	ha	hayan	míos	seáis
él	estados	estuviéramos	habéis	hayas	mis	seamos
ella	estáis	estuvieran	haber	he	mucho	sean
ellas	estamos	estuvieras	había	hemos	muchos	seas
ellos	estamos	estuvieron	había	hube	muy	ser
en	están	estuviese	habíais	hubiera	nada	será
entre	están	estuvieseis	habíamos	hubierais	ni	serán
era	estando	estuviésemos	habían	hubiéramos	no	serás
erais	estar	estuviesen	habías	hubieran	nos	seré
éramos	estará	estuvieses	habida	hubieras	nosotras	seréis
eran	estarán	estuvimos	habidas	hubieron	nosotros	seremos
eras	estarás	estuviste	habido	hubiese	nuestra	sería
eres	estaré	estuvisteis	habidos	hubieseis	nuestras	seríais
es	estaréis	estuvo	habiendo	hubiésemos	nuestro	seríamos
esa	estaremos	fue	habrá	hubiesen	nuestros	serían

serías	tendría	tendréis	teníamos	todos	tuviesen	vosotras
sí	tendríais	tendremos	tenían	tu	tuvieses	vosotros
sido	tendríamos	tendrías	tenías	tú	tuvimos	vuestra
siendo	tendrían	tened	tenida	tus	tuviste	vuestras
sin	suyas	tenéis	tenidas	tuve	tuvisteis	vuestro
sobre	suyo	tenemos	tenido	tuviera	tuvo	vuestros
sois	suyos	tenga	tenidos	tuvierais	tuya	у
somos	también	tengáis	teniendo	tuviéramos	tuyas	ya
son	tanto	tengamos	ti	tuvieran	tuyo	уо
son	te	tengan	tiene	tuvieras	tuyos	
soy	tendrá	tengas	tiene	tuvieron	un	
su	tendrán	tengo	tienen	tuviese	una	
sus	tendrás	tenía	tienes	tuvieseis	uno	
suya	tendré	teníais	todo	tuviésemos	unos	

A.9. Swedish Stop Words

alla	deras	ett	inom	något	sin	varit
allt	dess	för	inte	några	sina	varje
än	dessa	från	jag	när	sitta	vars
är	det	ha	ju	ni	själv	vart
åt	detta	hade	kan	nu	skulle	vårt
att	dig	han	kunde	och	som	vem
av	din	hans	man	om	till	vi
blev	dina	har	med	OSS	under	vid
bli	ditt	här	mellan	över	upp	vilka
blir	du	henne	men	på	ut	vilkas
blivit	efter	hennes	mig	så	utan	vilken
då	ej	hon	min	sådan	vad	vilket
där	eller	honom	mina	sådana	var	
de	en	hur	mitt	sådant	vår	
dem	er	i	mot	samma	vara	
den	era	icke	mycket	sedan	våra	
denna	ert	ingen	någon	sig	varför	