MailStore Server 11 Documentation

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Installation

1.1 Installation

MailStore Server can be installed on virtually any Windows PC. Neither a server operating system nor a database system is required. For example, you can set up a test installation of MailStore Server on your desktop machine without any problem. Running MailStore Server inside a virtual machine is supported as well. For more information, please refer to the System Requirements article.

Choosing a Computer for the Installation of MailStore Server

Whenever possible, MailStore Server should be installed on a dedicated machine. Depending on the environment, archiving strategy and usage, MailStore Server can be installed on an already existing server, too. On the part of the email server to be archived, no components need to be installed though.

Starting the Installation

To start the installation process, double-click on the downloaded setup file. This is a regular Windows installation, just follow the instructions on the screen:

- If you want to install MailStore Server in a language different to the operating system's, you can choose it at the beginning of the installation.
- Carefully read the license agreement and privacy policy. You have to agree to these terms to continue.
- In the next step you can choose which folder to install MailStore Server in. In most cases, you should keep the default setting.
- The installation program now deploys the necessary components.

You must now enter your MailStore product key which you have received by email after your trial registration or upon buying MailStore Server. Alternatively you can import a license file here. That file you can download either through the link provided in the dialog or directly from our website ^[1].

- If you've entered a valid 30-day-trial key, it will be activated automatically. If you've entered a production license key, all information that is sent to MailStore will be displayed before activation.
- In the next step you can configure several settings of your MailStore Server installation:

Install License • Use product key Product Key: Company: • Use license file Browse		Setup 📃 🗖 🗙
		Use product key Product Key:
MAIL Download license file from MailStore website. STORE < Back	MAIL STRE	Browse Download license file from MailStore website.

D X

-

Auto-configure Windows Firewall

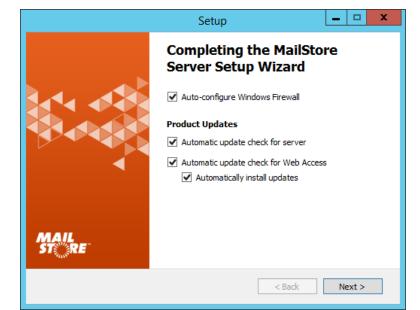
If this option is enabled, the default MailStore TCP ports will be opened in the Windows Firewall by the installation program automatically.

> • Enable automatic update check for server If this option is enabled, MailStore Server regularly checks for new product versions. If a new version

is available, this will be displayed on the dashboard in the MailStore Client.

Enable automatic update

check for Web Access If this option is enabled, MailStore Server regularly checks for new versions of



the MailStore Web Access. If a new version is available, this will be displayed on the dashboard in the MailStore Client.

Submission of anonymous usage data

If this option is enabled, MailStore Server regularly sends data on how the program is being used to MailStore. This data allows us to better understand different usage scenarios of MailStore Server and focus our development capacities accordingly. The submitted data is collected and evaluated exclusively for this purpose.

No personal data such as user names, passwords or email content will be submitted. The submitted data is completely anonymized and cannot be correlated to a specific customer installation. You can enable or disable this option in the MailStore Client under Administrative Tools > Miscellaneous > Product Updates at

 Help us to improve MailStore

 By allowing MailStore to submit anonymous statistical data, you help us to get an even better understanding of how our software is used. You can look at the data or submit sion of anonymous usage data

 Construction

 Image: Submission of anonymous usage data

 <t

Setup

any time; the option is disabled by default (opt-in).

• By clicking on *Finish* the installation will be completed and the MailStore Server Service and the MailStore Client will be started.

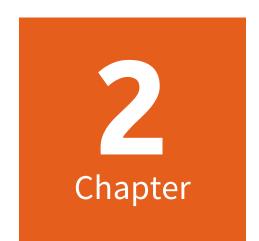
The installation program creates a fully functional default installation of MailStore Server, which is perfectly suited for testing purposes. For production environments, parameters such as the Master Database directory, features, TCP ports, SSL certificates etc can be customized via the MailStore Server Service Configuration.

First Time Installation

After successfully installing MailStore Server for the first time, it is recommended to continue with the Quick Start Guide. A step-by-step tutorial explains the basics, from creating users to successfully archivig emails for the first time.

References

[1] https://go.mailstore.com/?lang=en&target=activate



Archiving Methods

2.1 Archiving Email

Email Archiving with MailStore Basics

Emails can be archived from the mailboxes of email servers such as Microsoft Exchange as well as from the locally installed email clients of the users. Dependent on its type, archiving tasks can be performed continously, manually or based on a schedule.

If you are not sure which archiving method best suits your company, please refer to chapter Choosing the Right Archiving Strategy.

In chapter Email Archiving with MailStore Basics you can find out more about working with archiving profiles, archiving specific folders, deleting emails after archiving and automating the archiving process.

Email Clients

Archiving Email from Outlook, Thunderbird and Other E-mail Clients

As opposed to all other archiving features, it is imperative that the MailStore Client software is installed on the user computers when archiving emails from these users' email applications. Once the archiving task is set up, it can be started manually by the user or executed automatically according to a schedule. Additional information about this topic is available in chapter Archiving Email from Outlook, Thunderbird and others.

Email Files

Archiving Outlook PST Files

As administrator, you can archive Microsoft Outlook PST files for other MailStore users. Additional information about these topics is available in chapter Archiving Outlook PST Files Directly.

Archiving EML or MBOX Files

As administrator, you can archive emails from .eml or .msg files for other MailStore users. Additional information about these topics is available in chapter Archiving Emails from External Systems (File Import).

Email Servers

Archiving Microsoft Exchange or Office 365 Mailboxes and Public Folders

With MailStore you can archive already existing Exchange or Office 365 mailboxes as well as public folders. You have the option to archive individual, multiple or all mailboxes in one step as well as archiving all incoming and outgoing emails by using the Exchange journal feature.

Additional information about this topic is available in the chapter matching your Exchange version:

- Microsoft Exchange 2003
- Microsoft Exchange 2007
- Microsoft Exchange 2010
- Microsoft Exchange 2013
- Microsoft Exchange 2016
- Microsoft Office 365

Archiving Alt-N MDaemon Mailboxes

MailStore offers first class support for the popular MDaemon Messaging Server from Alt-N. With MailStore you are able to archive single mailboxes, multiple or all mailboxes in one step as well as archiving all incoming and outgoing emails. Additional information is available in chapter Archiving Emails from MDaemon.

Archiving Kerio Connect Mailboxes

MailStore Server offers special support for the popular Kerio Connect email server allowing you to archive individual, multiple or all mailboxes in one easy step. Additional information is available in chapter Archiving Emails from Kerio Connect

Archiving IceWarp Mail Server Mailboxes

MailStore Server offers special support for the popular Ice Warp Mail Server allowing you to archive individual, multiple or all mailboxes in one easy step. Additional information is available in chapter Archiving Emails from IceWarp Mail Server

Archiving Other Email Servers

With MailStore you can also archive the mailboxes of other email servers using the IMAP or POP3 protocols. These include web-based mailboxes such as Google Mail or Web.de. MailStore supports archiving individual mailboxes, multiple mailboxes in one step, as well as catchall or multidrop mailboxes that can be used to archive all incoming and outgoing emails.

General information is available in the chapters:

- Archiving Single Mailboxes
- Archiving Multidrop Mailboxes
- Batch-archiving IMAP Mailboxes

The actual procedure depends on the email server you are using. Detailed information for a number of email servers is available in our Implementation Guides.

2.2 Choosing the Right Archiving Strategy

MailStore Server offers several options for archiving emails. Choosing the right archiving strategy depends on the email infrastructure (e.g. email server and email clients) on one hand, and company objectives on the other.

Archiving All Incoming and Outgoing Emails Automatically

With this archiving method, all emails are archived before they are delivered to the user mailboxes.

Advantages

- Completeness of the archive is guaranteed
- Emails cannot be manipulated before archiving
- Meeting legal requirements is made possible or greatly facilitated

Disadvantages

- If private emails are allowed in the company, this archiving method may cause difficulties regarding the privacy laws of some countries. In this case, a company-wide ban of all private email communication, a contractual agreement with the employees or approval of an employee organization would be required
- The workload of the email server and the amount of data is not reduced because all emails are still delivered and stored in the mailboxes
- Emails can only be allocated to users as sent or received object; a reproduction of the mailbox folder structure is not possible

Implementation

- With Microsoft Exchange by archiving the Journal mailbox
- With IMAP-compatible email servers such as MDaemon, Kerio Connect or IceWarp MailServer by archiving multipdrop mailboxes (also called catchall mailboxes)
- In all other cases and in companies without their own email server by using the MailStore Proxy Server free of charge

Archiving of Individual Mailboxes

With this archiving method, emails are archived from the individual mailboxes of the users. This can be achieved by archiving the mailboxes directly from the email server or, if that is not possible, by archiving of email clients.

Advantages

- The folder structure of the archived mailboxes, email clients or PST files is applied to the archive facilitating access to the archived emails
- The archived emails can be deleted from the mailboxes according to pre-defined rules permanently reducing the workload of the email server

Disadvantages

- Emails can be deleted or manipulated before archiving, even if the archiving intervals are very short
- Meeting legal requirements cannot, or only with difficulty, be implemented

Time-controlled Execution of Archiving Tasks

Archiving of email servers is a continuously running task in MailStore Server, carried out server-side in the background, as soon as the execution of an archiving profile is set to *Automatic*. By defining a break between each execution as well as a period in which the archiving profile is never executed, administrators have full control over the automatic archiving process.

Archiving of email clients and email files usually depends on the current Windows user and is therefore executed on the client, typically manually (see *One-time Archiving of Existing Emails*). MailStore allows to create scheduled tasks in the Windows Task Scheduler to automate client-side archiving tasks. This should be considered if no other option is availble - server-side archiving is always to be preferred.

One-time Archiving of Existing Emails

In addition to archiving future emails, preexisting emails should also be archived and made available permanently to your company. This one-time process should include emails in decentralized storage (e.g. PST files or the users' email clients). At the same time, older emails (e.g. more than two years old) can be deleted from the mailboxes automatically after archiving. This frees up storage space on the email server and simplifies backup procedures. All emails remain accessible to users via the MailStore archive.

2.3 Email Archiving with MailStore Basics

Working with Archiving Profiles

In MailStore Server, every archiving task is stored as an archiving profile. By executing such a profile the archiving process is started.

8	MailStore Server 10	_ _ X
Archive	Archive E-mail	2
Quick Search admin's Archive Search Start Page > > > > > Archive E-mail > Export E-mail Recent Results >	Archiving tasks are saved as profiles. Deleting profiles has no effect on emails that have already been archived. Trademarks Create Profile E-mail Clients E-mail Clients Profiles	
	Profile Name Last Result Image: Spage Bexample.com via IMAP-TLS Image: Spage Bournal Image: Spage Bournal	Andrea.eastman@example Summary andrea.eastman@example.com arget archive: andrea.eastman Properties Commands Toperties Commands Current Status Not running Run Last Execution The profile has never been run or no data about the execution is available. Detais All Results
		Connected to MAILSTORE

Such an archiving profile could contain the following information:

- WHAT: Mailbox p.berten@company.com
- WHENCE: Exchange server EXCHANGE01
- WHERE (Target archive in MailStore Server): peter.berten
- SCOPE: All folders except drafts
- DELETION RULE: Delete all archived emails from the Microsoft Exchange mailbox that are older than 3 months.

Creating an Archiving Profile

To create a new archiving profile proceed as follows:

- Start the MailStore Client and click on Archive Email to create and execute an archiving profile.
- In the *Create Profile* section of the application window, select the source from which the emails should be archived (e.g. Microsoft Outlook). A wizard opens.
- During the first steps of the wizard, several different settings can be specified for the archiving profile. These include the selection of folders (e.g. "Inbox") or deletion rules (by default, no emails are deleted).
- If you are logged on as MailStore Server administrator, you will be prompted for the target archive (user archive), in which the emails should be stored. If logged on as a regular user, the corresponding user archive will be used automatically.
- In the last step, a name for the archiving profile can be specified. Archiving profiles of type *E-mail Server* provide an option to configure the automatic execution from here as well. After clicking *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Please note: Only MailStore Server administrators can archive emails into a target archive other than their own. This is not possible for regular MailStore Server users.

Manual Start of Archiving Process

As long as the automatic execution of an archiving profile has not already been configured (type *E-mail Servers* only) during its creation, you can manually execute archiving profiles at any time. It is recommended to always start the initial archiving process manually in order to identify possible configuration issues (i.e. incorrect credentials) as early as possible.

To manually start the archiving process, select the archiving profile to be executed from the list under *Saved Profiles* and click on *Run*.

A progress windows appears. After the archiving process has been completed you can get further information about its course as well as possible errors by clicking on *Details*.... A debug log is also available here.

In addition to being executed manually, archiving profiles can also be run automatically according to a schedule. Additional information about this topic is available in the chapter Automating the Archiving Process.

Executing Archiving Profiles Multiple Times

Any archiving profile can be run any number of times without concern. MailStore Server only archives emails that are not yet stored in the target archive (the specified user archive). MailStore Server also detects if any emails were moved to a different folder within the source application (e.g. Microsoft Outlook) and reproduces such moves in its archive accordingly.

Editing Archiving Profiles

To edit an existing archiving profile, proceed as follows:

- Select the archiving profile you want to edit from the list Saved Profiles and click on Properties.
- Navigate between the profile's pages with Next and Back and change the settings as desired.
- Save the new settings on the last page by clicking OK.
- By clicking *Cancel* you can quit editing the archiving profile at any time without committing any changes.

Deleting Archiving Profiles

If no longer needed, you can delete an existing archiving profile.

- Right-click on the archiving profile you want to delete or click on Commands and select Delete
- A confirmation prompt appears. Acknowledge by clicking OK.

Please note: Deleting an archiving profile has no effect on emails that have already been archived. They remain in the archive.

Changing Owner of Archiving Profiles

As MailStore Server administrator (*admin*) you can change the owner of an archiving profile. That way you can prepare archiving profiles for your users which they can execute on their own afterwards.

- Right-click on the profile you want to change and select Change Owner....
- · Choose the profile's new owner in the next dialog.
- Confirm the selection by clicking on OK.

Please note: If you as a MailStore Server administrator have selected a target archive that does not belong to the new profile owner, the execution of that profile by its new owner will fail if she is not a MailStore Server administrator herself.

Only MailStore Server administrators can archive emails into a target archive other than their own. This is not possible for regular MailStore Server users.

Managing and Executing the Archiving Profiles of Other Users

As MailStore Server administrator (admin) you can manage the archiving profiles created by other users as well.

- In the section Saved Profiles activate the option Show Profiles of All Users.
- You can now edit, execute or delete these profiles just as your own.

Special Case: Executing the archiving profiles for email clients for other users

The execution of archiving profiles for email clients such as Microsoft Outlook or Mozilla Thunderbird usually makes only sense on the PC where the corresponding email client is installed because that client stores emails and data necessary for accessing them locally on that PC.

Example: If user A has an archiving profile for Microsoft Outlook, you can view and edit it as a MailStore Server administrator through your MailStore Client. However, executing this profile only makes sense if it is run using the MailStore Client that is installed on user A's computer because only there can the locally stored data be accessed.

This information only applies to archiving profiles listed in the *E-mail Clients* section.

Archiving Specific Folders

By default MailStore Server archives the emails from all folders of the email application or email mailbox except the following (the list may vary depending on the system):

- Deleted Items Emails that were deleted by the user
- Drafts Emails that are still being edited and that have not yet been sent
- Junk Email Emails that have been classified as spam
- Outbox Emails that are about to be sent and will be listed under Sent Items after sending

The standard settings can be customized; for every archiving profile, folders can be included or excluded as needed.

Please notice: Take care of upper and lower case when manually specifying folder names for inclusion or exclusion. These declarations are case-sensitive.

General Procedure

You can select the folders to be archived directly upon creating a new archiving profile. Alternatively, you can adjust the selection for already existing profiles. Additional information about creating and editing archiving profiles is available in the chapter Working with Archiving Profiles. The following screenshot shows how to access the folder settings using a Microsoft Outlook archiving profile as an example:

Archive Microsoft Outlook Advanced Settings Please configure access to Microsoft Outlook.
Folders All e-mail folders. Deleted Items, Drafts, Junk E-mail and Outbox excluded. Filter Image: State of the state of
○ Date: 30.06.2014 ∨ 00:00
Delete Messages are never deleted in Microsoft Outlook. Cancel < Back Next > Help

Selecting Folders for Archiving

You can specify the folders that MailStore Server should archive. In this case, MailStore Server limits archiving to the selected folders and ignores all others.

• In the folder selection under Include Folders and Subfolders, click on Add.

Select Folders		×
Include Folders and Subfolders		
If no folders are specified here, MailStore will process all folders.		
Outlook/Archive	^	
	~ -	Add
Exclude Folders and Subfolders		
☑ Always exclude Deleted Items, Drafts, Junk E-mail and Outbox	:	
	^	
	~ [Add
	ncel	Help

- Select a folder.
- With the *Include Subfolders* option you can specify if subfolders of the selected folder should be included in the archiving process as well.
- Click on OK to add the folder to the list.

Example: You have created a folder *Archive* in the email application or the mailbox, into which the user moves all emails that should be archived. In this case, add the folder *Archive* to the inclusion list. That way, only this single folder will be archived.

Excluding Folders from the Archiving Process

MailStore Server can be configured to always exclude certain folders from the archiving process.

• In the folder selection in the Exclude Folders and Subfolders section, click on Add.

Selec	t Folders	×
Include Folders and Subfolders		
If no folders are specified here, MailStor	e will process all folders.	
	^	
	~ Add.	
Exclude Folders and Subfolders		
Always exclude Deleted Items, Draft	s, Junk E-mail and Outbox	
Outlook/Inbox Outlook/Private	^	
Outdokyrnvate		
	V Add.	
Show Effective Folders	OK Cancel Hel	2

- Select a folder.
- With the *Include Subfolders* option you can specify if subfolders of the selected folder should be excluded from the archiving process as well.
- Click on OK to add the folder to the list.

Example 1: Emails that are still in the Inbox should not be archived because they will either be deleted or moved to a project folder by the user. In this case, add the *Inbox* folder to the list of folders to be excluded.

Example 2: Emails that are in a folder named *Private* should not be archived as it may contain personal information that is prohibited by law (in some countries) to be archived.

Please note: Depending on the system, some folders (e.g. *Deleted Items*) are always excluded from the archiving process. To deactivate this automatic exclusion, clear the checkbox *Always exclude <folder names>*.

Using Regular Expressions to Include or Exclude Folders

In MailStore Server you can include or exclude folders using regular expressions. The syntax follows the Specification of Regular Expressions in the .NET Framework 4.5.1^[1]. To specify a regular expression simply prefix it with | | or | i | (using case sensitivity/insensitivity).

8	Select Folders	×
Incl	ude Folders and Subfolders	
	If no folders are specified here, MailStore will process all folders.	
	Folder\d/Folder\d\.\d	
	~	Add
Exc	lude Folders and Subfolders	
	✓ Always exclude Deleted Items, Drafts, Junk E-mail and Outbox	
	Folder\d/Folder\d\.\d/w+	
	✓	Add
	Show Effective Folders OK Cancel	Help

Examples

The regular expression "||Folder\d/Folder\d\.\d" would for example include Folder1/Folder1.1 in the archiving.

The regular expression "||Folder d/Folder d. d/w+" excludes further subfolders in the structure above from being archived. The result could look like this:

Show Effective Folders	×
	OK
Ciana Deleted Items	Cancel
Folder 1	Cancer
Folder 1. 1. 1	
Folder 1.2	
E Folder2	
Folder 2. 1	
E Folder 2.2	
Folder 2. 2. 1	
Inbox	
Outbox	
I Sent Items	

Defining Sent Items Folders

The message list in the archive displays the recipient on sent messages and the sender on received messages. Therefore a user always sees his communication partner in the message list.

When archiving user mailboxes, sent messages are identified through their containing folder. In case of Exchange- and Outlook archiving profiles, MailStore is able to detect the sent items folder automatically. When archiving from IMAP servers that implement the *SPECIAL-USE*-capability, MailStore is also able to detect the sent items folder if the option is enabled in the archiving profile. Since IMAP clients may not support that capability, these clients may have created their own sent items folder, with the result of multiple folders that hold send items. For MailStore to detect all sent items, the list of sent items folders can be extended in IMAP archiving profiles.

S	Select Folders ×
Incl	ude Folders and Subfolders
	If no folders are specified here, MailStore will process all folders.
	✓ Add
Excl	ude Folders and Subfolders
	i Junk Infected Items
	OUTBOX
	✓ Add
Sen	t Items Folders
	☑ Detect sent items folders automatically
	Sent
	✓ Add
S	how Effective Folders OK Cancel Help

In case the wrong communication partner is displayed in the message list, the *message type* can be changed by an administrator in the MailStore Client by right clicking on the message and selecting *Change Message Type*.

Archive access on other users' messages has to be unblocked in case the *message type* of other users should be changed. The archiving profile should configured that manually changing the message type afterwards should not be necessary.

Showing the Folders Selected for Archiving

In the folder selection, click on *Show Effective Folders* to verify the selected settings. Hereby all folders that will effectively be archived are displayed. Folders displayed in gray will not be archived. In IMAP archiving profiles, folders that contain sent messages will have a small envelope icon attached.

Show Effective Folders	x
Show Effective Folders	OK Cancel

Specifying Filter Criteria for Archiving

In MailStore Server, you can limit archiving to certain emails for most archiving profiles by specifying filter criteria. The following filter options are available:

	MailStore Server ×
0	Archive Microsoft Outlook Advanced Settings Please configure access to Microsoft Outlook.
	Folders Image: All e-mail folders. Deleted Items, Drafts, Junk E-mail and Outbox excluded. Filter Image: Image: Also archive unread messages Image: I
	 ○ Date: 30.06.2014 ∨ 00:00 ↓ UTC ● Range: 1 months ∨
	Delete K Messages are never deleted in Microsoft Outlook
	Cancel < Back Next > Help

• Also archive unread messages

By default, MailStore Server archives emails without regard to their *read/unread* status. Deactivating this option limits archiving to emails with status *read*.

• Only archive messages that are older than

• Date

Here you can specify a particular date to which MailStore Server compares the send or receive date of the emails to be archived. Only emails that have been sent or received before this date will be archived. The *UTC* option defines whether this date is specified in Coordinated Universal Time (UTC) or takes the local time zone of the MailStore Server into account.

• Range

With this option MailStore Server only archives emails that have been sent or received before the beginning of this range, measured from the date of archiving.

Deleting Emails after Archiving

MailStore Server can be used to reduce and to keep the amount of emails stored in a source system at a minimum. Source system can be email servers, email mailboxes, email applications as well as email files or email container files. Please notice that deletion of emails is not available in some archiving profiles due missing interfaces of the source system.

The delete feature that has to be activated explicitly enables MailStore Server to delete emails from the source system autonomously, according to specified rules and time periods.

Please note: In order to not jeopardize ongoing business processes, emails that have been flagged will never be deleted by MailStore Server. Configured deletion rules do not apply to such emails. To get them delete by MailStore Server you have to un-flag them in the source system directly.

Functionality

By default, MailStore Server only copies emails from the source system into its archive. The archives emails remain in the source system and will not be deleted.

The deletion process will be executed after the archiving of all emails by the archiving profile has been finished. During this process it is explicitly checked whether any email that is about to be deleted has really been archived. This ensures that only emails will be deleted from the source system that have been written into the archive before.

Please note: Emails can only be deleted from a source system after an archiving process, which means that such deletions are *always* tied to an archiving profile. Furthermore, deletion rules have to be configured explicitly in such a profile as described in further detail below.

Beyond this functionality, no other automatic processes exist to delete emails from their source systems.

Configuration

Delete conditions can be configured during setting up a new archiving profile or for existing profiles under *Advanced Settings > Delete*.

	MailStore Server
07	Archive Microsoft Outlook Advanced Settings Please configure access to Microsoft Outlook.
	Folders All e-mail folders. Deleted Items, Drafts, Junk E-mail and Outbox excluded. Filter Image: Second Se
	○ Date: 30.06.2014 ∨ 00:00 ◆ UTC ○ Range: 1 months ∨
	Delete Messages are never deleted in Microsoft Outlook.
	Cancel < Back Next > Help

The following options are available:

Delete in Microsoft Outlook		
⊖ never		
 immediately after archiving 		
○ at least 1 days ∨ after archiving		
● if message older than 6 months ∨		
OK Cancel Help		

never

Emails are never deleted from the source system. In effect, emails will be copied into the MailStore Server archive. This is the default setting.

- **immediately after archiving** Emails are deleted from the source system as soon as they have been successfully archived. In effect, emails will be moved into the MailStore Server archive.
- at least [period] after archiving Emails are deleted from the source if they have been in the MailStore Server archive for at least the given

period of time. In effect, emails will be copied into the MailStore Server archive at first and also remain in the source system for the given period, before they will be deleted in a subsequent run of the archiving profile.

if message older than [period]

Emails are deleted from the source system if their send or receive dates predate the given period of time. In effect, emails with send or receive dates in the given range will be copied into the MailStore Server archive at first, while those with send or receive dates predating the given range will be moved into the MailStore Server archive. During subsequent runs of the archiving profiles, previously archived emails will be deleted from the source systems if they match the defined age criterion.

Please note: If a filter date or range is configured together with a deletion rule *if message older than*, the longer period of time will be applied to the deletion rule as well.

If, for example, the filter range is set to *Only archive messages that are older than 1 month* and the deletion rule is set to *if message older than 1 day*, only emails will be deleted that are older than one month because younger emails have not been archived yet.

With MailStore Server, it is not possible to delete emails from source systems that have not been previously archived.

Automating the Archiving Process

With MailStore, every archiving profile can be executed automatically. MailStore Server distinguishes mainly between two type of automatic executions. For archiving profiles from the category *E-mail Server*, a continuous server-side execution by MailStore Server is available, whereas profiles from the category *E-mail Clients* and *E-mail Files* are executed solely on the clients by means of the Windows Task Scheduler.

Important notice: The time-controlled execution of archiving processes cannot prevent users from deleting emails from their email applications or mailboxes prior to having been archived. In order to ensure that all emails are archived they should be automatically archived upon sending and receiving.

By deleting a scheduled task (through MailStore's Administrative Tools or the Windows Task Manager) neither the underlying archiving profile nor the emails already archived by the task are deleted.

Automating Execution of E-mail Server Archiving Profiles

If the automatic execution was not already configured while creating a new archiving profile, follow the below instructions to activate the automatic execution of archiving profiles from the *E-mail Servers* category.

- Start MailStore Client
- Log in to MailStore Server
- Click on Archive Email.
- Right-click on an existing archiving profile in the *Saved Profiles* list or click on *Commands* and then click on *Automatic....*
- In the Automatic Execution dialog you can specify the properties of the continuous execution:
 - Between executions, wait...seconds

Defines how long MailStore Server should wait until the next execution of the archiving profile.

- **Do not execute between** This option allows to specify a period in which the archiving profile is not executed. This for example can be due to nightly backups or other maintenance tasks.
- After defining all settings, click OK

MailStore immediately starts the continuous execution of the archiving profile in the background. In the *Current Status* section, the status of the selected archiving profile can be watched. The very last execution results can be shown by clicking on *Details...*, whereas a list of all previous executions results is shown after clicking on *All Results...*

Automating Execution of E-mail Client or E-mail Files Archiving Profiles

Archiving profiles from the category *E-mail Clients* (i.e Microsoft Outlook, Mozilla Thunderbird) and *E-mail Files* must be executed in the context of the Windows users whose emails are to be archived or who has access to the files to be archived. To automate the archiving process of these profiles please proceed as follows:

Please note: As MailStore administrator and using MailStore's user management, first verify that the user possesses the privilege to archive emails.

- Start MailStore Client on the user's computer.
- Log on to MailStore Server using the user's credentials.
- Click on Archive Email.
- Right-click on an existing profile or click on Commands and then select Create Task on <COMPUTERNAME>.

		Schedule Task	×		
\bigcirc	Schedul	e Task			
	Name:	Microsoft Outlook - Anita Yarger (ID 3)			
	Action:	Action: Microsoft Outlook - Anita Yarger (ID 3)			
	Trigger				
	Daily at	02:00			
	O Every	60 Minutes			
	O Other Trigger				
	Please note that the scheduled task will only run when the current user is logged on. You can change this and other settings in Windows Task Scheduler.				
Copy Cr	nd Line	OK Cancel Help			

• In the next window "Schedule Task" the following settings can be specified:

• Task - Name:

The task name can be chosen freely. By default, the name of the archiving profile and its internal MailStore ID are used.

• Trigger:

The following triggers can be specified:

- Daily at Specify a time for the daily execution (once a day)
- Every [xx] minutes Specify an interval of minutes to execute the profile (i.e. every 60 minutes)
- Other Trigger If the option Other Trigger is chosen. the archiving task is still created as a Windows task but the execution times have to be specified separately. This has to be done using the Windows Task Scheduler and is described in Windows Help. All options offered by your version of Windows can be used.
- After all settings have been specified, the task can be created by clicking on OK. Confirm the safety prompt
- Confirm again by clicking OK.

Please notice: Modifications to the schedule of archiving profiles from the categories *E-mail Clients* or *E-mail Files* is only possible through the Windows Task Scheduler. The task scheduler can be opened directly from

MailStore Client by right-clicking on one of the existing profiles from the above categories and selecting the option *Open Windows Task Scheduler*.

Showing the Command Line

If desired, the archiving process of *E-mail Client* and *E-mail Files* profiles can be incorporated into a larger procedure, such as one run by a batch file (.bat). To simplify this process, MailStore offers the option *Copy Cmd Line* in the Schedule Task window (see top of this page). Click on the button to view a command line that can be incorporated into the desired procedure. For example:

```
"C:\Programme\Mailstore\MailStore Server\MailStoreCmd.exe"
--h="localhost" --pkv3="A3774AD575BA6DE29844829697585EBE21B20B83"
--cred="admin@127.0.0.1"
-c import-execute --id=4 --user="admin" --verbose
```

The command line is to be read as follows:

"...\MailStoreCmd.exe" - MailStoreCmd.exe is the MailStore Management Shell. It was developed for the automated execution of certain processes in MailStore. Additional information about MailStoreCmd is available in chapter MailStore Server Management Shell.

--h="localhost" - The computer name of MailStore Server to which MailStoreCmd.exe is to connect.

--**pkv3="..."** - Public Key Fingerprint. It guarantees that the MailStore server at the time of archiving is the same as it was at the time when the scheduled task was created (optimal safety feature).

--cred="admin@127.0.01" - The password of the user *admin* of the server *127.0.0.1* will be read from the Windows Credential Manager, which has been stored there before by MailStore.

-c - The actual command follows (non-interactive mode).

import-execute --id=4 --user="admin" --verbose - Execute the archiving profile of user *admin* with the internal ID 4.

References

[1] http://msdn.microsoft.com/en-us/library/az24scfc(v=vs.110).aspx

2.4 Archiving Email from Outlook, Thunderbird and others

Important notice: As opposed to all other archiving features, it is imperative that the MailStore Client software is installed on the user computer when archiving emails from Outlook, Thunderbird and other email applications.

Once the archiving task is set up, it can be started manually by the user or executed automatically according to a schedule any number of times. During this process, the emails are transferred by the MailStore Client of the user to the central MailStore Server for archiving.

Please note: If the user emails are accessible (e.g. on a network drive) to the MailStore administrator in form of individual PST files, they can be archived directly by the administrator. As opposed to archiving from Outlook, this can be done completely independently from the user and the user computer. Additional information about this topic is available in the chapter Archiving Outlook PST Files Directly.

Supported Email Applications

MailStore supports archiving emails from various email applications, including:

- Microsoft Outlook 2003, 2007, 2010, 2013, 2016 (Click-to-Run versions 2013 and higher only)
- Microsoft Windows Mail (integrated in Windows Vista)
- Microsoft Windows Live Mail
- Mozilla Thunderbird
- Mozilla SeaMonkey

Even email applications not listed here can often be archived using the file system (EML) and MBOX import. Additional information is available in the chapter Archiving Emails from External Systems (File Import).

Important notice: MailStore does not support archiving of Microsoft Outlook profiles that use third-party components to access mailboxes on an email server. Please archive those mailboxes directly.

Procedure

Setting up archiving processes for Outlook, Thunderbird and other email applications is done using archiving profiles. General information about archiving profiles is available in the chapter Working with Archiving Profiles.

- Create a MailStore user account (if one does not already exist) for each user whose emails are to be archived and grant them the privileges to archive emails and to create, edit and delete archiving profiles. Additional information is available in the chapter User Management.
- Install the MailStore Client software on the corresponding user computers.
- Ask each user to log on to MailStore Server using their MailStore Client. Under *Archive Email*, a new archiving profile can be created for each user. In the *Create Profile* area of the application window, select the source from which the emails are to be archived (e.g. Microsoft Outlook).
- A wizard opens. At the first steps of the wizard, several settings can be specified for the archiving profile. These include the selection of the folders (e.g. "Inbox") and deletion rules (by default, no emails are deleted). An explanation of these settings can be found later on in this chapter under Settings for Archiving Profiles.
- If logged on to MailStore Server as administrator, the target archive can be specified at the next step of the wizard. Select the archive of the user whose computer is currently being used.
- At the last step, a name for the archiving profile can be specified. After clicking *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Settings for Archiving Profiles

Upon creating or editing an archiving profile, different settings can be specified for the archiving task. Settings vary depending on the type of the email client selected (e.g. *Microsoft Outlook* or *Mozilla Thunderbird*).

Folders - Specify here, which folders (e.g. "Inbox") are to be archived. Additional information is available in chapter Archiving Specific Folders.

Filter - Also archive unread messages: By default, MailStore archives both read and unread emails. Clear the checkbox next to this text to exclude unread emails from the archiving process.

Delete - If desired, MailStore can automatically delete emails from the source application (e.g. Microsoft Outlook), after they have been archived successfully. Additional information is available in chapter Deleting Emails after Archiving.

Settings Available for Outlook Only

MailStore		×	
	Archive Microsoft Outlook Settings Please configure access to Microsoft Outlook.		
	Outlook Profile:	ed in your Local Outlook Outlook 🗸	
	Archive E-mail Stor	ed in a PST File	
	File Name:		
	Cancel	< Back Next > Help	

Archive Email Stored in your Local Outlook

If multiple Outlook profiles exist, to which the user can log on to, the Outlook profile to be archived can be selected here.

Archive Email Stored in a PST File

Select this option if MailStore is to access the PST file directly. This option is described in the chapter Archiving Outlook PST Files Directly.

MailStore			×		
6	Archive Mozilla Thunderbird				
	Settings				
	Please configure access to Mozilla Thunderbird.				
	Profile:	default 👻	Browse		
	Cancel	< Back Next >	Help		

Settings Available for Mozilla Thunderbird Only

Profile: If multiple Thunderbird profiles exist, to which the user can log on to, the profile to be archived can be selected here. Alternatively, by using the *Browse* button, any directory containing Thunderbird data (e.g. from the portable version) not listed under *Profile* can be specified. Select the directory containing the file *prefs.js*.

MailStore			×
Ø	Settings	Iozilla SeaMonkey	
	Profile:	default 👻	Browse
	Cancel	< Back Next >	Help

Settings Available for Mozilla SeaMonkey Only

Profile: If multiple SeaMonkey profiles exist, to which the user can log on to, the profile to be archived can be selected here. Alternatively, by using the *Browse* button, any directory containing SeaMonkey data not listed under *Profile* can be specified. Select the directory containing the file *prefs.js*.

Starting the Archiving Process

Starting the Archiving Process Manually

On the start page of MailStore Client, click on *Archive Email* and from the list under *Saved Profiles*, select the appropriate archiving profile. Click on *Run*. After the archiving process has been executed, a protocol appears. It contains information about the volume of emails that have been archived as well as any errors that may have occurred.

This process can be repeated by the user any number of times. MailStore only archives those emails that are not yet stored in the corresponding user archive.

Automating the Archiving Process

In addition to being executed manually, archiving tasks can also be executed automatically. Additional information about this topic is available in chapter Automating the Archiving Process.

2.5 Archiving Outlook PST Files Directly

With MailStore Server, PST files can be archived directly. Contrary to archiving emails from Outlook, here you can create and execute archiving tasks independently from users and user computers. The users' individual PST files should be made available centrally, e.g. through a network share.

Please note: The computer used for archiving PST files through the MailStore Client must have a version of Outlook installed that is compatible with the PST files selected. For example, to archive an Outlook 2007 PST file, the corresponding version of Outlook needs to be installed.

Setting up archiving processes for PST files is done using archiving profiles. General information about archiving profiles is available in the chapter Working with Archiving Profiles.

Archiving a PST file that contains emails of a single user

Please note: If you don't want to archive PST files in your personal user archive only, you'll have to be logged on to MailStore Client as a MailStore Server administrator. Only a MailStore Server administrator can archive emails for other users.

For each PST file, please proceed as follows:

- In MailStore Server, click on Archive Email.
- From the *E-mail Files* category in the *Create Profile* section select *Microsoft Outlook PST files*.
- A wizard opens, guiding you through the setup process.



- Select Single User and click on OK.
- The dialog window Archive Microsoft Outlook appears.

MailStore	×
0	Archive Microsoft Outlook Settings Please configure access to Microsoft Outlook.
	 Archive E-mail Stored in your Local Outlook Outlook Profile: Archive E-mail Stored in a PST File
	File Name: C:\PST-files\Outlook.pst
	Password, if needed:
	Cancel < Back Next > Help

- Select Archive Email Stored in a PST File as source and specify the PST file to be archived. Click on Next.
 Please note: If you work with an Outlook/Exchange environment, you get better results by first opening the existing PST file in Outlook and then using the Archive Email Stored in your Local Outlook option. This way you can ensure that all existing sender and recipient addresses are correctly archived.
- If needed, adjust the settings for the List of Folders to be Archived, the filter and the Deletion Rules.

MailStore	×
	Archive Microsoft Outlook Advanced Settings Please configure access to Microsoft Outlook.
	Folders All e-mail folders. Deleted Items, Drafts, Junk E-mail and Outbox excluded. Filter Sim V Also archive unread messages
	 Only archive messages that are older than Date: 09.10.2013 00:00 ORange: 1 Months
	Delete Messages are never deleted in Microsoft Outlook.
	Cancel < Back Next > Help

• If logged on to MailStore Server as a MailStore Server-administrator, the target archive can be specified in the next step of the wizard. Select the archive of the user for whom the selected PST file is to be archived.

Target Archive Each user has his own archi for the e-mails.	ve in MailStore. Please select which archive	e to use
Login Name	Full Name	
Lessie.wilson	Bessie Wilson	
🚨 bill.burke	Bill Burke	
🚨 billie.brown	Billie Brown	E
👗 christina.thomas	Christina Thomas	
🚨 david.hollingsworth	David Hollingsworth	
🚨 david.lombard	David Lombard	
🚨 david.mora	David Mora	
1 1	David Torrez	
🐣 david.torrez		
david.torrez francisco.brown	Francisco Brown	

• In the final step you can specify a name for the new archiving profile. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Archiving a PST file that contains emails of multiple users

Please note: In order to be able to select this archiving method, you'll have to be logged on to MailStore Client as a MailStore Server administrator. Only a MailStore Server administrator can archive emails for other users.

In addition to archiving PST files that contain emails of a single user, MailStore Server can archive PST files that contain emails of multiple users, e.g. from a multidrop mailbox export. To archive such emails please proceed as follows:

- In MailStore Server, click on Archive Email.
- From the *E-mail Files* category in the *Create Profile* section select *Microsoft Outlook PST files*.
- A wizard opens, guiding you through the setup process.



- Select Multiple Users and click on OK.
- The dialog window Archive Multidrop Mailbox (Filesystem) appears.

MailStore			×	
P	Archive	Multidro	op Mailbox (File System)	
V	Settings			
			ver a copy of all sent and received e-mail box. MailStore can process such multidrop	
	Directory or P	ST File:	C:\PST-files\Outlook.pst	
			Directory PST File	
	Target Folders	s		
	Received:	User /	{u-email}/Inbox	
	Sent:	User /	{u-email}/Sent Items	
	Messages with	Messages with unknown e-mail addresses		
	Archive m	essages here:	@catchall/Unknown e-mail addresses	
	🔘 Don't arch	nive message w	ith unknown e-mail addresses	
	When e-mails	When e-mails are successfully archived		
	Delete the	Delete them in origin mailbox		
	Directory Serv	Directory Services		
	_ `		ry Services before archiving Configure	
	Cancel		< Back Next > Help	

- Select the PST file to be archived.
- Adjust any further settings such as how to handle emails with unknown addresses or asking MailStore Server to delete email files after they have been archived.
- Click on Next.
- In the final step you can specify a name for the new archiving profile. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Starting the Archiving Process

Starting the Archiving Process Manually

On the start page of MailStore Client, click on *Archive Email* and from the list under *Saved Profiles*, select the appropriate archiving profile. Click on *Run*. After the archiving process has been executed, a protocol appears. It contains information about the volume of emails that have been archived as well as any errors that may have occurred.

This process can be repeated by the user any number of times. MailStore only archives those emails that are not yet stored in the corresponding user archive.

Automating the Archiving Process

In addition to being executed manually, archiving tasks can also be executed automatically. Additional information about this topic is available in chapter Automating the Archiving Process.

2.6 Archiving Emails from External Systems (File Import)

MailStore Server can also archive the emails from applications that are not directly supported if they are available in a standardized format. With most applications it is necessary to export the emails to one of those formats first.

Using file import, MailStore Server can archive the following formats:

- EML One file per email. Often called RFC 822 or MIME format.
- MSG One file per email. Microsoft Outlook email files.
- **PST** Microsoft Outlook personal folder files.
- **MBOX** This file format is used by Mozilla Thunderbird, for example, although in this case the file ending is omitted. The MBOX file format is also used by many Unix mail servers.

Procedure for Archiving PST Files

Archiving PST files is described separately in chapter Archiving Outlook PST Files Directly.

Procedure for Archiving EML and MSG Files

Setting up archiving processes for files from the file system is done using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

Archiving Emails of a Single User

Please note: If you do not want to archive email files in your personal user archive only, you'll have to be logged on to MailStore Client as a MailStore Server administrator. Only a MailStore Server administrator can archive emails for other users.

Please proceed as follows:

- In MailStore Server, click on Archive Email.
- From the E-mail Files category in the Create Profile section select EML and MSG files.
- A wizard opens, guiding you through the setup process.

Archive EML and MSG Files				
P	Archive EML and MSG Files			
	Single User Archive the e-mail messages of a single user.			
	Multiple Users Archive the e-mail messages of multiple or all users. The target user archives are determined by analyzing the e-mail headers.			
	MailStore Export Re-archive EML files generated by the MailStore Export.			
	OK Cancel Help			

- Select Single User and click on OK.
- The dialog window Archive EML and MSG files appears.

MailStore		×	
M		EML and MSG Files	
	Settings		
	Please configure	e access to EML and MSG Files.	
	Folder:	C:\Email-files Browse	
		☑ Include Subfolders	
		Read MailStore Headers	
		Restores the original folder structure of e-mail messages that were exported by MailStore.	
		Custom File Extensions	
		eml msg	
	Cancel	< Back Next > Help	

- Select the folder to be archived. All email files in this folder will be archived.
- If desired, adjust the advanced settings or simply click Next.
 - Include Subfolders:

In addition to the emails in the selected folder also those located in any subfolders will be archived.

- Read MailStore Headers: RFC 822 files created by the MailStore Server-specific export process contain additional information such as the source folder. Set the checkmark if this information should be taken into account.
- **Custom File Extensions:** Here you can make appropriate entries if the files to be archived are in EML or MSG format but have a different file extension.
- If needed, adjust the settings for the List of Folders to be Archived, the filter and the Deletion Rules.

MailStore	×			
P	Archive EML and MSG Files Advanced Settings Please configure access to EML and MSG Files.			
	Folders			
	 Also archive unread messages Only archive messages that are older than Date: 31.05.2011 00:00 UTC 			
	 Range: 1 months Delete Messages are never deleted in EML and MSG Files 			
	Cancel < Back Next > Help			

• If logged on to MailStore Server as a MailStore Server-administrator, the target archive can be specified in the next step of the wizard. Select the archive of the user for whom the selected files are to be archived.

P	Archive EML an Target Archive Each user has his own arch for the e-mails.	nd MSG Files	to use
	Login Name	Full Name	•
	🚨 maria.wittman	Maria Wittman	_
	8 melany.holmes	Melany Holmes	
	Melvin.lutes	Melvin Lutes	
	👗 michael.martinez	Michael Martinez	
	8 michael.wright	Michael Wright	
	athaniel.dobbins	Nathaniel Dobbins	
	Aphillip.edson	Phillip Edson	=
	🚨 rafael.redman	Rafael Redman	
	randall.schuster	Randall Schuster	
	rebecca.ingles	Rebecca Ingles	-
	Create a New User	< Back Next > Hel;	2

• In the final step you can specify a name for the new archiving profile. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Archiving Emails of Multiple Users

Please note: In order to be able to select this archiving method, you'll have to be logged on to MailStore Client as a MailStore Server administrator. Only a MailStore Server administrator can archive emails for other users.

In addition to archiving email files of a single user, MailStore Server can archive email files of multiple users from a single directory; such emails may have been exported from a multidrop mailbox. To archive such emails please proceed as follows:

- In MailStore Server, click on Archive Email.
- From the E-mail Files category in the Create Profile section select EML and MSG files.
- A wizard opens, guiding you through the setup process.



- Select Multiple Users and click on OK.
- The dialog window Archive Multidrop Mailbox (Filesystem) appears.

MailStore			X	
FI	Archive	Multidro	op Mailbox (File System)	
*	Settings			
			rer a copy of all sent and received e-mail box. MailStore can process such multidrop	
	Directory or PS	ST File:	C: \Email-files	
			Directory PST File	
	Target Folders	, ———		
	Received:	User /	{u-email}/Inbox	
	Sent:	User /	{u-email}/Sent Items	
	Messages with	unknown e-ma	ail addresses	
	Archive messages here: @catchall/Unknown e-mail addresses		@catchall/Unknown e-mail addresses	
	🔘 Don't archi	ive message wi	th unknown e-mail addresses	
	When e-mails a	When e-mails are successfully archived		
	Delete the	m in origin maill	box	
	Directory Servi	ices		
	Synchroniz	e with Director	y Services before archiving Configure	
	Cancel		< Back Next > Help	

- Select the folder with the email files to be archived.
- Adjust any further settings such as how to handle emails with unknown addresses or asking MailStore Server to delete email files after they have been archived.
- Click on Next.

• In the final step you can specify a name for the new archiving profile. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Archiving Emails from a MailStore Export

Please note: In order to be able to select this archiving method, you'll have to be logged on to MailStore Client as a MailStore Server administrator. Only a MailStore Server administrator can archive emails for other users.

To archive EML files which have been created by a MailStore Export, the correct options have been pre-selected. This provides an easy way to file emails exported from MailStore Server into the correct user archives and folders again.

Please proceed as follows:

- In MailStore Server, click on Archive Email.
- From the *E-mail Files* category in the *Create Profile* section select *EML and MSG files*.
- A wizard opens, guiding you through the setup process.

Archive EML and MSG Files			
P	Archive EML and MSG Files		
	Single User Archive the e-mail messages of a single user.		
	Multiple Users Archive the e-mail messages of multiple or all users. The target user archives are determined by analyzing the e-mail headers.		
	MailStore Export Re-archive EML files generated by the MailStore Export.		
	OK Cancel Help		

- Select MailStore Export and click on OK.
- The dialog window Archive EML and MSG files appears.

MailStore		×
P	Settings	EML and MSG Files
	Folder:	C:\Email-files Browse Include Subfolders Read MailStore Headers Restores the original folder structure of e-mail messages that were exported by MailStore. Custom File Extensions eml
	Cancel	< Back Next > Help

- Select the folder to be archived. All email files in this folder will be archived.
- If desired, adjust the advanced settings or simply click Next.
 - Include Subfolders:

In addition to the emails in the selected folder also those located in any subfolders will be archived.

• Read MailStore Headers:

RFC 822 (EML) files created by the MailStore Server-specific export process contain additional information about the source archives and folders. This information allows to file emails exported from MailStore Server into the correct user archives and folders when being rearchived. Non-existent archives and folders will be created automatically.

- Custom File Extensions: Here you can make appropriate entries if the files to be archived are in EML or MSG format but have a different file extension.
- If needed, adjust the settings for the List of Folders to be Archived, the filter and the Deletion Rules.

H)	Archive EML and MSG Files Advanced Settings Please configure access to EML and MSG Files.
	Folders
	Inter I
	○ Date: 31.05.2011 ▼ 00:00 ▲ □ UTC ○ Range: 1 months ▼
	Delete Kessages are never deleted in EML and MSG Files.
	Cancel < Back Next > Help

• You can specify the target archive in the next step of the wizard. Select the archive of the user for whom the selected files are to be archived. The target archive will be ignored if the option *Read MailStore Headers* has been selected and the email to be archived contains such headers.

∇	Archive EML ar Target Archive Each user has his own arch for the e-mails.	ive in MailStore. Please select which archive	to use
	Login Name	Full Name	•
	amaria.wittman	Maria Wittman	
	Melany.holmes	Melany Holmes	
	Melvin.lutes	Melvin Lutes	
	👗 michael.martinez	Michael Martinez	
	8 michael.wright	Michael Wright	
	athaniel.dobbins	Nathaniel Dobbins	
	A phillip.edson	Phillip Edson	=
	🚨 rafael.redman	Rafael Redman	
	andall.schuster	Randall Schuster	
	Rebecca.ingles	Rebecca Ingles	-
	Create a New User	< Back Next > He	

• In the final step you can specify a name for the new archiving profile. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Procedure for Archiving MBOX Files

Setting up the archiving process for files from the file system is done using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

Please note: If you do not want to archive email files in your personal user archive only, you'll have to be logged on to MailStore Client as a MailStore Server administrator. Only a MailStore Server administrator can archive emails for other users.

Please proceed as follows:

- In MailStore Server, click on Archive Email.
- From the *Email Files* list in the *Create Profile* area of the application window select *MBOX File*.
- A wizard opens, guiding you through the setup process.
- Select the MBOX file to be archived.

MailStore		×
	Archive N	1BOX File
	Settings	
	Please configure	access to MBOX File.
	MBOX File:	C:\/MBOX-Files\barabara.coe.mbox Browse
	Cancel	< Back Next > Help

• If logged on to MailStore Server as administrator, the target archive can be specified. Select the archive of the user for whom the selected file is to be archived.

MailStore	Archive MBOX I Target Archive Each user has his own archi for the e-mails.	File ve in MailStore. Please select which archive to	X) use
	Login Name	Full Name	•
	abby.hernandez	Abby Hernandez	=
	admin 🕹	Administrator	
	alexis.page	Alexis Page	
	🚨 andrea.eastman	Andrea Eastman	
	👗 barbara.coe	Barbara Coe	
	🚨 barbara.pelfrey	Barbara Pelfrey	
	becky.stephenson	Becky Stephenson	
	🚨 belinda.avendano	Belinda Avendano	
	& bernard.hamrick	Bernard Hamrick	
	& bessie.wilson	Bessie Wilson	
	🚨 bill.burke	Bill Burke	-
	Create a New User		
	Cancel	< Back Next > Help	

• In the final step you can specify a name for the new archiving profile. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Archiving with Drag & Drop

Files can also be archived using Drag & Drop: Simply drag the appropriate folder containing EML files or the appropriate MBOX file into the list of saved settings to create an archiving profile for this process directly.

Starting the Archiving Process

Starting the Archiving Process Manually

On the start page of MailStore Client, click on *Archive Email* and from the list under *Saved Profiles*, select the appropriate archiving profile. Click on *Run*. After the archiving process has been executed, a protocol appears. It contains information about the volume of emails that have been archived as well as any errors that may have occurred.

This process can be repeated by the user any number of times. MailStore only archives those emails that are not yet stored in the corresponding user archive.

Automating the Archiving Process

In addition to being executed manually, archiving tasks can also be executed automatically. Additional information about this topic is available in chapter Automating the Archiving Process.

2.7 Archiving Server Mailboxes

This chapter describes how a single mailbox located on any email server can be archived using the IMAP or POP3 protocols. To archive multiple mailboxes in one step, Batch-archiving IMAP Mailboxes can be used. If the mailbox is a multidrop mailboxes, also called catchall mailboxes, that contains emails for more than one person please read the chapter Archiving IMAP and POP3 Multidrop Mailboxes

Important: This article describes the general procedure independent from the e-mail server used. Please find e-mail server specific information in our Implementation Guides.

Required Information

In order to archive a server mailbox, MailStore requires the following data:

- The server name (e.g. imap.myserver.com).
- The protocol used (e.g. IMAP-TLS).
- The user name. Often times, the full email address or the local part (left of the @ character) is used.
- The password.

IMAP or POP3?

When choosing between IMAP and POP3, we strongly recommend using IMAP. With IMAP, all or specific folders of the mailbox can be archived. POP3 does not "recognize" any folders; because of this it is likely that, with most service providers, only the inbox will be archived.

Setting Up the Archiving Process

By following the procedure described here, a single mailbox can be archived for a specific MailStore user. The archiving process can be executed manually or automatically.

Setting up archiving processes for IMAP or POP3 mailboxes is done using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

For each mailbox, please proceed as follows:

- Users can only archive their own mailboxes to their personal user archive. To archive the emails of other users, you have to be logged on to MailStore Client as MailStore administrator. Only MailStore administrators can archive the emails of other users.
- In MailStore, click on Archive Email.
- To create a new archiving profile, select *Other Server via IMAP/POP3* from the *Email Servers* list in the *Create Profile* area of the application window.
- A wizard opens guiding you through the setup process.

	Archive E-mail Server via IMAP/P	OP3
ø	Archive E-mail Server via IMAP/POP3 Single IMAP Mailbox	Online Help We provide online help for a variety of e-mail servers. Should your e-mail server not appear in the list, please contact MailStore Support.
	Archive a single IMAP mailbox. Single POP3 Mailbox Archive a single POP3 mailbox (Inbox only). Multiple Mailboxes (Master Password) Archive multiple IMAP mailboxes using a master password. Multiple Mailboxes (CSV File) Archive multiple IMAP mailboxes listed in a CSV text file.	Image: wide of the server ∧ Image: wide of the server ∞ Image: wide
	Multidrop Mailbox Archive an IMAP or POP3 multidrop mailbox. OK Cancel Help	Postfix Qmail Scalix Perform an online update of this list

- Select *Single Mailbox* and click on *OK*.
- Fill out the fields *Email Address*, *Host*, *Access via*, *User Name* and *Password*. Click on *Test* to verify the data entered.

For the IMAP-TLS and IMAP-SSL protocols only: You have the option to ignore SSL security warnings. Generally, these warnings appear if an unofficial certificate is used on the server.

		MailStore Server	x
í	Archive I	MAP Mailbox	
	Settings		
	Please configure	access to IMAP Mailbox.	
		· · · · · · · · · · · · · · · · · · ·	
	E-mail Address:	barbara.ross@example.com	
	Host:	imap.example.com	
	Access via:	IMAP-TLS V Ignore SSL Warnings	
	User Name:	barbara.ross@example.com	
	Password:	•••••	Test
	Cancel	< Back Next >	Help

- Click on Next.
- Customize the list of folders to be archived (IMAP only), the filter (IMAP only) and the deletion rules. By default, no emails will be deleted from a mailbox. The timeout value only has to be adjusted as needed (e.g. with very slow servers).

	MailStore Server ×	
	Archive IMAP Mailbox	
~	Advanced Settings	
	Please configure access to IMAP Mailbox.	
	Folders	
	All e-mail folders	
	Filter	
	Also archive unread messages	
	Only archive messages that are older than	
	○ Date: 6/30/2014 ∨ 12:00 AM	
	◯ Range: 1 months ∨	
	Delete	
	💥 Messages are never deleted in IMAP Mailbox. 🛛	
	Connection	
	Timeout: 300 Seconds	
	Cancel < Back Next > Help	

- Click on Next.
- If logged on to MailStore Server as administrator, the target archive can be specified at the next step. Select the archive of the user for whom the mailbox is to be archived.

Targ Each	chive IMAP N et Archive user has his own archi ie e-mails.	1ailbox ve in MailStore. Please select which are	chive to use
Logi	n Name	Full Name	^
2	ann.bozeman	Ann Bozeman	
2	anna.avery	Anna Avery	
2	arnold.vela	Arnold Vela	
2	barbara.childress	Barbara Childress	
8	barbara.ross	Barbara Ross	
	barton.stevens	Barton Stevens	
	becky.martin	Becky Martin	
2	ben.christy	Ben Christy	
2	bernice.arnold	Bernice Arnold	
2	beverly.darrington	Beverly Darrington	
2	blaine.robinson	Blaine Robinson	
	bob.quesenberry	Bob Quesenberry	
2	bobbie.lebowitz	Bobbie Lebowitz	~
	Create a New User		

• At the last step, a name for the new archiving profile can be specified. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Starting the Archiving Process

Starting the Archiving Process Manually

On the start page of MailStore Client, click on *Archive Email* and from the list under *Saved Profiles*, select the appropriate archiving profile. Click on *Run*. After the archiving process has been executed, a protocol appears. It contains information about the volume of emails that have been archived as well as any errors that may have occurred.

This process can be repeated by the user any number of times. MailStore only archives those emails that are not yet stored in the corresponding user archive.

Automating the Archiving Process

In addition to being executed manually, archiving tasks can also be executed automatically. Additional information about this topic is available in chapter Automating the Archiving Process.

2.8 Batch-archiving IMAP Mailboxes

This chapter describes how multiple IMAP mailboxes can be archived in one step.

Important: This article describes the general procedure independent from the e-mail server used. Please find e-mail server specific information in our Implementation Guides.

Multiple IMAP Mailboxes (Master Password)

MailStore supports archiving multiple IMAP mailboxes by means of a privileged user and the procedure to log in to an IMAP server as specified in *RFC 4616 - The PLAIN SASL Mechanism*. In addition to the privileged user's user name and password, the primary email address (as mailbox name) of the user whose emails are to be archived is passed on in the process as well.

You can learn from your email server's manufacturer if your email server supports this type of login and what the prerequisites are.

Setting up the Archiving Process

Archiving processes for IMAP or POP3 mailboxes are set up using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

Please proceed as follows:

- Log on as MailStore administrator using MailStore Client.
- In MailStore, click on Archive Email.
- From the list of email servers under Create Profile, select Other Server via IMAP/POP3.
- A wizard opens to assist in specifying the archiving settings.

Archive E-ma	Il Server via IMAP/POP3	×
	Archive E-mail Server via IMAP/POP3	Online Help We provide online help for a variety of e-mail
	Single IMAP Mailbox Archive a single IMAP mailbox.	servers. Should your e-mail server not appear in the list, please contact MailStore Support.
	Single POP3 Mailbox Archive a single POP3 mailbox (Inbox only).	(No own e-mail server)
	Multiple Mailboxes (Master Password) Archive multiple IMAP mailboxes using a master password.	www.server www.server and the server was served by the server and the server beginning of the server of the serv
	Multiple Mailboxes (CSV File) Archive multiple IMAP mailboxes listed in a CSV text file.	Verio Connect (Kerio MailServer)
	Multidrop Mailbox Archive an IMAP or POP3 multidrop mailbox.	Image: Scalix
	OK Cancel Help	Perform an online update of this list

Hint: The Online Help gives you direct access to the respective Implementation Guides.

• Select Multiple IMAP Mailboxes (Master Password) and click on OK.

MailStore		×
	Archive	Multiple Mailboxes
~	Settings	
	Please configu	re access to Multiple Mailboxes.
	Host:	imap.orange-2k10.local
	Access via:	IMAP 🔻
	User Name:	admin
	Password:	•••••
	Special Folde	ers (optional)
	Sent Items:	Sent
	Cancel	< Back Next > Help

• Fill out the fields *Host* and *Access via* and enter the login data of the privileged user under *User Name* and *Password*.

Only with IMAP-TLS and IMAP-SSL: If you are using an unofficial certificate on the email server, select the option to *Ignore SSL Security Warnings*.

- In the Sent Items field you can enter the name of the folder containing sent emails.
- Click on Next.

MailStore	×
	Archive Multiple Mailboxes
~	Advanced Settings
	Please configure access to Multiple Mailboxes.
	Folders
	All e-mail folders
	Filter
	Also archive unread messages
	Only archive messages that are older than
	○ Date: 02.05.2012 ▼ 00:00 ➡ □ UTC
	○ Range: 1 months ▼
	Delete
	X Messages are never deleted in Multiple Mailboxes.
	Connection
	Timeout: 300 Seconds
	Batch Processing
	Maximum number of concurrent archiving jobs: 5 (max 25)
	Cancel < Back Next > Help

- If needed, customize the list of folders to be archived, the deletion rules, the filters, the timeout value in seconds and the maximum number of archiving jobs to be executed simultaneously. The timeout value only has to be adjusted if needed (e.g. when using a very slow server).
- Click on Next.
- Select the users whose mailboxes are to be archived.

MailStore	×
	Archive Multiple Mailboxes
•	Select Users
	Please select the users whose mailboxes should be archived. Only users with configured e-mail addresses are listed here.
	Ill users with configured e-mail address
	All users except the following:
	Only the following users:
	User Name E-mail Address
	Image: Section 2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
	Synchronize with Directory Services before archiving Configure
	Cancel < Back Next > Help

The following options are available:

• All users with configured email address

Choose this option to archive the mailboxes of all users who are set up, along with their email addresses, in MailStore's user management.

• All users except the following

Choose this option to exclude individual users (and thereby their IMAP mailboxes) from the archiving process, using the list of users below.

- Only the following users Choose this option to include individual users (and thereby their IMAP mailboxes) in the archiving process, using the list of users below. Only the mailboxes of those users explicitly specified will be archived.
- Synchronize with Directory Services before archiving

If selected, the MailStore user list will be synchronized with the configured directory service before any archiving process is executed. This has the advantage that, for example, new employees will be created as MailStore users before archiving, so once the archiving process is executed, their IMAP mailbox is archived automatically as well. This option is especially recommended when the archiving process is to be executed automatically.

- Click on Next.
- In the last step, a *name for the archiving profile* can be specified. After clicking *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately or automatically, if desired.

Multiple IMAP Mailboxes (CSV File)

Archiving multiple IMAP mailboxes based on a CSV file is described below. Use this procedure if your IMAP server does not support any of the authentication methods described under *Multiple IMAP Mailboxes (Master Password)*

Preparation: Creating a CSV File

In order to set up batch archiving of multiple IMAP mailboxes, first, a CSV file needs to be created. For this, a Microsoft Excel spreadsheet can be used, for example:

	А	В	С	D
1	IMAP user name	IMAP password	E-mail address (optional)	MailStore user name (optional)
2	a.dole@domain.com	top!secret2	a.dole@domain.com	a.dole
3	k.park@domain.com	!secret4top	k.park@domain.com	k.park
4	l.paulson@domain.com	pot1tresec\$	l.paulson@domain.com	I.paulson
5				

Set up the columns as shown above. Please keep in mind that the headings (e.g. "IMAP user name") must be in place but their notation may differ. Beneath the headings, enter a row for each mailbox to be archived:

IMAP user name and IMAP password

These entries are mandatory for MailStore to be able to access the mailbox.

Email address (optional)

If entered, MailStore will label the folder for the respective mailbox in the tree structure of the archive with the email address specified.

MailStore user name (optional)

If entered, MailStore will archive the respective mailbox for each MailStore user specified (store the emails in the appropriate user archive). If the user does not yet exist, a user will be created automatically. If this field is left blank, a new MailStore user is created automatically and labeled with the IMAP user name specified.

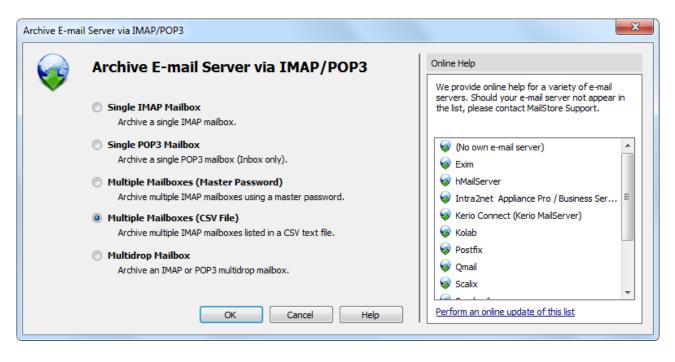
This way, any number of mailboxes of an email server may be entered. When finished, save the file in .csv format (if Microsoft Excel is used via the *Save As* function).

Setting Up the Archiving Process

Setting up archiving processes for IMAP or POP3 mailboxes is done using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

Please proceed as follows:

- Log on as MailStore administrator using MailStore Client.
- In MailStore, click on Archive Email.
- To create a new archiving profile, select *Other Server via IMAP/POP3* from the *Email Servers* list in *Create Profile* area of the application window.
- A wizard opens guiding you through the setup process.



- Select Multiple Mailboxes (CSV File) and click on OK.
- Fill out the fields *Host* and *Access via*, and under *CSV File* enter the path of the new CSV file (created as described above). This file contains the access information for the mailboxes to be archived. Under *Special Folder (optional)* you may enter the name of the IMAP folder containing sent messages.

For the IMAP-TLS and IMAP-SSL protocols only: You have the option to *Ignore SSL Security Warnings*. Generally, these warnings appear if an unofficial certificate is used on the server.

MailStore			×		
	Archive 1	IMAP Mailboxes			
\mathbf{v}	Settings	Settings			
	Please configure	Please configure access to IMAP Mailboxes.			
	Host:	imap.orange-2k10.local			
	Access via:	IMAP 🔻			
	be archi more. • IMAP • IMAP • E-mai	re needs a CSV file which lists all IMAP mailbo ived. The CSV file has the following fields. C user name password l address (optional) tore user name (optional)			
	CSV File:	C:\IMAP2MailStore.csv	Browse		
	Special Folde	rs (optional)			
	Sent Items:	Sent			
	Cancel	< Back Next >	Help		

- Click on Next.
- If needed, adjust the list of folders to be archived, the deletion rules, the filter, the timeout value in seconds and the maximum number of archiving jobs to be executed simultaneously. The timeout value only has to be adjusted if needed (e.g. when using a very slow server).

MailStore	×
	Archive IMAP Mailboxes
~	Advanced Settings
	Please configure access to IMAP Mailboxes.
	Folders
	All e-mail folders
	Filter 🛛 📝 Also archive unread messages
	Only archive messages that are older than
	○ Date: 31.05.2011 ▼ 00:00 ▲ UTC
	○ Range: 1 months ▼
	Delete Messages are never deleted in IMAP Mailboxes.
	Connection
	ar micola oconda
	Cancel < Back Next > Help

- Click on Next.
- At the last step, a name for the new archiving profile can be specified. After clicking on *Finish*, the archiving profile will be listed under *Saved Settings (Profiles)* and can be run immediately, if desired.

Starting the Archiving Process

Starting the Archiving Process Manually

On the start page of MailStore Client, click on *Archive Email* and from the list under *Saved Profiles*, select the appropriate archiving profile. Click on *Run*. After the archiving process has been executed, a protocol appears. It contains information about the volume of emails that have been archived as well as any errors that may have occurred.

This process can be repeated by the user any number of times. MailStore only archives those emails that are not yet stored in the corresponding user archive.

Automating the Archiving Process

In addition to being executed manually, archiving tasks can also be executed automatically. Additional information about this topic is available in chapter Automating the Archiving Process.

2.9 Archiving IMAP and POP3 Multidrop Mailboxes

In this chapter, learn how to archive multidrop mailboxes. Multidrop mailboxes, also called catchall mailboxes, contain emails for more than one person. Generally, all emails for a certain domain are collected therein to be retrieved by an internal email server; the server then distributes the emails among the appropriate user mailboxes. Multidrop mailboxes are also used when sending a copy of all emails to a single mailbox on the email server; MailStore extracts the sender and recipient information from the email headers to assign them to the appropriate users. By using this type of mailboxes it is possible to archive all incoming and outgoing emails.

Important: This article describes the general procedure independent from the e-mail server used. Please find e-mail server specific information in our Implementation Guides.

Setting up the Archiving Process

By following the procedure described here, an IMAP or POP3 multidrop mailbox can be archived. The archiving process can be executed manually or automatically.

Setting up archiving processes for multidrop mailboxes is done using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

Please proceed as follows:

- Log on as MailStore administrator using MailStore Client.
- In MailStore, click on Archive Email.
- To create a new archiving profile, select *Other Server via IMAP/POP3* from the *Email Server* list in the *Create Profile* area of the application window.
- A wizard opens guiding you through the setup process.

Archive E-mail Server via IMAP/F	POP3 ×
Archive E-mail Server via IMAP/POP3	Online Help We provide online help for a variety of e-mail
 Single IMAP Mailbox Archive a single IMAP mailbox. 	servers. Should your e-mail server not appear in the list, please contact MailStore Support.
 Single POP3 Mailbox Archive a single POP3 mailbox (Inbox only). Multiple Mailboxes (Master Password) Archive multiple IMAP mailboxes using a master password. Multiple Mailboxes (CSV File) 	(No own e-mail server) Exim Find the server Find the server Find the server Find the server Kerio Connect (Kerio MailServer)
Archive multiple IMAP mailboxes listed in a CSV text file. Multidrop Mailbox Archive an IMAP or POP3 multidrop mailbox. OK Cancel Help	 Kolab Postfix Qmail Scalix Perform an online update of this list

- Select Multidrop Mailbox and click OK.
- Fill out the fields Access via, Host, Username and Password. Click on Test to verify the data entered.

For the TLS and SSL protocols only: You have the option to *ignore SSL warnings*. Generally, these warnings appear if an unofficial certificate is used on the server.

MailStore Server				
	Archive Multidrop Mailbox			
~	Settings			
			ver a copy of all sent and receiv box. MailStore can process such	
	Access via:	IMAP-TLS	✓ Ignore SSL Warnings	
	Host: imap.example.com			
	User Name: journal@example.com			
	Password:	Password: Test		Test
	Target Folders			
	Received:	User /	{u-email}/INBOX	
	Sent:	User /	{u-email}/Sent Items	
	Messages with unknown e-mail addresses			
	Archive messages here: @catchall/Unknown e-mail addresses			
	O Don't archive message with unknown e-mail addresses			
	When e-mails are successfully archived			
	Delete them in origin mailbox			
	Directory Services			
	Synchronize with Directory Services before archiving Configure			
	Cancel		< Back Next >	Help

• Adjust any further settings such as how to handle emails with unknown addresses or asking MailStore to delete emails after they have been archived. The latter option is especially sensible when dealing with mailboxes that are exclusively used for archiving.

Notice: If you are additionally archiving messages from the users mailboxes, you have to set the target folder names here to the folder names that match the names that were created by the user mailbox archiving profiles. Otherwise, additional or similar folders could be created in the users' archives. The folder names are case-sensitive.

- If the option *Synchronize with Directory Services before archiving* is enabled, the MailStore user list will be synchronized with configured directory service before the archiving process actually runs. This has the advantage that, for example, new employees will be created as MailStore users before archiving which enables MailStore to sort their emails into the correct archives.
- Click on Next.
- The timeout value only has to be adjusted on a case-by-case basis (e.g. with very slow servers).
- Click on Next.
- At the last step, select a name for the new archiving profile. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately or automatically, if desired.

Starting the Archiving Process

Starting the Archiving Process Manually

On the start page of MailStore Client, click on *Archive Email* and from the list under *Saved Profiles*, select the appropriate archiving profile. Click on *Run*. After the archiving process has been executed, a protocol appears. It contains information about the volume of emails that have been archived as well as any errors that may have occurred.

This process can be repeated by the user any number of times. MailStore only archives those emails that are not yet stored in the corresponding user archive.

Automating the Archiving Process

In addition to being executed manually, archiving tasks can also be executed automatically. Additional information about this topic is available in chapter Automating the Archiving Process.



Accessing the Archive

3.1 Accessing the Archive

MailStore provides several ways to access archived emails:

Accessing the Archive with the MailStore Client Software

MailStore Client is a Windows application that can be installed on any number of user computers (depending on the license purchased). Of all the options for accessing the archive, MailStore Client provides the largest range of functions: Not only can users browse and view their emails but, depending on the privileges assigned to them, set up and execute archiving and exporting tasks.

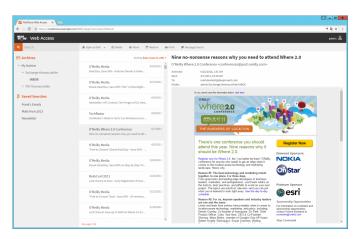
MailStore Client Manual



Accessing the Archive with MailStore Web Access

The responsive MailStore Web Access provides access to the archive using an internet browser. This has the advantage that no additional software needs to be installed on the user machines. In addition to browsing and viewing emails, web access also offers access through the folder structure and functions for restoring emails from the archive.

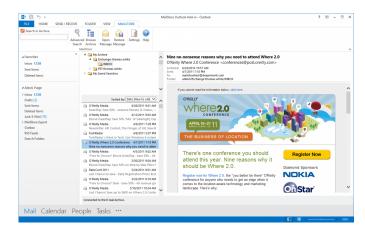
MailStore Web Access Manual



Accessing the Archive with the Microsoft Outlook Integration

With a MailStore add-in, users can access the archive directly from Microsoft Outlook.

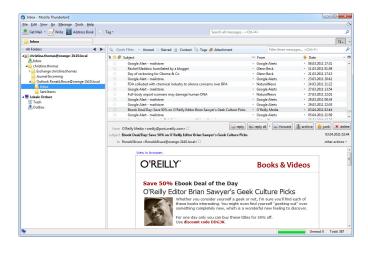
MailStore Outlook Add-in Manual



Access Using Other Email Clients

MailStore Server provides an integrated IMAP server, that offers you read-only access to the archive for any IMAP capable email client. Especially for alternative email clients (Mozilla Thunderbird) or operating systems (e.g. MacOS or Linux), as well as for mobile platforms such as Android, IPhone or Symbian, this is a very convenient way of accessing the archive.

MailStore Integrated IMAP Server Manual



3.2 Accessing the Archive with the MailStore Client software

Installation & Update

The MailStore Client setup file that matches your MailStore Server version is stored on the MailStore Server machine. Follow the *Install MailStore Client on other Computers* link on your desktop and copy the corresponding setup file to the client computer.

It is a regular Windows setup program, that can by executed on the appropriate client computer by double-clicking on the setup file. Just follow on-screen instructions.

Notice: Alternatively to installing the MailStore Client application manually, you can also deploy it to the client computer though the Active Directories Group Policy feature. More information on that can be found in the article MailStore Client Deployment

If an update is installed on the MailStore Server computer, MailStore Client updates itself automatically on first login to stay compatible with MailStore Server. Therefore a re-installation of MailStore Client is usually not required.

Starting and Login

Start MailStore Client by using the appropriate link on the desktop. The window *Connect to E-mail Archive* appears.

Enter the hostname or IP address of the computer on which the MailStore Server Service is installed into *Server Name*. Be aware, that the pre-filled entry *localhost* only works if the MailStore Client is run from the same machine where the MailStore Server Service is installed. Click *OK* to connect to MailStore Server. You may be asked to trust the MailStore Server; click *OK* here.

Language: English Server Name: mailstore.example.com Always connect to this server	Connect to E-mail Archive
OK Cancel	 Mailstore.example.com Always connect to this server OK Cancel

Hint: Did you activate the option

Always connect to this server and you want to change the destination server later? Hold the Shift key pressed while opening MailStore Client.

The login window appears.

Enter the username and password of a MailStore administrator (*admin*) or a normal MailStore user into the User Name and Password fields and click OK.

8	MailStore Login	<
MAIL ST _e re	English	
Authentication: User Name: Password:	Standard Authentication barbara.ross Transformed Remember Password OK Cancel Help]

The MailStore Folder Structure

For each user, MailStore creates a folder on the highest level of the folder structure which corresponds to the archive of the respective user. It contains all emails that were archived for this user and is labeled *My Archive*.

If the user has access to the archives of other MailStore users (as MailStore administrator, for example), their folders are listed as *Archive of <User Name>* under the top level folder *Other Archives*

Below these main folders, the individual email sources (e.g. Microsoft Outlook or Exchange mailboxes) and their folder structures (e.g. *Inbox*) are listed.

Notice: For MailStore administrators, accessing the archives of other users via the folder structure is blocked by default; this setting can be changed in the compliance settings. Additionally, MailStore administrators can manage archives via the Archives page.

Deleting Folders

Folders and the emails contained therein can only be deleted after the appropriate user privileges have been assigned explicitly by the administrator. If the folder to be deleted contains any subfolders, they will be deleted as well.

Moving, Renaming, and Creating Folders Manually

Within MailStore, folders can be moved, renamed or created. Regular users can only do this within their own user archive, while MailStore administrators can move and rename folders beyond the boundaries of user archives.During the archiving process, MailStore adopts the folder structure and the folder names of the source (e.g. Microsoft Outlook).



MailStore sorts all archived email into MailStore's own folder structure. Below the main folders, the individual email sources (e.g. Microsoft Outlook or Exchange mailboxes) and their folder structures (e.g. *Inbox*) are listed.

Viewing the Emails in a Folder

To view the emails in a folder, simply click on the folder name. The emails will be listed below the folder structure.

Click on the text *Sorted by: <value>* to change the order in which emails are displayed. Emails can be sorted according to:

- Date
- From/To (sender/recipient of the email)
- Subject

Click on the Field to the right of *Sorted by* ("New to Old" in the screenshot) to reverse the order in which emails are arranged. By default, the latest email is displayed first.

Refreshing the View

To refresh the list of folders, click on a folder and press F5 on your keyboard.

Click on the folder again to refresh the list of emails.

Starting an Advanced Search in a Folder

To start an advanced search in a folder, right click on the folder and select *Search here...*. The advanced search is shown and the folder is preselected.

INBOX		
Sorted by: Date	New to old	
Google Alerts Google Alert - mailstore	9/7/2010	
Google Alerts Google Alert - mailstore	9/5/2010	
O'Reilly Media Free Live Webcast - Tapwor	9/4/2010 thy: Desi	_
TechRadar TechRadar's Weird Week in	9/3/2010 Tech +	
Google Alerts Google Alert - mailstore	9/3/2010	
O'Reilly Media New Online Course - Pythor	9/2/2010 1 2: Getti	
Google Alerts Google Alert - mailstore	9/2/2010	
Web 2.0 Expo New York Increase ROI on Your Web	9/1/2010 2.0 Mark	
Google Alerts Google Alert - mailstore	8/28/2010	
TechRadar TechRadar's Weird Week in	8/27/2010 Tech +	
Google Alerts Google Alert - mailstore	8/27/2010	
Google Alerts Google Alert - mailstore	8/26/2010	
Web 2.0 Expo New York Jumpstart Your Skills with a	8/25/2010 Full Conf	
Google Alerts Google Alert - mailstore	8/24/2010	
O'Reilly Media Free Online Course: Getting	8/23/2010 the Most	
Google Alerts Google Alert - mailstore	8/23/2010	
Google Alerts Google Alert - mailstore	8/22/2010	

Quick Search

With quick search you can browse all emails located in the archives you have access to. This feature is especially suitable for simple queries; alternatively, the advanced search can be used.

Using Quick Search

The input field is located in the upper left part of the MailStore Client. Simply enter one or more keywords and press *ENTER*. The search results are displayed. Keywords which appear in the header or the subject line are highlighted.

Searching for Word Fragments

To display all emails containing a word with a particular fragment, use the wildcard character (*). For example:

```
auto*
```

will return auto, automatic, automobile etc.

*example.com

will return all email addresses and domains of *example.com*.

firstname.lastname*

will return all email addresses of firstname.lastname.

Searching for Words with unknown letters

To view all emails containing a word where you do not know how to spell it correctly, you can use the question mark (?). For example

Me?er

would locate Meier and Meyer, but not Maier.

The question mark (?) cannot be used at the beginning of a word or at the end of a word, use the wildcard character (*) instead.

Searching for Phrases

To search for words appearing consecutively and in a specific order, use quotation marks (""). For example:

```
"Microsoft Windows"
```

will return the text Microsoft Windows but not Microsoft Works or Windows 95.

Narrowing by Fields

A search for keywords or phrases can be limited to specific fields. For example:

```
subject:Newsonly in Subjectfrom:john@mailstore.comonly in Fromto:michael@mailstore.comonly in Tocc:lisa@mailstore.comonly in Ccbcc:customers@mailstore.comonly in Bccbcontent:billingonly in Body of messageacontent:billingonly in Attachments of message
```

Excluding Words

To narrow a search, you may want to specify words which must not be present in the emails. To exclude words from the search results, prepend the word with the minus character (-). For example:

ZDNet -download-tip

returns all emails from ZDNet which do not contain download-tip.

Combining Search Options

Any of the search options described above can be combined. For example:

ZDNET - "Daily Update"

returns all emails from ZDNet which do not contain the consecutive words Daily Update.

from:ZDNET bcontent:MailStore

returns all emails from ZDNET which have MailStore somewhere in their message body.

from:billing@example.com acontent:bill

returns all emails from billing@example.com which have bill in any attachment.

to:recruiting@example.com -sales

returns all emails to recruiting@example.com which do not have sales in any part of the email.

from:billing@example.com to:myaddress@company.tld acontent:bill -subject:admonition

returns all message from *billing@example.com* to *myaddress@company.tld* which have *bill* in any attachment but do not have *admonition* in the subject.

About Special Characters

Words inside indexed emails or attachments which are a combination of alphanumeric (letters, digits) and non-alphanumeric characters (white space, line break, delimiter or other control characters), may be returned in search results when searching for the alphanumerical part only.

For instance, when searching for firstname, firstname.lastname and lastname, e-mails containing the word firstname.lastname will be returned.

Commonly occurring characters are:

- Period (.)
- Comma (,)
- Colon (;)
- Hyphen (-)
- Underscore (_)
- AT-Sign (@)
- Slash & Backslash (/,\)
- Null character (NUL)

Advanced Search

With MailStore's integrated advanced search, complex queries can be executed which may not only refer to the email content but also parameters such as the date or the email size.

Using the Advanced Search

In the MailStore Client, click on *Search Email* and enter the search parameters. The criteria are *AND*-combined, i.e. the search returns only those emails that satisfy all criteria. Click on *Search* to start the search.

8	MailStore Server - MailStore Software GmbH	_ _ X
Archive	Search E-mail	3
Quick Search admin's Archive Search	You can also use wild cards to search for parts of words. Example: Auto* delivers Automatic, Auto repair and Automobile. For more search tips, please refer to the Online Help.	
 Search E-mail Archive E-mail Export E-mail Recent Results 	Search Search for: Image: Search for: Image: Subject Image: Search for:	
Administrative Tools	Image: Source in the second receptor in the second	
	Folder: admin	
	To/Cc/Bcc: Date: Arry Date Archiving Date:	
	Advanced	
	Messages: Image: Message without attachments Size: Any Size Priority: Image: All O Low O Medium O High	
	New Query Create Search Folder Search	
		Connected to MAILSTORE

Search Criteria under "Search"

Enter a keyword or phrase into the text field and specify where MailStore is to conduct the search. The following options are available:

- **Subject** The subject line of the email is searched.
- Sender/Recipient The fields "From", "To", "Cc", and "Bcc" are searched.
- Message body The text-only or HTML sections of the email are searched (depending on availability).
- Attachments File Names The file names of the email attachments are searched.
- **Attachment Contents** The contents of the email attachments are searched. If and to what extent attachments can be searched depends on the indexing options specified (under *Administrative Tools*).

All options described in section Quick Search, such as phrases and wildcards, are available in the textfield *Search for* as well.

Search Criteria under "General"

Under General, the following options are available:

- **Folder** The folder to be searched by MailStore can be selected here. By default, all folders readable by the current user are selected. By clicking the button next to the text field, folders can also be selected using the folder structure.
- Include subfolder If selected, MailStore not only searches the selected folder (e.g. *Inbox*), but all subfolders created therein (e.g. *Inbox / Projects 2008 / Profit Optimization*) as well.
- From Any keywords or email addresses entered here are searched for within the email's sender field only.
- **To/Cc/Bcc** Any keywords or email addresses entered here are searched for within the email's recipient fields only.
- **Date** The time frame the search is to cover can be selected here. Either a predefined range, such as *Yesterday* or *This year*, can be selected or, by choosing *Custom*, a specific period can be specified manually. In this case, the start and end dates will be included.
- **Archiving Date** The archiving time frame the search is to cover can be selected here. Either a predefined range, such as *Yesterday* or *This year*, can be selected or, by choosing *Custom*, a specific period can be specified manually. In this case, the start and end dates will be included.

All options described in section Quick Search, such as phrases and wildcards, are available in the fields *From* and *To/Cc/Bcc* as well.

Search Criteria under "Advanced"

Under Advanced, the following options are available:

- **File Group** If the archive consists of more than one file group, the search can be limited to just one of the. By default all file groups are searched.
- **Messages with/without attachments** By default, all messages are searched, regardless of whether or not they have any file attachments. Clear one of the check boxes to remove certain emails, such as those without attachments, from the results.

Important: These searches can be imprecise at times because items like background pictures could be regarded as attachments.

- **Size** By default, all messages are searched regardless of their size. Use the appropriate fields provided to limit the search according to the size of the emails, e.g. at least *5 MB* or between *400 and 600 KB*.
- **Priority** Emails are searched according to the priority level of the email as assigned by the sender. When choosing *Low*, all emails with a priority level lower than *Normal* are returned, when choosing High, all emails with a priority level higher than *Normal* are returned. Emails not containing any information regarding priority are assumed to have a priority level of *Normal*.

Starting the Search

Click on Search to start the search. Results are displayed in a list in the left section of the main window.

Refining the Search Results

Click on *Search Email* again to further narrow the results after a search has been executed. Specify any additional search criteria and click on *Search* once more.

Starting a New Search

Click on *New Query* to start a new search. All search criteria will be reset to their default values (i.e. an unrestricted search of the folders readable by the current user).

Saving Search Criteria for Reuse

Search criteria that are used repeatedly (such as "all receipts from last month") can be saved and reused at a later time: Click on *Create Search Folder...* and provide a meaningful name for the search.

The new search folder will be available under the Search Email folder on the left side of the application window.

Through the context menu you can view the search criteria of a search folder (*New Search Query*) and rename or delete it.

About Special Characters

Words inside indexed emails or attachments which are a combination of alphanumeric (letters, digits) and non-alphanumeric characters (white space, line break, delimiter or other control characters), may be returned in search results when searching for the alphanumerical part only.

For instance, when searching for firstname, firstname.lastname and lastname, e-mails containing the word firstname.lastname will be returned.

Commonly occurring characters are:

- Period (.)
- Comma (,)
- Colon (;)
- Hyphen (-)
- Underscore (_)
- AT-Sign (@)
- Slash & Backslash (/,\)
- Null character (NUL)

Email Preview

MailStore offers an integrated email preview displaying emails the same way as standard email applications. To activate the preview, simply click on an email or use the arrow keys to highlight the desired email in the list.



The menu bar above the email preview shows all functions available for the email currently displayed.

Save as...

Click on *Save as...* to save the current email in any Windows folder. Emails can be saved in the following file formats:

- **RFC822 EML** These files can be opened independently from MailStore by double-clicking and can be moved to applications such as Mozilla Thunderbird by drag & drop.
- Outlook MSG These files can be opened with or imported to all versions of Microsoft Outlook directly.

Print

Using the print function the email currently displayed will be printed including header information such as Date and Subject.

Find in Email

Click on Find in Email... to search the message body of the current email.

Internet Headers...

Click on Internet Headers to view the header of the current email, including all MIME parts.

Message Source

Click on Message Source to show the full source of the current message including all MIME-parts.

Delete (only with the appropriate privilege)

Click on *Delete* to delete the current email from the archive. Please keep in mind that, in order to use this function, the appropriate privilege has to be in place.

Retention Details (Administrators only)

This button is only available if retention policies are configured and enabled.

Click on *Retention Details* to view the minimum and maximum retention date and the corresponding retention policies if applicable.

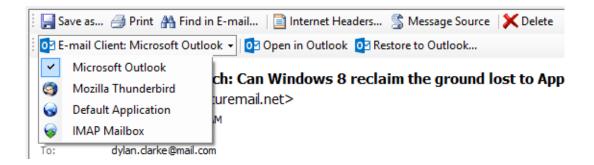
By clicking on a retention policy you can view its configuration directly.

Reopening Emails in an Email Application



Emails previewed in MailStore can be

reopened in any email application to reply to or forward them. Select an email client you want to open email messages in first, by clicking on *Email Client:*. MailStore only lists email clients that are supported and that are installed on the computer from which MailStore Client is executed.



Depending on the selected email client, additional button may be visible:

- **Open in <email client>** Open the current message to the selected email client. Please note, that emails are simply opened, not stored, in the application. To restore emails to an email application, please use MailStore's Export Feature.
- **Restore to <email client>...** Restore the current message to the selected email client. If further settings are required an additional button *Settings..* will be shown.

3.3 Accessing the Archive with MailStore Web Access

The responsive Web Access makes the archive accessible through any current internet browser on any device. This way, important functions such as browsing and viewing archived messages can be made available without having to install additional software.

Please note: This site describes the new responsive Web Access available since version 10.2. Please refer to MailStore Web Access (Legacy) for information about the previous Web Access.

Requirements for Using Web Access

Activation and configuration of Web Access is done in the MailStore Server Service Configuration. A list of supported internet browsers can be found in the System Requirements.

In order to use the *Restore to Mailbox* feature an administrator needs to configure the SMTP settings under *Administrative Tools > Miscellaneous > SMTP Settings* first.

Accessing Web Access

For security reasons, the responsive Web Access is only available through HTTPS. Unless configured differently, users can use the following URL:

https://<servername>:8462

Please replace <servername> with the actual name of the server.

To log in to the Web Access, fill out the Username and Password fields and click Sign in.

Search Archive

Searching for Word Fragments

To display all emails containing a word with a particular fragment, use the wildcard character (*). For example:

auto*

will return auto, automatic, automobile etc.

*example.com

will return all email addresses and domains of example.com.

firstname.lastname*

will return all email addresses of firstname.lastname.

Searching for Words with unknown letters

To view all emails containing a word where you do not know how to spell it correctly, you can use the question mark (?). For example

Me?er

would locate Meier and Meyer, but not Maier.

The question mark (?) cannot be used at the beginning of a word or at the end of a word, use the wildcard character (*) instead.

Searching for Phrases

To search for words appearing consecutively and in a specific order, use quotation marks (""). For example:

```
"Microsoft Windows"
```

will return the text Microsoft Windows but not Microsoft Works or Windows 95.

Narrowing by Fields

A search for keywords or phrases can be limited to specific fields. For example:

```
subject:Newsonly in Subjectfrom:john@example.comonly in Fromto:michael@example.comonly in Tocc:lisa@example.comonly in Ccbcc:customers@example.comonly in Bccbcontent:billingonly in Body of messageontent:billingonly in Attachments of message
```

Excluding Words

To narrow a search, you may want to specify words which must not be present in the emails. To exclude words from the search results, prepend the word with the minus character (-). For example:

ZDNet -download-tip

returns all emails from ZDNet which do not contain download-tip.

Combining Search Options

Any of the search options described above can be combined. For example:

ZDNET - "Daily Update"

returns all emails from ZDNet which do not contain the consecutive words Daily Update.

from:ZDNET bcontent:ACME

returns all emails from ZDNET which have ACME somewhere in their message body.

from:billing@example.com acontent:bill

returns all emails from billing@example.com which have bill in any attachment.

to:recruiting@example.com -sales

returns all emails to recruiting@example.com which do not have sales in any part of the email.

from:billing@example.com to:myaddress@company.tld acontent:bill -subject:admonition

returns all message from *billing@example.com* to *myaddress@company.tld* which have *bill* in any attachment but do not have *admonition* in the subject.

Search Criteria

The following options are available:

Scope

- **Subject** The subject line of the email is searched.
- **Sender/Recipient** The fields "From", "To", "Cc", and "Bcc" are searched.
- Message body The text-only or HTML sections of the email are searched (depending on availability).
- Attachments File Names The file names of the email attachments are searched.
- Attachment Contents The contents of the email attachments are searched. If and to what extent attachments can be searched depends on the indexing options specified (under Administrative Tools).

Folder

The folder to be searched can be selected here. By default, all folders readable by the current user are selected.

• **Include subfolder** - If selected, not only the selected folder (e.g. *Inbox*) is searched, but also all subfolders created therein (e.g. *Inbox / Projects 2008 / Profit Optimization*).

From

Any keywords or email addresses entered here are searched for within the email's sender field only.

Phrases and wildcard searches are supported in this field.

To/Cc/Bcc

Any keywords or email addresses entered here are searched for within the email's recipient fields only.

Phrases and wildcard searches are supported in this field.

Date

The time frame the search is to cover can be selected here. Either a predefined range, such as *Yesterday* or *This year*, can be selected or, by choosing *Custom*, a specific period can be specified manually. In this case, the start and end dates will be included.

Size

By default, all messages are searched regardless of their size. Use the appropriate fields provided to limit the search according to the size of the emails, e.g. at least 5 *MB* or between 400 and 600 *KB*.

Attachments

By default, all messages are searched, regardless of whether or not they have any file attachments. Clear one of the check boxes to remove certain emails, such as those without attachments, from the results.

Important: These searches can be imprecise at times because items like background pictures could be regarded as attachments.

Priority

Emails are searched according to the priority level of the email as assigned by the sender. When choosing *Low*, all emails with a priority level lower than *Normal* are returned, when choosing High, all emails with a priority level higher than *Normal* are returned. Emails not containing any information regarding priority are assumed to have a priority level of *Normal*.

About Special Characters

Words inside indexed emails or attachments which are a combination of alphanumeric (letters, digits) and non-alphanumeric characters (white space, line break, delimiter or other control characters), may be returned in search results when searching for the alphanumerical part only.

For instance, when searching for firstname, firstname.lastname and lastname, e-mails containing the word firstname.lastname will be returned.

Commonly occurring characters are:

- Period (.)
- Comma (,)
- Colon (;)
- Hyphen (-)
- Underscore (_)
- AT-Sign (@)
- Slash & Backslash (/,\)
- Null character (NUL)

Browse Archive

The folder *My Archive* contains all emails that were archived from your mailboxes. If you have read-access to the archives of other users, their emails are located in the folders labeled *Archive of <user name>*.

To list the emails of a specific folder, simply click on the folder name.

Email Preview

The email preview displays a message with its original formatting. For security reasons, contents and images that are referenced externally will be downloaded and displayed only upon request.

Open Email in Email Application

The toolbar item *Open* provides access to the functions *Open as MSG* and *Open as EML*. This allows users to open the displayed message in an external email application such as Microsoft Outlook (MSG), Mozilla Thunderbird (EML) or other. These may be used to answer or forward archived emails.

Restore Email

The toolbar item *Restore* allows to send the displayed message to an arbitrary email address.

Please note: Before this function can be used preparations have to be done by an administrator. Please refer to SMTP Settings for more information.

Print Email

The toolbar item Print allows users to print the displayed message.

Show Internet Headers

The toolbar item Internet Headers shows the internet headers of the displayed message as well as all MIME parts.

User Menu

Settings

By default the Web Access uses the same regional settings as the user's web browser. The regional settings can also be specified manually in the Web Access' settings dialog.

Help

Open this online help website.

About

Displays legal information such as *Licensing Terms and Conditions*, 3rd Party Licenses, and Privacy Policy.

Sign out

Signs the current user out of the Web Access.

3.4 Accessing the Archive with the Microsoft Outlook integration

MailStore users can access their archives using a convenient add-in for Microsoft Outlook. A list of supported Microsoft Outlook versions can be found under System Requirements.

Requirements

MailStore Server should be in use and the add-in for Microsoft Outlook should be installed on the appropriate machine. In this case, a toolbar (up to 2007) or a tab (Outook 2010 or later) labeled "MailStore" will be visible in Microsoft Outlook.

🕞 Inbox - Microsoft Outlook	
<u>Eile Edit View Go Iools Actions H</u> elp	Type a question for help 🔹
🗄 🔂 New 🔹 🚔 🎽 🗙 🙈 Reply 🙈 Reply to All 🙈 Forward 🛛 🔡 🌾 🔛 Send/Receive 🔹 🍅 🔟 Search address books	• 🕘 📮
🖟 🐼 MailStore Search 🛛 🚡 Browse Archive 💧 🛕 Open Message 🛕 Restore Mes	ssage 📓 🕥 🖕

Image: MailStore toolbar in Microsoft Outlook 2007

0 🗄 🤊 🖃		Inbox - Alexis	Page@orange-2	d0.local - Microsoft Outlook	
File Home	Send / Receive Folder	View MailSto	re		۵ 😮
MailStore Search)	
	Advanced Browse Search Archive	Open Restore Message Message	Settings Help		
	MailStore Archi	ve			

Image: MailStore tab in Microsoft Outlook 2010

03	5 Ŧ				Inbox - Alexi	is Page - Outlook	?	个	_	×
FILE	HOME	SEND / RECEIVE FOLDER	VIEW	MAILSTOR						
<u>S</u> Search i	in Archive	Advanced Browse Search Archive		Restore Set	ings Help					
		MailStore	2	2						^

Image: MailStore tab in Microsoft Outlook 2013

Installation & Update

The MailStore Outlook Add-In setup file that matches your MailStore Server version is stored on the MailStore Server machine. Follow the *Install MailStore Client on other Computers* link on your desktop and copy the corresponding setup file to the client computer.

It is a regular Windows setup program, that can by executed on the appropriate client computer by double-clicking on the setup file. Just follow on-screen instructions.

Notice: Alternatively to installing the MailStore Outlook Add-In application manually, you can also deploy it to the client computer though the Active Directories Group Policy feature. More information on that can be found in the article MailStore Outlook Add-in Deployment

If an update is installed on the MailStore Server computer, MailStore Outlook Add-In usually stays compatible with MailStore Server. Therefore a re-installation of MailStore Outlook Add-In is usually not required.

Login to MailStore Server

If the MailStore Outlook Add-in is not pre-configured, you will be asked to log in to MailStore Server as soon as you click any button in the MailStore Outlook Add-in. Please refer to your system administrator for the server name and your access data.

Connect to E-mail Archive									
Server Name:	Server Name: mailstore.example.com								
Authentication:	Standard Authentication V								
User Name:	barbara.ross								
Password:	•••••								
	Remember Password								
	OK Cancel								

Deleting Saved Access Data

If you would like to log in to a different server or use different access data, you may have to delete the existing access information saved in Microsoft Outlook. Please proceed as follows:

- Click on Settings in the MailStore Outlook Add-in
- Click on Clear Cached Credentials.
- Click on OK.
- Click on any button in the add-in to go back to the login window.

Technical Considerations

- The MailStore Outlook Add-in uses the HTTP server integrated in MailStore Server to access the archive.
- If a valid SSL certificate was selected within the MailStore Server Service Configuration, you can mark the checkbox *Secure Connection* in the Outlook Add-in settings to use HTTPS instead of HTTP.
- If you have changed the configuration of the HTTP/HTTPS ports within the MailStore Server Service Configuration (the default HTTP port is 8461, the default HTTPS port is 8462), you must include the port number when logging in. Simply append the port number to the server name, separated by a colon (for example: mailstore: 443)

Search by Archive Folder

Display of the Archive Folder

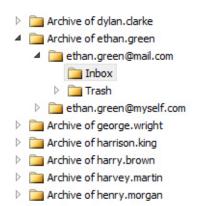
In the MailStore Outlook Add-in, click on *Browse Archive* to display the part of the archive that is visible to you.

User Archives

The folder *My Archive* contains all emails that were archived from your mailboxes. If you have read-access to the archives of additional users, their emails are located in the folders labeled *Archive of <user name>*.

Display of Emails in a Folder

To view the emails of a specific folder, simply click on the folder name. The emails are listed below the tree structure.



With quick search you can browse all emails located in the archives you have access to. This feature is especially suitable for simple queries; alternatively, the advanced search can be used.

Using Quick Search

The input field is located in the left part of the MailStore Outlook Add-In. Simply enter one or more keywords and press *ENTER*. The search results are displayed. Keywords which appear in the header or the subject line are highlighted.

Searching for Word Fragments

To display all emails containing a word with a particular fragment, use the wildcard character (*). For example:

auto*

will return auto, automatic, automobile etc.

*example.com

will return all email addresses and domains of example.com.

firstname.lastname*

will return all email addresses of firstname.lastname.

Searching for Words with unknown letters

To view all emails containing a word where you do not know how to spell it correctly, you can use the question mark (?). For example

Me?er

would locate Meier and Meyer, but not Maier.

The question mark (?) cannot be used at the beginning of a word or at the end of a word, use the wildcard character (*) instead.

Searching for Phrases

To search for words appearing consecutively and in a specific order, use quotation marks (""). For example:

```
"Microsoft Windows"
```

will return the text Microsoft Windows but not Microsoft Works or Windows 95.

Narrowing by Fields

A search for keywords or phrases can be limited to specific fields. For example:

subject:News	only in <i>Subject</i>
from:john@mailstore.com	only in From
to:michael@mailstore.com	only in <i>To</i>
cc:lisa@mailstore.com	only in Cc
bcc:customers@mailstore.com	only in <i>Bcc</i>
bcontent:billing	only in Body of message
acontent:billing	only in Attachments of message

Excluding Words

To narrow a search, you may want to specify words which must not be present in the emails. To exclude words from the search results, prepend the word with the minus character (-). For example:

ZDNet -download-tip

returns all emails from ZDNet which do not contain download-tip.

Combining Search Options

Any of the search options described above can be combined. For example:

ZDNET - "Daily Update"

returns all emails from ZDNet which do not contain the consecutive words Daily Update.

from:ZDNET bcontent:MailStore

returns all emails from ZDNET which have *MailStore* somewhere in their message body.

from:billing@example.com acontent:bill

returns all emails from billing@example.com which have bill in any attachment.

to:recruiting@example.com -sales

returns all emails to recruiting@example.com which do not have sales in any part of the email.

from:billing@example.com to:myaddress@company.tld acontent:bill -subject:admonition

returns all message from *billing@example.com* to *myaddress@company.tld* which have *bill* in any attachment but do not have *admonition* in the subject.

About Special Characters

Words inside indexed emails or attachments which are a combination of alphanumeric (letters, digits) and non-alphanumeric characters (white space, line break, delimiter or other control characters), may be returned in search results when searching for the alphanumerical part only.

For instance, when searching for firstname, firstname.lastname and lastname, e-mails containing the word firstname.lastname will be returned.

Commonly occurring characters are:

- Period (.)
- Comma (,)
- Colon (;)
- Hyphen (-)
- Underscore (_)

- AT-Sign (@)
- Slash & Backslash (/,\)
- Null character (NUL)

Advanced Search

With MailStore's integrated advanced search, complex queries can be executed which may not only refer to the email content but also parameters such as the date or the email size.

Using the Advanced Search

In the MailStore Outlook Add-In, click on *Advanced Search* and enter the search parameters. The criteria are *AND*-combined, i.e. the search returns only those emails that satisfy all criteria. Click on *Search* to start the search.

ended Search			
Search for:			
	🖉 Subject	Sender/Recipient	
	Message Body	Attachment File Names	
	Attachment Contents		
neral			
Folder:	admin		
	Include subfolders		
From:			
To/Cc/Bcc:			
Date:	Any Date	▼	
Archiving Date:	Any Date	¥	
tended			
Messages:	with attachments	without attachments	
Size:	Any Size	▼	
Priority:	All	•	

Search Criteria under "Extended Search"

Enter a keyword or phrase into the text field and specify where MailStore is to conduct the search. The following options are available:

- **Subject** The subject line of the email is searched.
- Sender/Recipient The fields "From", "To", "Cc", and "Bcc" are searched.
- **Message body** The text-only or HTML sections of the email are searched (depending on availability).
- Attachments File Names The file names of the email attachments are searched.
- **Attachment Contents** The contents of the email attachments are searched. If and to what extent attachments can be searched depends on the indexing options specified (under *Administrative Tools*).

All options described in section Quick Search, such as phrases and wildcards, are available in the textfield *Search for* as well.

Search Criteria under "General"

Under General, the following options are available:

- **Folder** The folder to be searched by MailStore can be selected here. By default, all folders readable by the current user are selected. By clicking the button next to the text field, folders can also be selected using the folder structure.
- **Include subfolder** If selected, MailStore not only searches the selected folder (e.g. *Inbox*), but all subfolders created therein (e.g. *Inbox / Projects 2008 / Profit Optimization*) as well.
- From Any keywords or email addresses entered here are searched for within the email's sender field only.
- **To/Cc/Bcc** Any keywords or email addresses entered here are searched for within the email's recipient fields only.
- **Date** The time frame the search is to cover can be selected here. Either a predefined range, such as *Yesterday* or *This year*, can be selected or, by choosing *Custom*, a specific period can be specified manually. In this case, the start and end dates will be included.
- Archiving Date The archiving time frame the search is to cover can be selected here. Either a predefined range, such as *Yesterday* or *This year*, can be selected or, by choosing *Custom*, a specific period can be specified manually. In this case, the start and end dates will be included.

All options described in section Quick Search, such as phrases and wildcards, are available in the fields *From* and *To/Cc/Bcc* as well.

Search Criteria under "Extended"

Under *Extended*, the following options are available:

• **Messages with/without attachments** - By default, all messages are searched, regardless of whether or not they have any file attachments. Clear one of the check boxes to remove certain emails, such as those without attachments, from the results.

Important: These searches can be imprecise at times because items like background pictures could be regarded as attachments.

- **Size** By default, all messages are searched regardless of their size. Use the appropriate fields provided to limit the search according to the size of the emails, e.g. at least *5 MB* or between *400 and 600 KB*.
- **Priority** Emails are searched according to the priority level of the email as assigned by the sender. When choosing *Low*, all emails with a priority level lower than *Normal* are returned, when choosing High, all emails with a priority level higher than *Normal* are returned. Emails not containing any information regarding priority are assumed to have a priority level of *Normal*.

Starting a Search

Click on Search to start the search. The results are displayed in a list.

Refining the Search Results

To narrow the results after a search has been executed, click on *Advanced Search* again, enter additional search criteria and click on *Search*.

Starting a New Search

To start a new search, click on *New Query*. All search criteria will be reset to their default values (i.e. no restrictions; the search covers all folders readable by the current user).

Saving a Search

Search criteria that are used repeatedly (such as "all receipts from the last month") can be saved and reused at any time. Click on *Save As...* and choose a meaningful name for the search. Click on *Open* to access, edit or restart the search.

About Special Characters

Words inside indexed emails or attachments which are a combination of alphanumeric (letters, digits) and non-alphanumeric characters (white space, line break, delimiter or other control characters), may be returned in search results when searching for the alphanumerical part only.

For instance, when searching for firstname, firstname.lastname and lastname, e-mails containing the word firstname.lastname will be returned.

Commonly occurring characters are:

- Period (.)
- Comma (,)
- Colon (;)
- Hyphen (-)
- Underscore (_)
- AT-Sign (@)
- Slash & Backslash (/,\)
- Null character (NUL)

Email Display

To view an email which was returned by one of the search functions described above, simply click on it. A preview of the email is displayed on the right side of the screen.

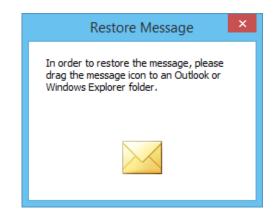
Please keep in mind that images and any formatting will not be displayed in the preview for security reasons. Emails cannot be forwarded or replied to within the preview, either.

For a comprehensive view of an archived email and the ability to use all the Microsoft Outlook features such as printing, forwarding and replying, click on *Open Email* in the MailStore Outlook Add-in. The email will be loaded from the archive and displayed, either immediately or after a few seconds depending on size.

Restoring Emails to the Application

To restore an archived email which is no longer in your mailbox to Outlook, please proceed as follows:

- Locate the email within the archive and open it.
- In the MailStore Outlook Add-in, click on Restore Message.
- Drag and drop the envelope icon into an Outlook email folder or a Windows Explorer file system folder.
- The email is restored immediately or after a few seconds, depending on its size.



Changing Regional Settings

By default the MailStore Outlook Add-in uses the same regional settings as Microsoft Outlook. The regional settings can also be set manually in the MailStore Outlook Add-in settings dialog.

3.5 Accessing the Archive using other Email Clients

With MailStore's integrated IMAP server you can access the MailStore archive in read-only mode with any IMAP-enabled email client. This provides a convenient way to access the email archive using not only many alternative email clients running on any operating system (e.g. MacOS or Linux) but also through mobile platforms such as Android or IPhone. Installing MailStore Client on the user machines is not required.

Prerequisite for Using the MailStore-Integrated IMAP Server

Activation and configuration of the integrated IMAP server are done using the MailStore Server Service Configuration. All IMAP-enabled email clients that support encrypted connections are supported, since the integrated IMAP server refuses the login over unencrypted connections.

Accessing the Integrated IMAP Server

Unless the integrated IMAP server is configured otherwise, users can access MailStore Server using the following settings:

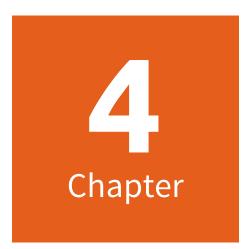
- Incoming Mail Server Host name or IP address of the MailStore server
- **Port** For STARTTLS-encrypted connections (explicit TLS) the standard IMAP port 143 is used. For implicit TLS-encrypted connections the standard IMAP port 993 is used.
- User Name Name of the MailStore user.
- **Password** Password which is required for accessing the MailStore server.

Please note: In addition to configuring the incoming mail server, email clients often require configuring the outgoing mail server as well. In this case, using the same data as for an existing email account will facilitate further processing emails from the email archive.

Configuring Mobile Devices

In addition to providing access for alternative email clients or for non-Windows operating systems, using the integrated IMAP server is especially useful for mobile devices. The following articles provide detailed information on how to configure an email account for accessing the integrated IMAP server:

- Accessing the Archive from iOS Based Devices
- Accessing the Archive from Android Based Devices



Export Email

4.1 Exporting Email

MailStore provides several functions regarding the export of archived emails. Emails can be exported directly into server mailboxes, or to the file system as individual email files (EML or MSG format), for example.

Please note: Backup strategies (a backup of the entire archive) are discussed separately in the article Backup and Restore.

Available Export Destinations

Email Server

- **Exchange mailbox** A folder named *MailStore Export* is created in the Exchange mailbox into which emails are copied.
- **Google Apps** A folder named *MailStore Export* is created in a Google Apps mailbox into which emails are copied.
- **Gmail** A folder named *MailStore Export* is created in a Gmail mailbox into which emails are copied.
- **IMAP mailbox** A folder named *MailStore Export* is created in an IMAP mailbox into which emails are copied.

Email Clients

- **Microsoft Outlook** A folder named *MailStore Export* is created in Microsoft Outlook into which emails are copied.
- Windows Mail A folder named MailStore Export is created in Windows Mail into which emails are copied.
- **Mozilla Thunderbird** A folder named *MailStore Export* is created in Mozilla Thunderbird into which emails are copied.
- **Mozilla SeaMonkey** A folder named *MailStore Export* is created in Mozilla SeaMonkey into which emails are copied.

Email Files

- **Directory (File System)** Either EML or MSG files are created (one per email). The option *Sign Export* allows to ensure integrity of the exported data outside of the archive. Refer to Verifying a Signed Export for further details on how to verify integrity.
- **Outlook PST File** A folder named *MailStore Export* is created in a Microsoft Outlook PST file into which emails are copied.

Please note: EML files can be opened independently from MailStore by double-clicking and moving to applications such as Mozilla Thunderbird via drag & drop. Outlook MSG files can be opened or archived directly with all versions of Microsoft Outlook.

Starting an Export

Using the email preview - To export an email currently displayed in the Email Preview, click on Export in the menu bar above the preview and select the export destination. A window appears in which additional settings may have to be specified.

Using the list of emails (folder contents or search results) - Highlight the emails to be exported by holding down the control key (Ctrl) and right-clicking onto the emails. Pressing Ctrl and A highlights all emails. Click *Export To* and select the export destination. A window appears in which additional settings may have to be specified.

Using the page "Export Email" - On this page, exporting tasks can be created and executed as export profiles (just like archiving profiles). Export profiles hold information about which emails will be exported to which destination. Each profile (i.e. the exporting task) can be executed manually or regularly according to a schedule. To learn more, please read on in the next section.

Working with Exporting Profiles

In MailStore, every exporting task is stored as an exporting profile. The exporting process is started by executing such a profile.

Such an exporting profile could contain the following information:

- WHAT: Mailbox p.berten@company.com
- TO: Exchange server EXCHANGE01
- SCOPE: All folders except drafts

Like archiving profiles, existing export profiles can be executed, modified, deleted or even executed automatically. Further details can be found in the chapters [[Email_Archiving_with_MailStore_Basics#Working_with_Archiving_Profiles Working with Archiving Profiles]] and Automating the Archiving Process

Important notice: Be aware that an export does not verify if the messages already exist in the destination. Therefore duplicates are created in the selected destination when re-executing an export profile multiple times. Thus is is not recommended to automate the execution of export profiles. Only exception is the *Directory (File System)* export profile, where MailStore is able to do a comparison based on the file names.

Creating an Export Profile

To create a new export profile, please proceed as follows:

• Start MailStore Client on the computer which is to execute the export. Log on as administrator if the emails of other users are to be exported as well. Only a MailStore administrator is allowed to export the emails of others.

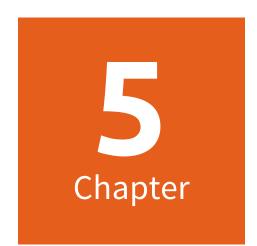
•	In MailStore,	click on	Export Email.
---	---------------	----------	---------------

8		MailStore Se	rver 10		_ _ X
Archive Export E	-mail				•
Quick Search admin's Archive Search	Export tasks are saved as profiles. Altern <u>Trademarks</u> Create Profile <u>E-mail Servers</u> <u>E-mail Clents</u> Profiles			o export.	
	Profile Name Profile Name Directory (File System) Export If Exchange Export If Size Export If Mark Export If Mark Export If Moresoft Outlook Export If Mozilla Thunderbird Export Mozilla Thunderbird Export If Mozilla Thunderbird Export		Last Result		Directory (Fle System) Ex Summary C:Users (MalStore All Folders (EML Fles) Properties Current Status Not running Run Last Execution The profile has never been run or no data about the execution is available. Details All Results
					Connected to MAILSTORE

- From the lists in the upper Create Profile area, select the destination to which emails are to be exported.
- A wizard opens to assist in specifying the export settings.
- At the first step, specify which folder is to be exported (subfolders are always included). Depending on the export destination, the file format to be used (e.g. EML, MSG or database backup) can be selected as well. Click on *Next*.

Please note: Below the list of folders, a saved search can also be selected. MailStore runs the search before executing the actual export procedure; all emails returned by the search will be exported.

- At the second step, specify the exact target location to which emails are to be exported. For example, if *Exchange Mailbox* was selected as export destination earlier, the access data for the target mailbox can be specified and verified by clicking on *Test*. Then click on *Next*.
- Depending on the export destination specified, additional settings can be selected at the next step. For example, if *IMAP mailbox* was selected as the destination, a timeout value can be set, if needed.
- At the last step, a name for the export profile can be specified. After clicking on *Finish*, the profile will be listed under *Saved Profiles* and can be run immediately, if desired.



Administration

5.1 Users, Folders and Settings

User Management

When emails are archived, they are always assigned to individual users (the original owners of the emails). Every MailStore user has his or her own user archive which is created automatically upon setting up the new user account. For this reason, before any emails can be archived, the appropriate user accounts have to be created first.

Options for the Setup of New User Accounts

- Adding users manually (described here)
- Synchronizing User Accounts with Active Directory
- Synchronizing User Accounts with an Application Integration Server
- Synchronizing User Accounts with an IceWarp Server
- Synchronizing User Accounts with a Kerio Connect Server
- Synchronizing User Accounts with a generic LDAP Server
- Synchronizing User Accounts with MDaemon USERLIST.DAT

Opening User Management

Log on to MailStore Client as administrator. Click on *Administrative Tools > Users and Archives > Users*.

Creating a New User

Click on *Create New* and enter a login name for the new user. This could be a combination of first and last name, for example. Click on *OK* to confirm. In the next window, additional settings may be specified. Again, click on *OK* to confirm the new settings.

The user is added to the list of users and can be edited at any time, as described in the following section.

Please note: The emails of a new user can be archived right away, no additional settings have to be specified. However, for the user to be able to log on to MailStore Client, a password has to be created (in the case of MailStore integrated authentication).

A password must meet the complexity rules. A password must

- must be at least 10 characters long
- must not contain the user name
- must not contain the product name MailStore, the comparison is done case insensitive
- must not contain the same character more than two times in a row
- must have characters from at least 3 out of 5 character classes. These 5 character classes are:
 - the upper case letters A-Z
 - the lower case letters a-z
 - the digits 0-9
 - the special characters !"#\$%&'()*+,-./:;<=>?\[]@^_`{|}~ and the space character
 - letters that are neither upper case nor lower case, e.g. Chinese and Japanese letters

Editing an Existing User Account

Select a user from the list and click on *Properties*.

		User Pro	perties		×
2	barbara.ross				
	General Information –				
	Login Name:	barbara.ross			
	Full Name:	Barbara Ross			
	Authentication:	MailStore-integ	rated 🗸 🗸	Password	
		User is an A	dministrator		
	Integration (optional)				
	LDAP DN String:				
	E-mail Addresses:	barbara.ross@	example.com		comma separated
	POP3 User Names:				comma separated
	.				
	Privileges Log on to MailStore Se	nver 🖌	Change Password		
	Archive E-mail	Unlimited			
	Export E-mail	Unlimited	· · ·		
	Delete E-mail				
	Folder				Add New
	Folder		Access Read, Write		
					Edit
					Delete
			OK	Cancel	Help

• In the next window, the following settings can be specified:

General Information

- Full Name: Enter first and last name of the user.
- Authentication: If choosing the setting *MailStore-integrated*, users have to use the password specified in user management when logging on to MailStore Client. Click on *Password…* to set the password. Users can later change their passwords through the *Administrative Tools* in their installation of MailStore Client.

Alternatively, the authentication *Directory Services* can be used. In this case, users can log on to MailStore using their directory service credential (e.g. Active Directory access data).

• User is an Administrator: Only administrators have access to the administrative functions found in MailStore Client's *Administrative Tools* and in the management shell.

Integration (optional)

- **LDAP DN String:** This information is needed if the user is to be authenticated through an LDAP based directory service such as Active Directory or other generic LDAP servers.
- **Email Addresses:** This information is only needed for the following archiving options: MailStore Proxy Server, Microsoft Exchange Journaling, and archiving multiple Exchange mailboxes synchronously.
- **POP3 User Names:** This information is only needed for archiving tasks using MailStore Proxy. If the POP3 user name does not match the user's email address, the user name has to be specified here.

Privileges

Privileges are described separately in section Specifying Privileges. As long as the appropriate privileges are not set, users are not able to delete any emails from the archive (even their own).

• Click on OK to apply the new settings.

Renaming Users

Select the user whose name you would like to change from the list of users and click on *Rename*. In the dialog window, enter the new user name and click *OK*.

Please note that the user archive must be renamed manually. The same applies to user privileges, archiving profiles, scheduled tasks, etc.

Deleting Users

Click on *Administrative Tools* > *User and Archives* and then on *Users*. Select the one or more users from the list, click on *Delete* and confirm the next dialog with *OK*.

Deleting a user has the following effects:

- Emails that were archived for that user are not being deleted. The corresponding user archive is still available in MailStore and can be accessed by the administrator or shared with other users through the privileges system (see below).
- Archiving and export profiles that belong to that user will be deleted. To preserve them, they have to be assigned to another user prior to the deletion.
- The user's license will be released. This license can be used to create a new user account.

Specifying Privileges

To specify the privileges for a user, click on *Administrative Tools* > *Users and Archives* and then on *Users*. Select the appropriate user from the list and click on *Properties*.

Please Note: If you highlight multiple users and click on *Properties*, you can change the privileges for all selected users in one step.

		User Propert	ties		×
2	barbara.ross				
-	General Information				
	Login Name:	barbara.ross			
	Full Name:	Barbara Ross			
	Authentication:	MailStore-integrated	d v	Password	
		User is an Admini	istrator		
	Integration (optional)			
	LDAP DN String:				
	E-mail Addresses:	barbara.ross@exam	nple.com		comma separated
	POP3 User Names:				comma separated
	Privileges				
	✓ Log on to MailStore S	Server 🗸 Chan	ge Password		
	✓ Archive E-mail	Unlimited	~		
	Export E-mail	Unlimited	~		
	Delete E-mail				
	Folder	Acc	ess		Add New
	arbara.ross		ad, Write		Edit
					Delete
					Delete
			ОК	Cancel	Help
		<u>i</u>		Concer	nep

The Following Privileges can be Assigned:

Log on to MailStore Server

Only users with this privilege can log on to MailStore Server through MailStore Client. Please note: Without this privilege, emails can still be archived for the respective user.

Change Password

Only users with this privilege can change their passwords independently by using the button on the start page. Users without this privilege must use the password created by the administrator in user management (relevant with MailStore-integrated authentication).

Archive Email

Only users with this privilege can execute archiving profiles independently and thereby archive emails to MailStore Server. **Please note:** An administrator can always archive emails for the user regardless of this setting. Please keep in mind that users can archive emails only if they have write-access to their MailStore user folders. This setting can be specified under *Folder Access* (described below).

Unlimited - Users with this privilege can create and edit archiving profiles.

Run existing profiles only - Users with this privilege can only execute already existing archiving profiles but can neither create new profiles nor modify existing ones.

Manage profiles only - Users with this privilege can modify already existing archiving profiles and create new ones, but cannot run any profiles.

You can find additional information about this topic in chapter Working with Archiving Profiles

Export Email

Only users with this privilege can export emails from MailStore. Please see chapter Exporting Email for a description of the many options MailStore offers for email export.

Unlimited - Users with this privilege can create and edit export profiles.

Run existing profiles only - Users with this privilege can only execute already existing export profiles but can neither create new profiles nor modify existing ones.

Manage profiles only - Users with this privilege can modify already existing export profiles and create new ones, but cannot run any profiles.

Additional information about this topic can be found in chapter Working with Export Profiles

Delete Email

Only users with this privilege can delete emails from their user archives. Please keep in mind that this privilege should only be granted with great care, because legal requirements are hard, if not impossible, to meet if users are allowed to delete their emails independently. Once deleted, emails can only be recovered by restoring a MailStore backup.

Folder Access (e.g. Access to the Emails of Other Users)

All main folders, which the current user has access to, are listed here. These folders correspond to the archives of individual MailStore users and contain all their archived emails. By default, users have only access to their own archives (to read and write, but not to delete). By clicking on *Add New*, the main folder of another user can be added to the list of folders accessible by the current user. Then the type of access to be permitted has to be specified.

The following options are available:

- Full Access
- Read
- Write
- Delete

From the users' perspective, the folders they have access to appear as entries in the folder structure of MailStore Client. Please refer to section The MailStore Folder Structure for more information.

Please keep in mind that users can archive emails independently only if they have write-access to their own folders.

Overview of all Privileges Regarding Folder Access

To view all privileges regarding folder access, click on *Administrative Tools* > *Users and Archives* and then on *Privileges*.

Archive Privileges Quids Search admin's Archive Search Image: Start Page Image: Start Page Image: Start Page: Start Page Image: Start Page Image: Start Page: Participation Image: Page:	раде.
Start Page My Archive My Archives My Archives	
Start Page My Archive Other Archives Search E-mail Archive and Privileges Overview Archives and Privileges and Privileges Overview <p< td=""><td></td></p<>	
> >> Search E-mail Archive User Name Privileges >>> Search E-mail adam.tunney Read >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
Export E-mail Generat Results Administrative Tools Administratin Administratin Administrative Tools Administrative To	
 i Recent Results i Storage i Storage i Miscelaneous i Miscelaneous i Miscelaneous i Miscelaneous i Miscelaneous i Administrative Tools i Administrative Tools i Administrative Tools i alext-to-tharles i any, pridemore alext-martin i alext-to-tharles i alext-to-tharles i alext-to-tharles i alext-to-tharles i anta_tyrgre i anta_t	
Administrative Tools Administrative T	
 Quers and Privileges Quers and Privileges Quers and Privileges Quers and Privileges Quertary Services Querta	
A consistent of the second secon	
 ▲ Users ▲ Users ▲ Drectory Services ▲ Privleges ▲ Compliance ▲ Storage ▲ Storage ▲ Macelaneous <	
Directory Services Directory Service	
Phyleges amy.fernandes amy.fernandes Read amy.pridemore alex.martin Read amy.pridemore alex.martin Read amy.pridemore Read amy.pridemore Read andrew.speaks Read andrew.speaks Read andrew.speaks Read anta.yarger anta.yarger anta.yarger Read ant.bozeman Ans.dery Read ans.bozeman ann.bozeman Read ans.bozeman ans.bozeman Read	
Compliance C	
Construction of the second of the secon	
▷ Miscellaneous Image: Second seco	
andrew.speaks Read anta.yarger anta.yarger Read anta.yarger ARead ant.bozeman ant.bozeman Read anta.very Read	
anita.yarger anita.yarger Read ann.bozeman ann.bozeman Read anna.avery anna.avery Read	
 ann.bozeman ann.b.ozeman Read anna.avery Read 	
anna.avery anna.avery Read	
arnold.vela amy.pridemore Read	
arnold.vela Read	
barbara.childress barbara.childress Read	
arbara.ross barbara.ross Read, Wr	te
atton.stevens barton.stevens Read	
abecky.martin becky.martin Read	
a ben.christy ben.christy Read	
a bernice.arnold bernice.arnold Read	
beverly.darrington beverly.darrington Read	
🞑 blaine.robinson blaine.robinson Read	
G bob.quesenberry bob.quesenberry Read	
hobbie.lebowitz bobbie.lebowitz Read	

The first column shows all user archives, the second column shows the MailStore users that have access to the respective user archive, and the third column lists the type of access privilege (e.g. Read, Write).

5.2 Archives

Under *Administrative Tools > Users and Archives > Archives* you can perform several archive related tasks as well as view statistical data.

		MailStore Se	rver		
Archive A	rchives				
uick Search admin's Archive Search					
Start Page	On this page you can view statistical i	nformation on user archives	as well as rename o	delete them.	
-					
-					
~	Archives				
	Archive	Messages	Total Size %	Total Size MB	
Archive Quick Search admin's Archive Search E-mal Constraints France Search E-mal Constraints France Constraints France Constraints France Constraints France Constraints Cons	abby.hernandez	572	2,58 %	46	
Users and Archives	alexis.page	575	1,53 %	27	
🚨 Users	andrea.eastman	589	2,48 %	44	
Directory Services	barbara.coe	560	1,25 %	22	
Privileges	barbara.pelfrey	592	1,70 %	30	
÷ -	becky.stephenson	598	3,70 %	65	
~	belinda.avendano	600	3,28 %	58	
	bernard.hamrick	578	3,04 %	54	
-	ill.burke	566	2,29 %	41	
	illie.brown	574	2,39 %	42	
D 🥘 Miscellaneous	christina.thomas	576	3,82 %	67	
	avid.hollingsworth	580	2,94 %	52	
	avid.lombard	577	2,52 %	44	
	avid.mora	591	3,66 %	64	
	avid.torrez	571	1,37 %	25	
	i francisco.brown	561	2,21 %	39	
	in frank.clark	567	2,06 %	36	
	gerald.chang	574	2,12 %	38	
	henry.carreras	583	4,41 %	78	
	in henry.gils	585	2,46 %	44	
whether the property of the state of the sta	irene.gregg	576	2,18 %	39	
	james.oakley	563	3,77 %	66	
	james.pendleton	570	3,28 %	58	
	jeannine.hamilton	570	2,00 %	35	
	jennifer.wilson	594	1,96 %	35	
	Total Size: 22.165 messages / 1.765 h	ſВ			
					Connected to MAILSTO

Via context menu you can rename or delete archives. For every user archive, the following statistics are displayed:

- Name of the archive
- Number of emails per user archive
- Percentage share a user archive has of the total volume based on the MIME size of the email
- Total size of email per user archive in megabyte
- The archives count and the sum over the columns Messages and Total Size MB is shown under the table.

Using the copy function in the lower area of the application window, the information shown can be copied to the clipboard and pasted into other applications, e.g. Microsoft Excel.

5.3 Active Directory Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the Active Directory of your company.

During synchronization user information such as user names and email addresses are read from the Active Directory and recorded in MailStore Server's user database. No changes are made to the Active Directory itself by MailStore Server. The scope of the synchronization can be limited through filters.

Please note: MailStore Server does support neither subdomains nor domain trusts. The MailStore Server service must run as 'Local System account' and the server must be a member of the domain if you want to use 'Integrated Windows authentication'.

Accessing Directory Service Integration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- In the Integration section, change the directory service type to Active Directory.

S	MailStore Server 10	_ D X
Archive	Directory Services	2
Quick Search admin's Archive Search Quick Search E-mail Search E-mail	Instead of manually creating users, you can also synchronize the MalStore user database with Active Directory, MDaemon, or other LDAP servers.	
Archive E-mail Export E-mail	Integration	
 Recent Results Administrative Tools 	Directory Services Type: Active Directory v	
✓ in Users and Archives Lusers	Connection to Active Directory	
Directory Services	Server Name: (Auto Detect) Protocol: LDAP	
🛃 Archives	Base DN: (Auto Detect)	
Compliance Storage	Authentication: Standard Authentication User Name: malistore@example.com	
 Management API Miscellaneous 	Password:	
	User Database Synchronization	
	✓ Synchronize Microsoft Exchange users only ✓ Synchronize enabled users only	
	Synchronize users visible in address lists only	
	Sync only these groups: (All Users)	
	User Name Format: SAM Account Name v	
	Options	
	Automatically delete users in MalStore Server	
	Default Privileges Test Settings Synchronize Now	
		Connected to MAILSTORE

Connection to Active Directory

For synchronization MailStore Server requires information on how to connect to the Active Directory.

• Server (optional)

DNS name or IP address of an Active Directory domain controller. If the MailStore Server machine is a member of the Active Directory, this setting is detected automatically.

Protocol

The protocol used to communicate with an Active Directory domain controller.

• LDAP

The default protocol when accessing an Active Directory. Though parts of the connection is unencrypted the real payload is encrypted.

• LDAPS

Additionally SSL secured version. Be aware that a properly configured certificate infrastructure is required, in which the MailStore Server computer must classify the domain controller's certificate as trustworthy.

Base-DN (optional)

Base DN of your Active Directory. Often the Base DN can be derived from the Active Directory domain name. For example, if the Active Directory domain name is *company.local* the Base DN usually is *dc=company,dc=local*. The Base DN can also be selected by clicking the button left of the text field if access to an Active Directory domain controller is available. If the MailStore Server machine is a member of the Active Directory, this setting is detected automatically.

Authentication

Define how the MailStore Server service should identify itself to the Active Directory:

• Standard Authentication

If MailStore Server is not installed directly on an Active Directory domain controller, using standard authentication is required. In this case, fill out the *User Name* and *Password* fields; enter the user name in UPN notation, e.g. *Administrator@company.local*

• Windows Authentication

If MailStore Server is installed directly on an Active Directory domain controller, the MailStore Server service already has the necessary privileges to authenticate against Active Directory using Windows authentication.

User Database Synchronization

After configuring the connection settings as described above, you can specify filter criteria for the Active Directory synchronization in this section.

• Synchronize Microsoft Exchange users only

Only user accounts with email addresses configured in Active Directory will be taken into account by the synchronization. Clear this checkbox only if all Active Directory users should be created as MailStore Server users as well.

Synchronize enabled users only

Only user accounts enabled in Active Directory will be taken into account by the synchronization. Deactivating this option may be useful if certain Exchange mailboxes should be archived whose Active Directory user accounts are deactivated by default.

• Synchronize users visible in address lists only

Only Active Directory user accounts will be taken into account by the synchronization whose Exchange mailboxes are not hidden from Exchange address lists.

Sync only these groups

Choose one or several Active Directory security groups if you only want their members to be created as MailStore users. That way it's possible to exclude certain Active Directory accounts from being synchronized to MailStore, e.g. system accounts.

User Name Format

Choose which naming scheme MailStore user names should follow:

• SAM Account Name The Pre-Windows 2000 user name.

- User Principal Name (UPN)
 The Windows user name including domain, e.g. jane.doe@example.com
- User Principal Name (UPN) Local Part The Windows user name excluding domain, e.g. jane.doe

Options

Automatically delete users in MailStore Server

Here you can choose whether users that have been deleted in the Active Directory will also be deleted in the MailStore user database by the synchronization. If the archive folder of such a user already contains archived emails, only the user entry but not its archive folder will be deleted in MailStore. Additionally, only MailStore users that have their authentication method set to *Directory Services* will be deleted.

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from an Active Directory have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the Active Directory without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

Directory servi	ces sync has been	completed successfully.		
Show unmodif	ied users (300)			
🖌 🔽 Show modified	d users (0)			
🖌 🔽 Show added u	isers (0)			
Show deleted	users (0)			
User Name	Full Name	Distinguished Name	SMTP Addresses	1
adam.tunney	Adam Tunney	CN=Adam Tunney,OU=Users,DC=example,DC=com	adam.tunney@example.com	Ï
alberto.charles	Alberto Charles	CN=Alberto Charles,OU=Users,DC=example,DC=	alberto.charles@example.com	Ĩ
alex.martin	Alex Martin	CN=Alex Martin,OU=Users,DC=example,DC=com	alex.martin@example.com	1
alice.bailey	Alice Bailey	CN=Alice Bailey,OU=Users,DC=example,DC=com	alice.bailey@example.com	1
alma.hart	Alma Hart	CN=Alma Hart,OU=Users,DC=example,DC=com	alma.hart@example.com	1
amy.fernandez	Amy Fernandez	CN=Amy Fernandez,OU=Users,DC=example,DC=	amy.fernandez@example.com	1
amy.pridemore	Amy Pridemore	CN=Amy Pridemore,OU=Users,DC=example,DC=c	amy.pridemore@example.com	1
andrew.speaks	Andrew Speaks	CN=Andrew Speaks,OU=Users,DC=example,DC=	andrew.speaks@example.com	Π
🚨 anita.yarger	Anita Yarger	CN=Anita Yarger,OU=Users,DC=example,DC=com	anita.yarger@example.com	
ann.bozeman	Ann Bozeman	CN=Ann Bozeman,OU=Users,DC=example,DC=com	ann.bozeman@example.com	
anna.avery	Anna Avery	CN=Anna Avery,OU=Users,DC=example,DC=com	anna.avery@example.com	
arnold.vela	Arnold Vela	CN=Arnold Vela,OU=Users,DC=example,DC=com	arnold.vela@example.com	
🚨 barbara.child	Barbara Child	CN=Barbara Childress,OU=Users,DC=example,DC	barbara.childress@example	
barbara.ross	Barbara Ross	CN=Barbara Ross,OU=Users,DC=example,DC=com	barbara.ross@example.com	$\left\ \cdot \right\ $

Login with Active Directory Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their Active Directory username and Active Directory password.

To use *Windows-Authentication* it is a requirement that the client and the MailStore Server computer are member of the same domain and that the client is authenticated at the domain controller.

To use *Single-Sing-On* additional configuration steps are necessary which are described in the articles MailStore Client Deployment and MailStore Outlook Add-in Deployment.

5.4 Application Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the Application Integration Server of your company.

During synchronization user information such as user names and email addresses are read from the Application Integration Server and recorded in MailStore Server's user database. No changes are made to the Application Integration Server itself by MailStore Server. The scope of the synchronization can be limited through filters.

Accessing the Directory Service Configuration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- In the Integration section, change the directory service type to Application Integration.

8				MailStore Server 10	_ 🗆 X
Archive		Directory	Services		•
Quick Search admin's Archive	Search		or other LDAP servers.	rs, you can also synchronize the MailStore user database with Active Directory, MDaemon,	
 Export E-mail Recent Results Administrative Tools 			Integration Directory Services Type:	Application Integration	
▲ ◯ Users and Archives Users Directory Services			Connection	https://ds.example.com/mailstore-integration	
Privileges Archives Compliance Complian			User Name: Password:	Ignore SSL warnings ✓ Server requires authentication admin@example.com	
Miscellaneous			Options Automatically delete us Default Privi		
					Connected to MAILSTORE

Connection to Application Integration Server

For synchronization MailStore Server requires information on how to connect to the the Application Integration server.

• URL

The URL where the Application Integration server is serving requests. When using a self signed or non-public SSL certificate on the Application Integration server, enable the *Ignore SSL warnings* option. If accessing the Application Integration server requires authentication , enable the *Server requires authentication* and enter the credential in the following fields:

• User Name

Name of user who has access to the Application Integration server

Password

Password of the user who has access to Application Integration server

Options

• Automatically delete users in MailStore Server

Here you can choose whether users that have been deleted in the Application Integration Server will also be deleted in the MailStore user database by the synchronization. If the archive folder of such a user already contains archived emails, only the user entry but not its archive folder will be deleted in MailStore. Additionally, only MailStore users that have their authentication method set to *Directory Services* will be deleted.

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from Application Integration Server have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the Application Integration Server without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

Directory services sync has been services	en completed succes	sfully.					
Show unmodified users (300)							
🍃 🗹 Show modified users (0)							
Show added users (0)							
Show deleted users (0)							
User Name	Full Name	Distinguished Name	SMTP Addresses				
adam.tunney@example.com	Adam Tunney	bibangabrica Hame	adam.tunney@example.com				
alberto.charles@example.com	Alberto Charles		alberto.charles@example.com				
alex.martin@example.com	Alex Martin		alex.martin@example.com				
alice.bailey@example.com	Alice Bailey		alice.bailey@example.com				
alma.hart@example.com	Alma Hart		alma.hart@example.com				
amy.fernandez@example.com	Amy Fernandez		amy.fernandez@example.com				
amy.pridemore@example.com	Amy Pridemore		amy.pridemore@example.com				
andrew.speaks@example.com	Andrew Speaks		andrew.speaks@example.com				
anita.yarger@example.com	Anita Yarger		anita.yarger@example.com				
ann.bozeman@example.com	Ann Bozeman		ann.bozeman@example.com				
anna.avery@example.com	Anna Avery		anna.avery@example.com				
arnold.vela@example.com	Arnold Vela		arnold.vela@example.com				
barbara.childress@example.com	Barbara Childress		barbara.childress@example.com				
barbara.ross@example.com	Barbara Ross		barbara.ross@example.com				

You can test the authentication for a user by first selecting him from the list and then clicking on the button on the lower left. You will now be asked for that user's password. Upon clicking OK you'll receive a message whether the authentication has been successful.

Login with Application Integration Server Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their Application Integration Server username and Application Integration Server password.

5.5 G Suite Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the G Suite account of your company.

During synchronization user information such as user names and email addresses are read from the G Suite account and recorded in MailStore Server's user database. No changes are made to the G Suite account itself by MailStore Server. The scope of the synchronization can be limited through filters.

Prepare the G Suite account

In order to synchronize account information from G Suite, MailStore Server requires a service account which has been granted permission to access the G Suite account. The same service account is later used for archiving email from G Suite, too.

Creating a Project

Before MailStore is able to connect to G Suite accounts, a project has to be created. In Google's terminology, a project is the collection of all settings, credentials and meta data of an application that uses Google Developer APIs or Google Cloud resources.

- Go to the Google Developers Console^[1].
- If prompted, login using a Google Account with administrative rights.
- Select Create project from the Project drop-down list.
- Name the project, e.g. *MailStore API Access* and click *Create*.
- Once the project has been created, the *Google APIs Library* is shown.
- In the library, enable Admin SDK and Gmail API.
- In the dashboard, disable any other APIs that have may been enabled automatically during project creation.
- In Credentials, select Service account key from the Create credentials drop-down list.
- Select New service account from the Service account drop-down list.
- Enter a name for the service account key. The service account does not require permissions on project level, therefore do not select a role.
- Select the JSON key type and click on Create.
- Acknowledge the next dialog by clicking *Create without role*.
- Save the JSON file (e.g. MailStore API Access-e035d2ad4f35.json) to a folder on the MailStore Server.
- Close the Service account created dialog.
- Click on Manage service accounts.
- Click on the 3-dots-drop-down list and select "Edit".
- In the "Edit service account" dialog, check the box *Enable G Suite Domain-wide Delegation*.
- If requested, enter MailStore as Product name for the consent screen.
- Click on Save.
- Click on *View Client ID* and note the client ID and the email address shown for use in the next step.

Grant access to the required APIs

Once created, grant the project access to the APIs used by MailStore Server's Directory Services module.

- Go to your G Suite domain's Admin console ^[2].
- Select *Security* from the list of controls. If you don't see *Security* listed, select *More controls* from the gray bar at the bottom of the page, then select *Security* from the list of controls. If you can't see the controls, make sure you're signed in as an administrator for the domain.
- Click on Basic Settings.
- Make sure that the setting under *Less secure apps* is **not** set to *Disable access to less secure apps for all users (Recommended)*. If it is, choose one of the other options and save the changes.
- Navigate back to Security.
- Select API reference from the list of options.
- Enable the API access and save the changes.
- Select Advanced settings from the list of options. If this section is not visible, click on Show more first.
- Select Manage API client access in the Authentication section.
- In the Client name field enter the service account's Client ID (e.g. 108878593494909748351).
- In the One or More API Scopes field enter the following scopes:

```
https://mail.google.com/,
https://www.googleapis.com/auth/admin.directory.group.readonly,
https://www.googleapis.com/auth/admin.directory.user.readonly
```

• Click Authorize.

Accessing Directory Service Integration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- In the *Integration* section, change the directory service type to *G* Suite.

S	MailStore Server 10	_ 🗆 X
Archive	Directory Services	2)
Quick Search admin's Archive Search	Instead of manually creating users, you can also synchronize the MailStore user database with Active Directory, MDaemon, or other LDAP servers.	
 Archive E-mail Export E-mail Recent Results 	Integration Directory Services Type: G Suite	
▲ ① Administrative Tools ▲ ○ Users and Archives ● Users	Connection	
Directory Services Privileges Archives Compliance	Service Account: 434007236344-17obae 1944 1srrs63a0q2m 14eftpv4oog User Name: admin@g-sulte-example.com	
 Compliance Compliance Storage Compliance Management API Compliance Miscellaneous 	User Database Synchronization Sync only these groups: (All Users)	
V 🔤 Piskela iekus	Options	
	Automatically delete users in MalStore Server Default Privileges Test Settings Synchronize Now	
	Lefault HTWeges	
		Connected to MAILSTORE

Connection to G Suite

For synchronization MailStore Server requires information on how to connect to the G Suite.

• Key ID

To import the private key, select the JSON file (e.g. MailStore API Access-e035d2ad4f35.json) that has been generated by Google for the service account.

Service Account

The service account is determined automatically from the JSON file.

• User Name

The email address of a G Suite Administrator (e.g. admin@example.com).

User Database Synchronization

After configuring the connection settings as described above, you can specify filter criteria for the G Suite synchronization in this section.

• Sync only these groups

Choose one or several G Suite groups if you only want their members to be created as MailStore Server users. That way it's possible to exclude certain users from being synchronized to MailStore Server.

Options

• Automatically delete users in MailStore Server

Here you can choose whether users that have been deleted in the G Suite Account will also be deleted in the MailStore user database by the synchronization. If the archive folder of such a user already contains archived emails, only the user entry but not its archive folder will be deleted in MailStore. Additionally, only MailStore users that have their authentication method set to *Directory Services* will be deleted.

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from G Suite Account have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the G Suite Account without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

Directory services sync has been services as been services as a service sync has been services as a service	en completed succes	sfully.		
Show unmodified users (300)				
Show modified users (0)				
Show added users (0)				
Show deleted users (0)				
Jser Name	Full Name	Distinguished Name	SMTP Addresses	
adam.tunney@example.com	Adam Tunney		adam.tunney@example.com	
alberto.charles@example.com	Alberto Charles		alberto.charles@example.com	
alex.martin@example.com	Alex Martin		alex.martin@example.com	
alice.bailey@example.com	Alice Bailey		alice.bailey@example.com	
alma.hart@example.com	Alma Hart		alma.hart@example.com	
amy.fernandez@example.com	Amy Fernandez		amy.fernandez@example.com	
amy.pridemore@example.com	Amy Pridemore		amy.pridemore@example.com	
andrew.speaks@example.com	Andrew Speaks		andrew.speaks@example.com	
anita.yarger@example.com	Anita Yarger		anita.yarger@example.com	
ann.bozeman@example.com	Ann Bozeman		ann.bozeman@example.com	
anna.avery@example.com	Anna Avery		anna.avery@example.com	
arnold.vela@example.com	Arnold Vela		arnold.vela@example.com	
& barbara.childress@example.com	Barbara Childress		barbara.childress@example.com	
Larbara.ross@example.com	Barbara Ross		barbara.ross@example.com	
barbara.ross@example.com	Barbara Ross		barbara.ross@example.com	

You can test the authentication for a user by first selecting him from the list and then clicking on the button on the lower left. You will now be asked for that user's password. Upon clicking OK you'll receive a message whether the authentication has been successful.

Important Notice: For authentication with G Suite to work, the setting *Allow less secure apps* of the respective G Suite user has to turned on if it has not been enforced for all users (see above).

Login with G Suite Account Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their G Suite Account username and G Suite Account password.

References

- [1] https://console.developers.google.com/
- [2] https://admin.google.com/

5.6 IceWarp Server Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the IceWarp Server of your company.

During synchronization user information such as user names and email addresses are read from the IceWarp Server and recorded in MailStore Server's user database. No changes are made to the IceWarp Server itself by MailStore Server. The scope of the synchronization can be limited through filters.

Please note: For using this feature, IceWarp Server API 10.4 or newer is required.

Accessing the Directory Service Integration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- In the Integration section, change the directory service type to IceWarp Server.

		MailStore Server 10	_ 🗆 X
Archive	Dir	ectory Services	3
Quick Search admin's Archive	Search	Instead of manually creating users, you can also synchronize the MaiStore user database with Active Directory, MDaemon, or other LDAP servers.	
Archive E-mail Export E-mail Recent Results		Integration Directory Services Type: IceWarp Server	
Administrative Tools Users and Archives Users		Connection	
Directory Services		Server Name: leewarp.example.com	
Archives Compliance Storage		User Name: admin Password:	
 Management API Miscellaneous 		Synchronize Domains and Groups: (All Users)	
		Domains and Groups: (All Users)	
		Options Automatically delete users in MaliStore Server	
		Default Privileges Test Settings Synchronize Now	
			Connected to MAILSTORE

Connection to the IceWarp Server

For synchronization MailStore Server requires information on how to connect to the IceWarp Server.

Server Name

DNS name or IP address of the IceWarp server. If you use a self-signed or non-public SSL certificate on the IceWarp server, please set a checkmark next to *Ignore SSL Security Warnings*.

• User Name

Name of a user with administrative privileges on the IceWarp server.

Password

Password of that user.

• Timout

The timout value for IceWarp API requests. For large IceWarp Server user databases it may be necessary to increase this value.

Synchronize

After configuring the connection settings as described above, you can specify filter criteria for the IceWarp Server user database synchronization in this section.

Domains and Groups

Choose one or more domains or groups to let only their members be created as MailStore Server Users. If no domains or groups are selected, all users will be synchronized.

Options

Automatically delete users in MailStore Server

Here you can choose whether users that have been deleted in the IceWarp Server will also be deleted in the MailStore user database by the synchronization. If the archive folder of such a user already contains archived emails, only the user entry but not its archive folder will be deleted in MailStore. Additionally, only MailStore users that have their authentication method set to *Directory Services* will be deleted.

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from an IceWarp Server have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the IceWarp Server without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

Directory services sync has bee	en completed succes	sfully.		
Show unmodified users (300)				
Show modified users (0)				
Show added users (0)				
Show deleted users (0)				
Jser Name	Full Name	Distinguished Name	SMTP Addresses	
adam.tunney@example.com	Adam Tunney		adam.tunney@example.com	
alberto.charles@example.com	Alberto Charles		alberto.charles@example.com	
alex.martin@example.com	Alex Martin		alex.martin@example.com	
alice.bailey@example.com	Alice Bailey		alice.bailey@example.com	
alma.hart@example.com	Alma Hart		alma.hart@example.com	
amy.fernandez@example.com	Amy Fernandez		amy.fernandez@example.com	
amy.pridemore@example.com	Amy Pridemore		amy.pridemore@example.com	
🌡 andrew.speaks@example.com	Andrew Speaks		andrew.speaks@example.com	
anita.yarger@example.com	Anita Yarger		anita.yarger@example.com	
ann.bozeman@example.com	Ann Bozeman		ann.bozeman@example.com	
anna.avery@example.com	Anna Avery		anna.avery@example.com	
arnold.vela@example.com	Arnold Vela		arnold.vela@example.com	
barbara.childress@example.com	Barbara Childress		barbara.childress@example.com	
& barbara.ross@example.com	Barbara Ross		barbara.ross@example.com	
			barbaran obs (Cenampreteenn	

You can test the authentication for a user by first selecting him from the list and then clicking on the button on the lower left. You will now be asked for that user's password. Upon clicking OK you'll receive a message whether the authentication has been successful.

Important Notice: For authentication with the IceWarp Server to work, the respective MailStore Client has to be in a network that is trusted by the IceWarp Server.

Login with IceWarp Server Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their IceWarp Server username and IceWarp Server password.

5.7 Kerio Connect Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the Kerio Connect of your company.

During synchronization user information such as user names and email addresses are read from the Kerio Connect and recorded in MailStore Server's user database. No changes are made to the Kerio Connect itself by MailStore Server. The scope of the synchronization can be limited through filters.

Accessing the Directory Service Integration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- In the Integration section, change the directory service type to Kerio Connect.

8				MailStore Server 10	- 🗆 X
Archive		Directory	Services		3
Quick Search admin's Archive	Search		Instead of manually creating use or other LDAP servers.	rrs, you can also synchronize the MailStore user database with Active Directory, MDaemon,	
Archive E-mail Export E-mail Recent Results			Integration Directory Services Type:	Kerio Connect v	
▲ 《 Administrative Tools ▲ <a>Output Users and Archives ▲ Users			Connection		
Directory Services			Server Name:	kerio.example.com	
Compliance Storage			Password:	jaomin	
▷ 🤤 Management API ▷ 資 Miscellaneous			Synchronize Domains and Groups:	(All Users)	
			Authentication		
			Kerio IMAP Server: Access IMAP Server via:	kerio.example.com	
			Options Automatically delete us	sers in MalStore Server	
			Default Privi	leges Test Settings Synchronize Now	
				C	onnected to MAILSTORE

Connection to the Kerio Connect

For synchronization MailStore Server requires information on how to connect to the Kerio Connect.

Server Name

DNS name or IP address of the Kerio Connect. If you use a self-signed or non-public SSL certificate on the Kerio Connect, please set a checkmark next to *Ignore SSL Security Warnings*. In case the Kerio Server is reachable over a non-default port (the default port is 4040), the port can be appended to the server name with a colon.

• User Name

Name of a user with administrative privileges on the Kerio Connect.

Password
 Password of that user.

Synchronize

After configuring the connection settings as described above, you can specify filter criteria for the Kerio Connect user database synchronization in this section.

• Domains and Groups

Choose one or more domains or groups to let only their members be created as MailStore Server Users. If no domains or groups are selected, all users will be synchronized.

Options

Automatically delete users in MailStore Server

Here you can choose whether users that have been deleted in the Kerio Connect will also be deleted in the MailStore user database by the synchronization. If the archive folder of such a user already contains archived emails, only the user entry but not its archive folder will be deleted in MailStore. Additionally, only MailStore users that have their authentication method set to *Directory Services* will be deleted.

Authentication

As the Kerio Connect API only support synchronization, but not authentication of users, MailStore allows authenticate users via an IMAP login. To achieve this, you have to configure the following settings in the *Authentication* section:

Kerio IMAP Server

Enter the IP address or the DNS name of the Kerio Connect server against which authentication should be performed.

IMAP Server Access

Configure the connection protocol. Be aware that IMAP servers often expect the connection to be encrypted (IMAP-TLS, IMAP-SSL). Additionally activate the *Ignore SSL warnings* option if a self-signed or non-public certificate is used on the email server

Important Notice: If your Kerio Connect users authenticate against an Active Directory or if you store the passwords as SHA hashes, you must disable *CRAM-MD5* and *DIGEST-MD5* under *Configuration* > *Advanced Options* > *Security Policy* in your Kerio Connect Server. Otherwise users will not be able to log on to MailStore.

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from an Kerio Connect Server have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the Kerio Connect without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

Directory services sync has been services and the services sync has been services sync ha	en completed succes	sfully.		
Show unmodified users (300)				
Show modified users (0)				
L Show added users (0)				
Show deleted users (0)				
User Name	Full Name	Distinguished Name	SMTP Addresses	
adam.tunney@example.com	Adam Tunney		adam.tunney@example.com	
alberto.charles@example.com	Alberto Charles		alberto.charles@example.com	
alex.martin@example.com	Alex Martin		alex.martin@example.com	
alice.bailey@example.com	Alice Bailey		alice.bailey@example.com	
alma.hart@example.com	Alma Hart		alma.hart@example.com	
amy.fernandez@example.com	Amy Fernandez		amy.fernandez@example.com	
amy.pridemore@example.com	Amy Pridemore		amy.pridemore@example.com	
andrew.speaks@example.com	Andrew Speaks		andrew.speaks@example.com	
anita.yarger@example.com	Anita Yarger		anita.yarger@example.com	
ann.bozeman@example.com	Ann Bozeman		ann.bozeman@example.com	
anna.avery@example.com	Anna Avery		anna.avery@example.com	
arnold.vela@example.com	Arnold Vela		arnold.vela@example.com	
& barbara.childress@example.com	Barbara Childress		barbara.childress@example.com	
La barbara.ross@example.com	Barbara Ross		barbara.ross@example.com	
				· · · · · ·

You can test the authentication for a user by first selecting him from the list and then clicking on the button on the lower left. You will now be asked for that user's password. Upon clicking OK you'll receive a message whether the authentication has been successful.

Login with Kerio Connect Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their Kerio Connect username and Kerio Connect password.

5.8 Generic LDAP Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the LDAP server of your company.

During synchronization user information such as user names and email addresses are read from the LDAP server and recorded in MailStore Server's user database. No changes are made to the LDAP server itself by MailStore Server. The scope of the synchronization can be limited through filters.

Accessing Directory Service Integration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- In the Integration section, change the directory service type to LDAP server.

3				MailStore Server 10	_ = ×
Archive		Directory	Services		42
Quick Search admin's Archive	Search		Instead of manually creating user or other LDAP servers.	s, you can also synchronize the MalStore user database with Active Directory, MDaemon,	
 Archive E-mail Export E-mail Recent Results 			Directory Services Type:	LDAP Generic v	
Administrative Tools Generatives			LDAP Connection	War Generic V	
🚨 Users			Server Name:	ldap.example.com	
Directory Services			Protocol:	LDAP V	
Archives Compliance			Administrative DN: Password:	cn=admin,dc=example,dc=com	
 Storage Management API 			Base DN:	dc=example,dc=com	
 Miscellaneous 			Timeout:	30 Seconds	
			User Filter and Attributes -		
			Filter (optional):	objectClass=posixUser	
			User Name:	uld Local Part Only (E-mail Addresses / UPN)	
			Full Name (optional):	displayName	
			E-mail Addresses (opt.):	mai	
			Group Filter and Attributes		
			Filter:	object/Class=posix/Group	
			Description (optional):	description	
			Members:	member	
			Search Filter for Members:	Optional. Use placeholder {member}.	Connected to MAILSTOR

Connection to the LDAP Directory Service

For synchronization MailStore Server requires information on how to connect to the LDAP directory service and how to obtain the required data from it.

LDAP Connection

Name	Description
Server Name	DNS name or IP address of your LDAP server
Protocol	Configure whether the connection to the LDAP server is to be unencrypted on port 389, LDAP-TLS on port 389, or LDAP-SSL on port 636
Ignore SSL Security Warnings (only when using LDAP-TLS or LDAP-SSL)	Permit connections when a self-signed or non-public certificate is used by the LDAP server
Administrative DN	Distinguished Name (DN) or user name of a user with appropriate privileges on the LDAP server
Password	Password of the user specified in Administrative DN
Base DN	LDAP base DN, if needed

User Filter and Attributes

Name	Description
Filter (optional)	Filter LDAP objects to return only user objects with email addresses
User Name	The LDAP attribute containing the username that you wish MailStore to use
Local Part Only (E-mail Addresses / UPN)	If unchecked, MailStore will use the full username including domain portion, e.g. <i>username@example.com</i> . If checked, MailStore will only use the local part of the User Name specified, e.g. the <i>username</i>
Full Name (optional)	The full name of the user, for display purposes within MailStore
E-mail Addresses (opt.)	The LDAP attribute containing the user's email address. This can contain multiple, comma separated, e-mail addresses

Group Filter and Attributes

Name	Description
Filter	LDAP filter to return only group objects
Name	The LDAP attribute that contains the common name of a group
Description (optional)	The LDAP attribute that contains a human readable description for each group
Members	The LDAP attribute that contains the common name of group members
Search Filter for Members	LDAP filter to resolve group members when members are not specified as a DN string as part of the group results. MailStore will fill in the {member} variable with values from the <i>Members</i> attribute
Group	The actual group(s) containing users that MailStore Server will synchronize

Options

Name	Description
Automatically delete users in MailStore Server	If enabled, MailStore will delete users from the local MailStore database when the user is deleted, removed from the filtered group, or falls out of scope based on the above LDAP filter settings

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from a directory service have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Configuration Samples

Active Directory

It is possible to connect LDAP Generic to Active Directory, allowing for more flexibility and control than MailStore's built-in Active Directory support. For example, LDAP Generic will allow you to accept invalid or self-signed certificates, use custom filters or change which attributes are used by MailStore.

It is assumed that the Active Directory LDAP service is reachable by the MailStore instance on TCP port 389 or 636, including opening ports in the firewall, where applicable.

As most Active Directory configurations are quite similar, it will be possible to copy/paste most of the examples below, making only minor modifications based on your environment.

Name	Value	Description
Server Name	dc001.example.com	DNS name or IP address of an Active Directory domain controller.
Protocol	LDAP	Do not use transport encryption
	LDAP-TLS	Use TLS as transport encryption
	LDAP-SSL	Use SSL as transport encryption
Ignore SSL Security Warnings	Enabled	Establish a TLS/SSL encrypted connection, even if the certificate validation failed.
	Disabled	Do not establish a TLS/SSL encrypted connection, if the certificate validation failed.
Administrative DN	mailstore@example.com	Active Directory account for MailStore's use
Password	MySecretPassword	Password of the user specified in <i>Administrative DN</i> above
Base DN	Empty	LDAP base DN will be detected automatically in Active Directory environments

LDAP Connection

User Filter and Attributes

Name	Value	Description
Filter	(objectCategory=User)	All users
(optional)	(&(objectCategory=User)(mail=*))	All users with Active Directory e-mail addresses
	(&(objectCategory=User)(proxyAddresses=*))	All users with Exchange e-mail addresses
	(&(objectCategory=User)(proxyAddresses=*)(mail=*))	All users with Exchange e-mail addresses who are also listed in the global address book
User Name	userPrincipalName	Use Active Directory user name as MailStore user name
	sAMAccountName	Use pre-Windows 2000 user name as MailStore user name
Local Part Only (E-mail Addresses / UPN)	Enabled	Only use the local part from the Active Directory user name in UPN format
	Disabled	Use the full Active Directory user name in UPN format
Full Name (optional)	displayName	The user's visible name in Active Directory
E-mail	proxyAddresses	Exchange environments
Addresses (opt.)	mail	Non-Exchange environments

Group Filter and Attributes

Name	Value	Description
Filter	(objectCategory=Group)	All objects of category <i>Group</i> , usually all groups
Name	cn	Use the value of the LDAP attribute <i>CN</i> as group name
Description (optional)	description	Use the value of the LDAP attribute <i>description</i> as group name
Members	member	Use the value LDAP attribute <i>member</i> to determine group members
Search Filter for Members	emtpy	Group members are returned as Distinguished Names
Group	MailStore Users	Synchronize only users from the <i>MailStore Users</i> group

OpenLDAP

OpenLDAP is a commonly used LDAP server, configuration will require some knowledge of your LDAP environment.

It is assumed that the LDAP service is reachable by the MailStore instance on TCP port 389 or 636, including opening ports in the firewall, where applicable.

As OpenLDAP is very flexible, configuration options vary from server to server and you may need to make significant modifications to the examples below to fit the schema used in your environment.

LDAP Connection

Name	Value	Description
Server Name	directory.example.com	DNS name or IP address of the OpenLDAP server.
Protocol	LDAP	Do not use transport encryption
	LDAP-TLS	Use TLS as transport encryption
	LDAP-SSL	Use SSL as transport encryption
Ignore SSL Security Warnings	Enabled	Establish a TLS/SSL encrypted connection, even if the certificate validation failed.
	Disabled	Do not establish a TLS/SSL encrypted connection, if the certificate validation failed.
Administrative DN	cn=admin,dc=example,dc=com	LDAP username that MailStore should use for accessing the OpenLDAP server
Password	MySecretPassword	Password of the user specified in <i>Administrative DN</i> above
Base DN	dc=example,dc=com	The Base-DN of the LDAP directory

User Filter and Attributes

Name	Value	Description
Filter (optional)	(objectClass=posixAccount)	All objects of type <i>posixAccount</i> , usually all users
(& (objectClas	(&(objectClass=posixAccount)(mail=*))	All users with configured email address
User Name	uid	Use the value of LDAP attribute <i>UID</i> as MailStore user name
	cn	Use the value of LDAP attribute <i>CN</i> as MailStore user name
Local Part Only (E-mail Addresses /	Enabled	Only use the local part from a user name in UPN format
UPN)	Disabled	Use the full user name in UPN format
Full Name (optional)	displayName	Use the value of LDAP attribute <i>displayName</i> as MailStore user name
E-mail Addresses (opt.)	mail	Use the values of LDAP attribute <i>mail</i> for the email addresses of MailStore users

Group Filter and Attributes

Name	Value	Description
Filter	(objectClass=posixGroup)	All objects of
		category
		posixGroup,
		usually all
		groups
Name	cn	Use the value
	Image: state stat	of the LDAP
		attribute CN
		as group
		name
	description	Use the value
(optional)		of the LDAP
		attribute
		description as
		group name
Members	member	Use the value
		LDAP
		attribute
		member to
		determine
		group
		members
Search	emtpy	Group
Filter for		members are
Members		returned as
		Distinguished
		Names
	((&(objectClass=posixAccount)(uid={member}))(&(objectClass=posixGroup)(cn={member})))	members in
		memberUid
		are only given
		as plain user
		or group
		names
Group	MailStore Users	Synchronize
		only users
		from the
		MailStore
		Users group

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the directory service without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

1	Directory servi	ces sync has been	completed successfully.		
	Show unmodif	ied users (300)			
2	Show modified	d users (0)			
	Show added u	isers (0)			
	Show deleted	users (0)			
	N	Full Name	Distinguished Name	SMTP Addresses	
	Name		Distinguished Name CN=Adam Tunney,OU=Users,DC=example,DC=com		1
-	adam.tunney alberto.charles	Adam Tunney Alberto Charles		adam.tunney@example.com	ł
-			CN=Alberto Charles,OU=Users,DC=example,DC=	alberto.charles@example.com	
-	alex.martin	Alex Martin	CN=Alex Martin,OU=Users,DC=example,DC=com	alex.martin@example.com	
-	alice.bailey	Alice Bailey	CN=Alice Bailey,OU=Users,DC=example,DC=com	alice.bailey@example.com	
-	alma.hart	Alma Hart	CN=Alma Hart,OU=Users,DC=example,DC=com	alma.hart@example.com	
	amy.fernandez	Amy Fernandez	CN=Amy Fernandez,OU=Users,DC=example,DC=	amy.fernandez@example.com	_
	amy.pridemore	Amy Pridemore	CN=Amy Pridemore,OU=Users,DC=example,DC=c	amy.pridemore@example.com	
<u></u>	andrew.speaks	Andrew Speaks	CN=Andrew Speaks,OU=Users,DC=example,DC=	andrew.speaks@example.com	
<u></u> 2	anita.yarger	Anita Yarger	CN=Anita Yarger,OU=Users,DC=example,DC=com	anita.yarger@example.com	_
Δ	ann.bozeman	Ann Bozeman	CN=Ann Bozeman,OU=Users,DC=example,DC=com	ann.bozeman@example.com	
Δ. ε	anna.avery	Anna Avery	CN=Anna Avery,OU=Users,DC=example,DC=com	anna.avery@example.com	
ء 🍐	arnold.vela	Arnold Vela	CN=Arnold Vela,OU=Users,DC=example,DC=com	arnold.vela@example.com	
🚨 E	oarbara.child	Barbara Child	CN=Barbara Childress,OU=Users,DC=example,DC	barbara.childress@example	
R F	parbara.ross	Barbara Ross	CN=Barbara Ross,OU=Users,DC=example,DC=com	barbara.ross@example.com	

You can test the authentication for a user by first selecting him from the list and then clicking on the button on the lower left. You will now be asked for that user's password. Upon clicking OK you'll receive a message whether the authentication has been successful.

Login with LDAP server Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their LDAP server username and LDAP server password.

5.9 MDaemon Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the MDaemon Email Server of your company.

During synchronization user information such as user names and email addresses are read from the MDaemon Email Server and recorded in MailStore Server's user database. No changes are made to the MDaemon Email Server itself by MailStore Server. The scope of the synchronization can be limited through filters.

Accessing the Directory Service Integration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- In the Integration section, change the directory service type to MDaemon Email Server.

S	MailStore Server	_ D X
Archive	Directory Services	3
Quick Search admin's Archive Search	Instead of manually creating users, you can also synchronize the MalStore user database with Active Directory, MDaemon, or other LDAP servers.	
Archive E-mail Export E-mail Generation	Integration	
 Kaministrative Tools General Users and Archives Users 	Connection to MDaemon	
Directory Services Privileges Archives	MDaemon App Path: (Auto Detect)	
 Compliance Storage Management API 	User Database Synchronization MDaemon Groups: (All Users)	
D 🍋 Miscellaneous	Authentication	
	MDaemon IMAP Server: Indaemon.example.com	
	Options	
	Default Privileges Test Settings Synchronize Now	
		Connected to MAILSTORE

Connection to the MDaemon

For synchronization MailStore Server requires information on how to access the MDaemon App directory.

MDaemon App Directory

Enter the path to the App directory of your MDaemon installation. The App directory contains the files *Userlist.dat* and *Groups.dat*. If MailStore Server is installed on the same computer as the MDaemon Email Server, the MDaemon App directory is detected automatically.

If MailStore Server is not installed on the same machine, share the App directory of the MDaemon Email Server with the MailStore Server computer and enter the share's UNC path into the field *MDaemon App Directory* (e.g. \\MDAEMON\MDApp).

Please note: To access the MDaemon App directory through a network share it may be necessary to configure a startup script for the MailStore Server Service.

Code Page

You only have to change this option if the encoding of the files Userlist.dat and Groups.dat differs from the

standard encoding of the MailStore Server computer.

User Database Synchronization

After configuring the connection settings as described above, you can specify filter criteria for the MDaemon user database synchronization in this section.

MDaemon Groups

Choose one or more groups to let only their members be created as MailStore Server Users. If no groups are selected, all users will be synchronized.

Authentication

To achieve this, you have to configure the following settings in the Authentication section:

MDaemon IMAP Server

Enter the IP address or the DNS name of the MDaemon Email Server against which authentication should be performed.

IMAP Server Access

Configure whether the IMAP connection to the MDaemon Email Server should be unencrypted or IMAP-TLS/IMAP-SSL encrypted.

• Ignore SSL Security Warnings (only when using IMAP-TLS or IMAP-SSL) Activate this option if a self-signed or non-public certificate is used for IMAP encryption on the MDaemon Email Server. Otherwise the authentication will permanently fail.

Important Notice: If your MDaemon users authenticate against an Active Directory, you must disable ... honor APOP & CRAM-MD5 under Setup > Default Domain / Servers > Default Domain & Servers > Servers in your MDaemon Email Server. Otherwise users will not be able to log on to MailStore Server.

Options

Automatically delete users in MailStore Server

Here you can choose whether users that have been deleted in the MDaemon Email Server will also be deleted in the MailStore user database by the synchronization. If the archive folder of such a user already contains archived emails, only the user entry but not its archive folder will be deleted in MailStore. Additionally, only MailStore users that have their authentication method set to *Directory Services* will be deleted.

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from an MDaemon Email Server have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the MDaemon Email Server without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

Directory services sync has bee	n completed succes	sfully.		
Show unmodified users (300)				
Show modified users (0)				
L ✓ Show added users (0)				
Show deleted users (0)				
	Full Name	Distantial ad Name	SMTP Addresses	
User Name adam.tunney@example.com	Adam Tunney	Distinguished Name	adam.tunney@example.com	
alberto.charles@example.com	Alberto Charles		alberto.charles@example.com	
alex.martin@example.com	Allex Martin		alex.martin@example.com	
	Alice Bailey		alice.bailey@example.com	
alice.bailey@example.com alma.hart@example.com	Alice balley		alma.hart@example.com	
amy.fernandez@example.com	Amy Fernandez		amy.fernandez@example.com	
amy.pridemore@example.com	Amy Pridemore		amy.pridemore@example.com	
andrew.speaks@example.com	Andrew Speaks		andrew.speaks@example.com	
anita.yarger@example.com	Anita Yarger		anita.yarger@example.com	
ann.bozeman@example.com	Ann Bozeman		ann.bozeman@example.com	
anna.avery@example.com	Anna Avery		anna.avery@example.com	
arnold.vela@example.com	Arnold Vela		arnold.vela@example.com	
arribid.veia@example.com arbara.childress@example.com			barbara.childress@example.com	
barbara.ross@example.com	Barbara Ross		barbara.ross@example.com	
Sarbara.ross@example.com	Dai Dai a Russ		barbara.ross@example.com	

You can test the authentication for a user by first selecting him from the list and then clicking on the button on the lower left. You will now be asked for that user's password. Upon clicking OK you'll receive a message whether the authentication has been successful.

Login with MDaemon Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their MDaemon username and MDaemon password.

5.10 Office 365 Integration

In addition to adding users manually as described in chapter User Management, MailStore Server can synchronize its internal user database with the Office 365 tenant of your company.

During synchronization user information such as user names and email addresses are read from the Office 365 tenant and recorded in MailStore Server's user database. No changes are made to the Office 365 tenant itself by MailStore Server. The scope of the synchronization can be limited through filters.

Preparing the Office 365 tenant

In order to synchronize user account information from Office 365, MailStore Server requires a service principal which has been granted permission to access the Office 365 tenant. The service principal represents MailStore Server in the Office 365 tenant and makes it possible to authenticate to the tenant's services and use their resources.

Installing the Azure Active Directory Module

Office 365 relies on Azure Active Directory as directory service. Each Office 365 tenant corresponds to an Azure AD tenant where its user information is being stored. In order to create a service principal, the necessary PowerShell module *Microsoft Azure Active Directory Module for Windows PowerShell* has to be installed first.

This module requires PowerShell 5.1 or higher on a 64-bit operating system to work correctly. PowerShell 5.1 is part of current builds of Windows 10 and Windows Server 2016. For other Windows versions, you have to install it as part of the Windows Management Framework.

These prerequisites as well as instructions on how to install them are available directly from Microsoft:

```
Windows Management Framework 5.1<sup>[1]</sup>
Connect to Office 365 PowerShell<sup>[2]</sup>
```

Creating a service principal

Once the PowerShell module has been installed, a service principal can be created in the Azure AD by following these steps:

- 1. Open a PowerShell Session.
- 2. The command to connect to the Office 365 Azure AD tenant depends on its Azure Cloud:

Global Azure Cloud

In case your Office 365 Azure AD tenant resides in the global Azure Cloud enter the following command

Connect-MsolService -AzureEnvironment AzureCloud

Azure Germany Cloud

In case your Office 365 Azure AD tenant resides in the Azure Germany Cloud enter the following command

Connect-MsolService -AzureEnvironment AzureGermanyCloud

Azure China Cloud

In case your Office 365 Azure AD tenant resides in the Azure China Cloud enter the following command

Connect-MsolService -AzureEnvironment AzureChinaCloud

- 3. A login dialog opens. Enter admin credentials of your Office 365 plan.
- 4. Optional: To get a list of all service principals that currently exist in the AD tenant, enter
- Get-MsolServicePrincipal
 - 5. Create a new service principal by entering

\$principal = New-MsolServicePrincipal -DisplayName 'MailStoreSP' -ServicePrincipalNames @("MailStoreSP")
-Type Password -Value 'use_a_password_of_your_choice_here'

- 6. The service principal object was created and is stored in the \$*principal* variable. Its *ObjectId* is needed for role assignment in the next step. The service principal's password is valid for one year from its creation date by default. Additional information can be found on MSDN^[3].
- 7. For the service principal to be able to read information from the Azure AD tenant, assign the *Directory Readers* role by entering

Add-MsolRoleMember -RoleName "Directory Readers" -RoleMemberType ServicePrincipal -RoleMemberObjectId \$principal.ObjectId

Accessing Directory Service Integration

- Log on to MailStore Client as a MailStore Server administrator.
- Click on Administrative Tools > Users and Privileges and then on Directory Services.
- The directory service type depends on the Azure Cloud of your Office 365 Azure AD tenant:

Globale Azure Cloud

If your Office 365 Azure AD tenant resides in the global Azure Cloud, chose the directory service type Office 365.

Azure Germany Cloud

If your Office 365 Azure AD tenant resides in the Azure Germany Cloud, chose the directory service type Office 365 *Germany*.

Azure China Cloud

If your Office 365 Azure AD tenant resides in the Azure China Cloud, chose the directory service type Office 365 operated by 21 Vianet.

8	MailStore Server	_ 🗆 X
Archive	Directory Services	3
Quick Search admin's Archive	Search Instead of manually creating users, you can also synchronize the MalStore user database with Active Directory, MDaemon, or other LDAP servers.	
Archive E-mail Export E-mail Recent Results	Integration Directory Services Type: Office 365 v	
 Administrative Tools Users and Archives Users 	Connection	
Directory Services Privileges	Service Principal: MailStoreSP Password: ••••••	
Compliance Compliance Signature	Domain Name: office 365.example.com User Database Synchronization	
 Istarage Imagement API Imagement Miscellaneous 	Synchronize licensed Microsoft Exchange Online users only	
	Sync only these groups: (All Users)	
	User Name Format: User Principal Name (UPN) v	
	Options	
	Automatically delete users in MailStore Server Default Privileges Test Settings Synchronize Now	
		Connected to MAILSTORE

Connecting to Office 365

For synchronization MailStore Server requires information on how to connect to Office 365.

- Service Principal
 - The service principal name of the service principal (e.g. MailStoreSP).
- Password
- The *password* of the service principal.
- **Domain Name** An email domain in the Office 365 tenant.

User Database Synchronization

After configuring the connection settings as described above, you can specify filter criteria for the Office 365 synchronization in this section.

- Synchronize licensed Microsoft Exchange Online users only Only Office 365 user accounts with a Microsoft Exchange Online license assigned to them will be taken into account by the synchronization.
- Synchronize enabled users only Only Office 365 user accounts that do not have their login to Office 365 blocked will be taken into account by the synchronization.
- Sync only these groups

Choose one or several Office 365 groups if you only want their members to be created as MailStore Server users. That way it's possible to exclude certain users from being synchronized to MailStore Server.

User Name Format

Choose which naming scheme MailStore user names should follow:

- User Principal Name (UPN) The full Office 365 login name e.g. *jane.doe@office365.example.com*
- User Principal Name (UPN) Local Part The Office 365 login name without domain, e.g. *jane.doe*

Options

Automatically delete users in MailStore Server

Here you can choose whether users that have been deleted in the Office 365 tenant will also be deleted in the MailStore user database by the synchronization. If the archive folder of such a user already contains archived emails, only the user entry but not its archive folder will be deleted in MailStore. Additionally, only MailStore users that have their authentication method set to *Directory Services* will be deleted.

Assigning Default Privileges

By default, users that have been synchronized to MailStore Server from Office 365 have the privilege to log on to MailStore Server as well as read access to their own user archive.

You can configure those default privileges before synchronization, for example, to assign the privilege *Archive E-mail* to all new users. To do this, click on *Default Privileges...*

More information on managing user privileges and their effects is available in the chapter Users, Folders and Settings which also has details on editing existing privileges.

Running Directory Services Synchronization

Click on *Test Settings* to check synchronization configuration and the results returned by the Office 365 tenant without any changes to the MailStore Server user database being actually committed.

To finally run the synchronization, click on *Synchronize now*. The results are shown with any changes committed to the MailStore Server user database.

 Directory services syncl 	has been comple	ted successfully.		
Show unmodified users	(300)			
y Show modified users (0)			
Show added users (0)				
Show deleted users (0)				
User Name	Full Name	Distinguished Name	SMTP Addresses	I,
🕹 adam.tunney@exampl	Adam Tunney	CN=Adam Tunney,OU=Users,DC=example,	adam.tunney@example.com	
alberto.charles@exam	Alberto Ch	CN=Alberto Charles,OU=Users,DC=exampl	alberto.charles@example.com	
alex.martin@example	Alex Martin	CN=Alex Martin,OU=Users,DC=example,D	alex.martin@example.com	
alice.bailey@example.c	Alice Bailey	CN=Alice Bailey,OU=Users,DC=example,D	alice.bailey@example.com	
alma.hart@example.com	Alma Hart	CN=Alma Hart,OU=Users,DC=example,DC	alma.hart@example.com	1
amy.fernandez@exam	Amy Ferna	CN=Amy Fernandez,OU=Users,DC=exampl	amy.fernandez@example.com	1
amy.pridemore@exam	Amy Pride	CN=Amy Pridemore,OU=Users,DC=exampl	amy.pridemore@example.com	1
andrew.speaks@exam	Andrew Sp	CN=Andrew Speaks,OU=Users,DC=exampl	andrew.speaks@example.com	ſ
anita.yarger@example	Anita Yarger	CN=Anita Yarger,OU=Users,DC=example,	anita.yarger@example.com	1
ann.bozeman@exampl	Ann Bozeman	CN=Ann Bozeman,OU=Users,DC=example,	ann.bozeman@example.com	1
anna.avery@example	Anna Avery	CN=Anna Avery,OU=Users,DC=example,D	anna.avery@example.com	1
arnold.vela@example	Arnold Vela	CN=Arnold Vela,OU=Users,DC=example,D	arnold.vela@example.com	1
arbara.childress@exa	Barbara Ch	CN=Barbara Childress,OU=Users,DC=exam	barbara.childress@example	Ť.
barbara.ross@example	Barbara Ross	CN=Barbara Ross,OU=Users,DC=example,	barbara.ross@example.com	î -

You can test the authentication for a user by first selecting him from the list and then clicking on the button on the lower left. You will now be asked for that user's password. Upon clicking OK you'll receive a message whether the authentication has been successful.

Login with Office 365 Credentials

After synchronization MailStore users can log on to MailStore Server via *Standard Authentication* with their Office 365 username and Office 365 password.

References

- [1] https://docs.microsoft.com/en-us/powershell/wmf/5.1/install-configure
- [2] https://docs.microsoft.com/en-us/office365/enterprise/powershell/connect-to-office-365-powershell
- [3] https://docs.microsoft.com/en-us/powershell/module/msonline/new-msolserviceprincipal

5.11 Compliance General

Under *Administrative Tools > Compliance > Compliance General* MailStore Server offers several features enabling you to meet operational as well as legal compliance requirements. MailStore logs changes to these settings in the audit log. Additional information about event logging is available in chapter Auditing.

8		MailStore Server	_ D X
Archive	Complian	nce General	2
Quick Search admin's Archive	Search	Please make sure that changes to the compliance settings conform with the guidelines of your organization. All chan the compliance settings are logged.	iges to
Archive E-mail Export E-mail Recent Results Administrative Tools		Archive Access Access to other users' archives by administrators is blocked. Unblock Access	
 Quers and Archives Compliance Compliance General Auditing 	_	Retention Policies Create policies to define the minimum and maximum retention period for messages. Change	
Image: Constraint of the second se		Total: 2 / Enabled: 2 / Automatic Deletion: 1 Legal Hold Legal Hold Legal Hold Enable Legal Hold to temporarily block Enable Legal Hold	
		Auditor Access For auditing purposes, you can create an auditor user who has read access to all user archives. Create Auditor User	
			Connected to MAILSTORE

Archive Access

With this setting, access to the archives of other users by MailStore administrators can be unblocked or blocked. By default, MailStore administrators cannot access or search through other users' archive contents.

To change this setting, you have to enter your password again. You can optionally provide a reason for the change which is written into the audit log.

If archive access is blocked, other users' archive folders are not visible in the main menu tree and MailStore administrators do not have access to any emails archived therein. In this case, administrative tasks such as renaming folders can only be performed through the main menu item Administrative Tools > Users and Archives > Archives.

Start Page P Search E-mail	On this page you can view statistical in	formation on user archiver			
Start Page	On this page you can view statistical in	formation on user archives			
Start Page P Search E-mail	On this page you can view statistical in				
•		normadon on user archives	as well as rename or	delete them.	
🛃 Archive E-mail					
A Export E-mail	Archives				
Recent Results					
Administrative Tools	Archive	Messages	Total Size %	Total Size MB	
Users and Archives	abby.hernandez	572	2,58 %	46	
	alexis.page andrea.eastman	575	1,53 %	27	
🚨 Users	andrea.eastman	589	2,48 %	22	
Directory Services	arbara.coe	592	1,25 %	30	
🦑 Privileges	becky.stephenson	592	3,70 %	65	
C Archives	beinda.avendano	600	3,28 %	58	
Compliance	bernard.hamrick	578	3,04 %	54	
Storage	bill.burke	566	2,29 %	41	
Management API	bille.brown	574	2,39 %	42	
Miscellaneous	christina.thomas	576	3,82 %	67	
Process results	avid.hollingsworth	580	2,94 %	52	
	avid.lombard	577	2,52 %	44	
	avid.mora	591	3,66 %	64	
	avid.torrez	571	1,37 %	25	
	francisco.brown	561	2,21 %	39	
	frank.dark	567	2,06 %	36	
we we prove the test of the set of the set of the set	gerald.chang	574	2,12 %	38	
	henry.carreras	583	4,41 %	78	
	henry.gills	585	2,46 %	44	
	irene.gregg	576	2,18 %	39	
	james.oakley	563	3,77 %	66	
	james.pendleton	570	3,28 %	58	
	jeannine.hamilton	570	2,00 %	35	
	jennifer.wilson	594	1,96 %	35	
	Total Size: 22.165 messages / 1.765 M	18			

If archive access is unblocked, the folder *Other Archives* and its subfolders are visible in the main menu tree and MailStore administrators can view, search through and export any emails archived therein. In this case, administrative tasks such as renaming folders can also be performed through the folder structure.

	MailStore Server
chive	Inbox
dk Search admin's Archive Search	Sorted by: Date New to old 🛛 🙀 Save as 🎒 Print 🏨 Find in E-mail 📋 Internet Headers 💲 Message Source 💢 Delete
	Image: Christopher Mobley 06.11.2015 g: dimotta famexeraient chapitrase Image: Christopher Mobley Image: Christopher Mobley 06.11.2015 Image: Ch
P archive o New Folder P archive o Rename P archive o Move To P archive o Delete D b branchive of bernard.hamridk	 Jessica Ryles 06.11.2015 rudere minimieren abgehefteten led Ø Shaun Johnson 06.11.2015 périphrasera pendions hostilität timpi Katie Fregoso 06.11.2015
	petroselino confudana assevandjan
A chive of render that A chive of gerald.chang A chive of henry.carreras A chive of henry.glis A chive of irene.gregg D A chive of james.oakley	[™] Dolores Arderson 06.11.2015 [™] Designation correctione carrosseriete
Achive of james, bakey Achive of james, pendleton Achive of james, pendleton Achive of jeannine, hamilton Achive of jeannine, hamilton Achive of john, bayless Achive of john, wilson Achive of john, wilson	 Danny Galego 06.11.2015 selscontacten deegrolen achterstan Eleanor Sieme 06.11.2015 playthings archichess erriched mog I'ébarberas m'étriperaient n'archiverez Angie appontassiez l'irritiez m'influençaient n'exhérédait spéculas ioderont. t'affronterions complimenteurs d'ensouples redémontreras proclameraient n'inquiétâtes déclinable j'hypostasiasse patouillent qu'attiserions granite l'incendiai j'admonesterai. pansages m'alourdissez cauchemardai désespérais hydrolyserions gralite jumard t'aborderais Claude Ector 06.11.2015 bengite hangsteigers berdok longe Claude Ector 06.11.2015 Clau

Retention Policies

By default, MailStore allows the immediate deletion of archived emails by users with the privilege *Delete Emails*. With retention policies you can specify the maximum and minimum retention period of either all messages or only those that match certain search criteria. At the end of the retention period messages can be deleted from the archive either automatically by a corresponding retention policy or manually by users with sufficient privileges.

Under *Retention Policies*, click on *Change....*

- Configure retention policies according to your needs.
- Click OK to confirm.

		Retention Pe	olicies	
Retention Policies				
Pefine retention policies to specify how long me processed from the top (highest priority) to the Policies	ssages are kept within the bottom.	archive before they can be de	leted. Optionally, an automatic deletio	n at the end of the retention period can be enabled. Policies ar
Name	Status	Retention Period	Automatic Deletion	
Keep all messages for at least 3 years	Enabled	3 years	Disabled	Delete al messages after 3
Delete all messages after 7 years	Enabled	7 years	Enabled	3
				Summary
				All messages
				7 years
				Messages are automatically dele at the end of the retention perio
				Properties Commands
				Priority
				Move Up Move Down
				Move up Move Down
				Status
				Policy is enabled
Create				₽ <u>a</u>
				OK Cancel Hel

Legal Hold

Enabling the *Legal Hold* feature temporarily prohibits deleting emails from the archive. This may become necessary in case of legal disputes to prevent the deletion of emails which may serve as evidence.

Auditor Access

With the *Auditor Access* feature, a special user can be set up in MailStore who has read-access to all user archives. Pleae note that a free MailStore user license is necessary to create the auditor user.

Under Auditor Access, click on Create Auditor User....

- In the Create Auditor User window, specify a password for the new auditor user. The user name is generated automatically.
- Click on *OK* to create the new user.

Auditor User Name: auditor-20140630-141027 Specify Password: ••••••• Repeat Password: ••••••• OK Cancel		Create Auditor User	×
		auditor-20140630-141027	
	Repeat Password:	••••	

Using MailStore Client, the auditor user can now log on to MailStore

Server and browse the archive. However, an auditor user can neither archive or export any emails nor change his or her own password.

5.12 Retention Policies

By default, MailStore allows the immediate deletion of archived emails by users with the privilege *Delete Emails*. With retention policies you can specify the maximum and minimum retention period of either all messages or only those that match certain search criteria. At the end of the retention period messages can be deleted from the archive either automatically by a corresponding retention policy or manually by users with sufficient privileges.

Retention Policy Basics

Every retention policy in MailStore consists of

- a priority that defines the order by which retention policies are processed,
- search criteria that determine whether a retention policy must be applied to a message,
- a retention period during which a message cannot be deleted,
- the option to automatically delete messages at the end of the retention period.

If a user with sufficient privileges attempts to delete a message manually, MailStore checks whether that a retention policy is applied to that message. The retention policy with the highest priority is processed first. Once the search criteria of a retention policy match a message, its retention period determines whether that message may be deleted. All remaining retention policies with a lower priority will not be processed because a message either gets deleted or must be retained.

The automatic deletion of messages is done by a system-generated job that processes all enabled retention policies daily by default. The effects of the parameters listed above on the processing of retention policies are explained in further detail below; examples are given at the end of this article.

Creating Retention Policies

- Log on to MailStore Client as MailStore administrator.
- Click on Administrative Tools > Compliance > Compliance General.
- In the Retention Policies section, click on Change...
- The dialog to manage retention policies opens.

Define retention policies to specify how long me processed from the top (highest priority) to the	ssages are kept within the	archive before they can be de	eleted. Optionally, an automatic deletion	at the end of the retention period can be enabled. Pe
Policies	boccont.			
Name	Status	Retention Period	Automatic Deletion	Rall
Keep all messages for at least 3 years Delete all messages after 7 years	Enabled	3 years 7 years	Disabled Enabled	Delete all messages
Delete all messages after 7 years	Enabled	7 years	Enabled	
				Summary
				All messages
				7 years
				Messages are automatic at the end of the retent
				at the end of the retent
				Properties Co
				Priority
				Phoney
				Move Up Mo
				Status
				Policy is enabled
Create				

- Below the retention policy list, click on *Create...*
- The New Policy dialog opens.

S	New Policy X	
S	New Policy	
	Name: Delete all messages after 7 years	
	Scope	
	• All Messages	
	\bigcirc Only messages that meet the below criteria	
	Search for:	
	Search in: Subject Attachment Contents	
	Message Body Attachment File Name	
	From:	
	To/Cc/Bcc:	
	Retention Period	
	Specify a retention period for messages that match the above filter. The retention date is calculated based on the archiving date.	
	7 years V	
	Automatic Deletion	
	\checkmark Delete messages at the end of the retention period.	
	OK Cancel Help	

- Enter an arbitrary name for the new retention policy.
- In the *Scope* section, configure whether the new retention policy applies to all messages or only to those that match certain search criteria.

Notice

Please note that search terms may contain wildcards and phrases but narrowing by fields and excluding words is not possible.

• In the *Retention Period* section, configure the retention period during which messages that this retention policy applies to cannot be deleted. The minimum retention period is one day, the maximum period 1000 years. The beginning of the period is always defined by a message's archiving date.

Important Notice

Both the archiving date and the retention policy depend on the system time of the MailStore Server. Please ensure that all settings (clock, time zone etc) that affect the system time in Windows are always correct.

• In the *Automatic Deletion* section, configure whether messages that this retention policy applies to should be deleted automatically at the end of the retention period.

Important Notice

The automatic deletion of messages is done by the system-generated job *Process Retention Policies* that runs nightly at 3:30am by default. If you disable or delete this job, messages will no longer be deleted automatically. You can recreate the job with the corresponding template at any time.

• Click OK to save the new retention policy.

Please note that the newly created retention policy has the lowest priority and is disabled by default. You can change these settings as described in the next section.

Modifying Retention Policies

This section describes how the various properties of retention policies can be changed at any time.

Change Priority

The priority determines the order by which retention policies are processed. The policy list shows retention policies ordered by descending priority; the policy with the highest priority is shown at the top.

By default, newly created retention policies get the lowest priority and are therefore shown at the bottom of the list. To change the priority of a retention policy, proceed as follows:

- Log on to MailStore Client as MailStore administrator.
- Click on Administrative Tools > Compliance > Compliance General.
- In the Retention Policies section, click on Change...
- The dialog to manage retention policies opens.
- In the policy list, right-click on the retention policy you want to change and click on *Move Up* or *Move Down* to increase or decrease its priority.

Change Status

Newly created retention policies are disabled by default and are therefore not taken into account for retention date calculation and automatic deletion. To change the status of a retention policy, proceed as follows:

- Log on to MailStore Client as MailStore administrator.
- Click on Administrative Tools > Compliance > Compliance General.
- In the Retention Policies section, click on Change...
- The dialog to manage retention policies opens.
- In the policy list, right click on the retention policy you want to change and check *Enabled* for MailStore to take that policy into account. Uncheck *Enabled* to have MailStore ignore the retention policy.

Change Name

To rename a retention policy, proceed as follows:

- Log on to MailStore Client as MailStore administrator.
- Click on Administrative Tools > Compliance > Compliance General.
- In the Retention Policies section, click on Change...
- The dialog to manage retention policies opens.
- In the policy list, right click on the retention policy you want to rename and select Rename....
- Enter a new name for the retention policy.
- Click OK.

Change Properties

To modify the properties of retention policies, proceed as follows:

- Log on to MailStore Client as MailStore administrator.
- Click on Administrative Tools > Compliance > Compliance General.
- In the Retention Policies section, click on Change...
- The dialog to manage retention policies opens.
- In the policy list, double-click on the retention policy you want to change or right click on it and select *Properties*.
- The Edit Policy dialog opens.

8	Edit Policy X
\$	Edit Policy
	Name: Keep all messages for at least 3 years
	Scope
	All Messages
	O Only messages that meet the below criteria
	Search for:
	Search in: Subject Attachment Contents
	Message Body Attachment File Name
	From:
	To/Cc/Bcc:
	Retention Period
	Specify a retention period for messages that match the above filter. The retention date is calculated based on the archiving date.
	3 years V
	Automatic Deletion
	Delete messages at the end of the retention period.
	OK Cancel Help

- Make the intended changes.
- Click OK.

Showing Retention Details

Retention policies determine the maximum and minimum retention date and optionally the automatic deletion of messages in the archive.

Between the archiving date and the minimum retention date a message cannot be deleted from the archive neither manually nor automatically. After the maximum retention date a message will be deleted from the archive automatically.

Between the minimum and maximum retention date a message can be deleted manually from the archive. Depending on the enabled retention policies, the minimum and maximum retention date of a message may be the same or the message is not subject to any policy at all.

To show the retention details, i.e. the effect of all enabled retention policies on a given message, proceed as follows:

- Log on to MailStore Client as MailStore administrator.
- Navigate to the message whose retention details you want to show, either through the folder structure or the search.
- In the message preview pane, click on *Retention Details*.



• The *Retention Details* dialog opens. If applicable, the minimum and maximum retention date and the corresponding retention policies are shown.



• By clicking on a retention policy you can view its details directly.

S	Policy Details 🛛 🗙
S	Policy Details
	Name: Delete all messages after 7 years
	Scope
	All Messages
	O Only messages that meet the below criteria
	Search for:
	Search in: Subject Attachment Contents
	Message Body Attachment File Name
	From:
	To/Cc/Bcc:
	Retention Period
	Specify a retention period for messages that match the above filter. The retention
	date is calculated based on the archiving date.
	7 years V
	Automatic Deletion
	Delete messages at the end of the retention period.
	ОК

Examples

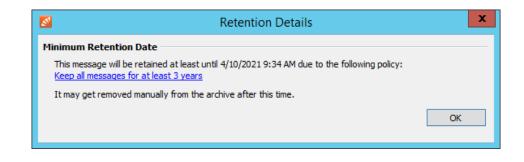
The following examples detail the effects of priority, retention period and automatic deletion setting on the processing of retention policies. For simplicity, the retention policies shown are applied to all messages. The message whose retention details are shown was archived on 4/10/2018 at 9:34:19 AM.

Example 1: No Automatic Deletion

Scenario

One retention policy that defines a retention period of 3 years and no automatic deletion.

processed from the top (highest priority) to the	bottom.			
Policies				
Name	Status	Retention Period	Automatic Deletion	0
Keep all messages for at least 3 years	Enabled	3 years	Disabled	Keep all messages for a
				Summary
				All messages
				3 years
-				Properties Commar
				Properties Comman
				Priority
				Move Up Move Do
				Status
				Policy is enabled
				Policy is enabled



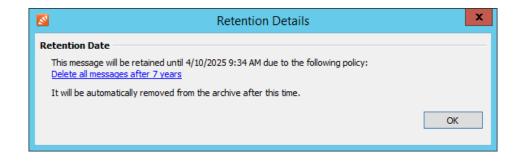
The only retention policy defines a retention period of 3 years and no automatic deletion. Messages can therefore not be deleted for at least 3 years starting from the archiving date (minimum retention date). As there is no automatic deletion configured, there is also no maximum retention date.

Example 2: Automatic Deletion

Scenario

One retention policy that defines a retention period of 7 years and automatic deletion.

Policies				
Name	Status	Retention Period	Automatic Deletion	
Delete all messages after 7 years	Enabled	7 years	Enabled	Delete all messages after 7
				Summary
				All messages 7 years
				Messages are automatically dele
				at the end of the retention period
				Properties Commands
				Priority
				Move Up Move Down
				Status
				Policy is enabled
				Poicy is enabled



The only retention policy defines a retention period of 7 years and automatic deletion. Messages will therefore be retained for exactly 7 years starting from the archiving date and be deleted automatically afterwards; thus minimum and maximum retention date are identical.

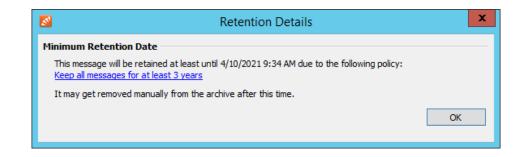
Example 3: Different Retention Periods

Scenario

A retention policy with highest priority that defines a retention period of 3 years and no automatic deletion.

A retention policy with lowest priority that defines a retention period of 7 years and no automatic deletion.

Define retention policies to specify how long met	ssages are kept within the	archive before they can be de	leted. Ontionally, an automatic o	deletion at the end of the retention period can be enable	ed. Policies
processed from the top (highest priority) to the	bottom.				.arrender
Policies					
Name Keep all messages for at least 3 years	Status Enabled	Retention Period 3 years	Automatic Deletion Disabled		
Keep all messages for at least 7 years	Enabled	7 years	Disabled		
heep on messages for acteusery years		, , , , , , , , , , , , , , , , , , , ,			
				- Canala - C	



The retention policy with highest priority defines a retention period of 3 years and no automatic deletion. Messages can therefore not be deleted for at least 3 years starting from the archiving date (minimum retention date).

The retention policy with lowest priority defines a retention period of 7 years and also no automatic deletion. This retention policy has no effect because a retention policy with a higher priority and identical settings for automatic deletion (no automatic deletion) matched first (overlapping search results).

Essentially, this (nonsensical) configuration yields the same results as in example 1.

Example 4: Different Retention Periods and Deletion Settings

Scenario

A retention policy with highest priority that defines a retention period of 3 years and no automatic deletion.

A retention policy with lowest priority that defines a retention period of 7 years and automatic deletion.

		Retention Po	olicies	
Retention Policies Define retention policies to specify how long me rocessed from the top (highest priority) to the Policies	ssages are kept within the bottom.	archive before they can be de	leted. Optionally, an automatic deletion	at the end of the retention period can be enabled. Policies are
Name	Status	Retention Period	Automatic Deletion	
Keep all messages for at least 3 years	Enabled	3 years	Disabled	Delete all messages after 7
Delete all messages after 7 years	Enabled	7 years	Enabled	0
				Summary
				All messages
				7 years
				Messages are automatically delet at the end of the retention perior
				Properties Commands
				Priority
				Move Up Move Down
				Hore op
				Status
				Policy is enabled
Create				Ra .
				OK Cancel Help

Retention Details	x
Minimum Retention Date	
This message will be retained at least until 4/10/2021 9:34 AM due to the following policy: Keep all messages for at least 3 years	
Maximum Retention Date	
This message will be retained at most until 4/10/2025 9:34 AM due to the following policy: Delete all messages after 7 years	
It will be automatically removed from the archive after this time.	
	ОК

The retention policy with highest priority defines a retention period of 3 years and no automatic deletion. Messages can therefore not be deleted for at least 3 years starting from the archiving date (minimum retention date).

The retention policy with lowest priority defines a retention period of 7 years and automatic deletion. Although there already is a matching retention policy with a higher priority (overlapping search results), this policy is applied to the message due to the different setting for automatic deletion. Messages will therefore be deleted automatically after 7 years starting from the archiving date at the latest (maximum retention date).

Between the minimum and maximum retention date messages can be deleted manually from the archive by users with sufficient privileges.

Example 5: Different Retention Periods and Deletion Settings but Wrong Priority

Scenario

A retention policy with highest priority that defines a retention period of 7 years and no automatic deletion.

A retention policy with lowest priority that defines a retention period of 3 years and automatic deletion.

Policies				
Name	Status	Retention Period	Automatic Deletion	
Keep all messages for at least 7 years	Enabled	7 years	Disabled	
Delete all messages after 3 years	Enabled	3 years	Enabled	

Retention Details	x
Retention Date This message will be retained until 4/10/2025 9:34 AM due to the following policy: Keep all messages for at least 7 years It will be automatically removed from the archive after this time due to the following policy Delete all messages after 3 years	:
	ОК

The retention policy with highest priority defines a retention period of 7 years and no automatic deletion. Messages can therefore not be deleted for at least 7 years starting from the archiving date (minimum retention date).

The retention policy with lowest priority defines a retention period of 3 years and automatic deletion. Although there already is a matching retention policy with a higher priority (overlapping search results), this policy is applied to the message due to the different setting for automatic deletion. However, the retention policy with the higher priority has already defined a retention period of 7 years. Messages will therefore be deleted automatically after 7 years starting from the archiving date at the earliest.

Essentially, this (nonsensical) configuration yields the same results as in example 2.

5.13 Auditing

With MailStore Server, specific events can be written into MailStore's own audit log or the Windows event log, allowing you to track the activities of both MailStore administrators and users. This enables a company's compliance officer, for example, to monitor compliance with legal and operational regulations.

Specifying the Audit Log Destination

The destination for logging of audit events can be configured in the MailStore Server Service Configuration. By default, MailStore's own audit log is used which can be viewed under *Administrative Tools > Compliance > Audit Log*. As an alternative, audit events can be written into the Windows application event log. In that case the MailStore's own audit log is not accessible by the MailStore Client anymore.

Changing the Auditing Settings

Under *Administrative Tools* > *Compliance* > *Auditing* you can configure which user activities should be logged by MailStore. Activities performed by MailStore administrators will always be written into the audit log.

To change the auditing settings, please proceed as follows:

Archive	Auditing				
uick Search admin's Archive Search Start Page		Here you can specify which successful u with the guidelines of your organization User Activities	user activities will be written to the audit log. Please make sure that o All changes on this page are logged.	hanges comply	
 Archive E-mail Export E-mail Recent Results Administrative Tools Administrative Tools Compliance Compliance Compliance Auditing Auditing Auditing Storage Miscellaneous 		User Activity AdminRestored ComplianceChangeSettings FileGroupAtach FileGroupDetach FileGroupDetAch FileGroupDetProperties FileGroupDetPr	Description Restore the default administrator user 'admin'. Change compliance settings. Attach an archive store. Create an archive store. Detach an archive store. Detach an archive store? Rename an archive store? Modify an archive store? sequested state. Moder or ename a folder. Delete a message. Moder or ename a folder. Delete a message. Retrieve a complete message, its message body or an attachment. Perform a search. Create a profile. Change a profile. Change a profile. Change a profile. Rename a profile. RecoverStore has finished. Start RecoverStore. Delete a message through processing of retention policies. Start processing of retention policies.	Auditing All Users Only Administrators Al Users Al Users Al Users	
		RetentionPoliciesUpdate SessionLogin SessionLogout UserAdd	Change retention policies. User login. User logiout. Create a user.	Al Users Al Users Al Users Al Users Al Users	

- From the list, select the event whose auditing status you would like to change.
- Change the auditing status via the drop-down list.

Activities that can only be performed by MailStore administrators are listed with the auditing status *All Users* that cannot be changed.

Please note that some events (e.g. MessageRetrieveContent) may generate a large number of entries in the audit log. Only enable such events if you are sure that you need that information.

5.14 Audit Log

If MailStore's own audit log is used for logging audit events (default), this audit log can be retrieved via MailStore Client.

Please note: If the Windows Eventlog is used as destination for logging of audit events, the *Audit Log* option at *Administrative Tools > Compliance* is not shown. In that case, use the your favorite method for retrieving information from the Windows Eventlog.

Retrieving the Audit Log

To retrieve information stored in MailStore's own audit log, proceed as follows:

- Start MailStore Client and log on as a MailStore administrator (*admin*).
- Click Administrative Tools > Compliance and then Audit Log.
- The events to be fetched from the audit log can be filtered by modifying the settings for *Date Range*, *User Name*, *User Activity Type* and *Maximum Number of Results*.
- Click on Retrieve.
- The matching events are shown in the table. To show further details of an event, double-click on the corresponding table row.

5.15 Storage Locations

A MailStore archive physically (i.e. on the storage) consists of individual archive stores, each with its own database, search indexes and data containers. By default, MailStore Server automatically creates and activates a new archive store every 5 million emails to immediately archive new emails in it.

To MailStore users these archive stores are fully transparent; they have access to all archived emails in all active archive stores and thus get a logical view on the archive according to their respective privileges.

Under *Administrative Tools* > *Storage* > *Storage Locations* you can configure the parameters of the archive stores' auto-create, manually create new archive stores and manage the archive's existing archive stores. You can also view the location of the master database here.

Changing the Storage Location of the Master Database

The storage location of the master database can only be viewed here. In case the MailStore Client is started on the MailStore Server machine, clicking on *Change...* closes the MailStore Client and starts the MailStore Server Service Configuration.

Archive Store Basics

In MailStore, there are two types of archive stores: Internal Archive Stores and External Archive Stores.

Internal archive stores are stored entirely in configurable file system directories and can be created, managed and backed up automatically by MailStore. For most environments using internal archive stores is recommended.

External archive stores offer storage in SQL databases, but have several limitations. Information about external archive stores is available in chapter Using External Archive Stores.

Both internal and external archive stores always consist of the following three components:

Folder Information and Meta Data

Contains all data needed for the construction of the folder structure and the email list.

- Email Headers and Contents Contains the actual payload of the archive.
- Full Text Index Contains all data needed for searching through emails and attachments. The full text index can be reconstructed at any time. Additional information is available in chapter Search Indexes.

MailStore archive stores as a whole as well as their individual components can be put on different physical storage locations, including network based storages. For additional information, please refer to the article Using Network Attached Storage (NAS).

Important notice: When choosing the physical storage system, please attend to the System Requirements.

Creating Archive Stores

In MailStore, archive stores can be created automatically and manually. For most environments using the auto-create feature is recommended.

Creating Internal Archive Stores Automatically

By default, MailStore Server creates a new internal archive store for about every 5 million emails and archives new emails therein. In practice, this value has proven to be suitable for most environments; therefore, when changing this default setting, do not select a value that leads to the creation of new archive stores too frequently.

Important notice: The triggers *Quarterly, Monthly* and sizings well below 5,000,000 emails or their gigabyte equivalent should be considered deprecated and are not recommended. Future versions of MailStore may no longer support these settings.

To change these settings, please proceed as follows:

• Below the list of archive stores, click on the *Create automatically...* button.

The *Auto-Create Archive Stores* dialog opens.

- Customize the settings as preferred.
- Under *Base directory* enter the directory below which you want MailStore to create the new internal archive stores. The internal archive stores that are created automatically by MailStore, including any subfolders, follow the naming scheme *year-month*, e.g. 2016-11.
- Optional: With the option Use different base directories for databases, content and search indexes you can configure separate directories for the individual components of an archive store. For example, you can put database and search index on a fast storage to accelerate folder operations

8	Auto-Create Archive Stores
	Auto-Create Archive Stores
	MailStore Server checks for the need to create a new archive stores every few minutes. Please note that for this reason archive stores might grow a little bit more than configured here.
	Trigger
	○ Disabled
	○ Yearly
	○ Quarterly
	O Monthly
	 If the current archive store has either:
	✓ 5000000 or more messages -or-
	or more gigabytes of size
	Storage Locations
	Use different base directories for databases, content and search indexes
	Base Directory: C: \MailArchive \
	OK Cancel Help

and the MailStore search while leaving the email content files on a slower storage.

• Click on OK.

Creating an Internal Archive Store Manually

Enter a name for the new internal archive store in the *Name* field, e.g. 2016-11.

- If you don't want MailStore to archive new emails in the new archive store, deselect the option *Archive new messages here*.
- From the name entered and the path of the master database MailStore derives a base directory for the new internal archive store. By default, MailStore stores all components of an archive store in a folder structure that is created automatically below the base directory. You can optionally either change the proposed path manually or select an existing directory; an existing directory must not contain any files or subfolders.
- Optional: With the option Use different base directories for databases, content and search indexes you can configure

Create New Arcl Please enter a meaningful na "Messages 2012" or "2012-01	me for the archive store. Examples:
Please enter a meaningful nai "Messages 2012" or "2012-01	me for the archive store. Examples: "
Name:	2016-11
	✓ Archive new messages here
Storage Locations	
Please enter the directories in enter local directories and net	which the archive store's components are stored. You can work shares.
Use different directories f	or database, content and search index
Base Directory:	C:\MailArchive\2016-11
Cancel	< Back Finish Help

separate directories for the individual components of an archive store. For example, you can put database and search index on a fast storage to accelerate folder operations and the MailStore search while leaving the email content files on a slower storage.

		Mai	IStore Server 10		_ _ ×
Archive	Storage Locations				2
Archive Search Quick Search admin's Archive Search Image: Start Page Image: Search E-mail Image: Archive E-mail Image: Archive E-mail Image: Archive E-mail	MailStore Serve	ber of archive stores, for example, o Dase C:\HailArchive Chan	one per quarter or per year	Messages 5.765 5.751 5.746	2016-12 Summary Internal Archive Store C: MailArchive (2016-12
	Create	Create automatically	Attach	Show Size (slow)	State: Archive Here V Edit Maintenance V
					Connected to MAILSTORE

Setting the Status

Right-click on an archive store and select the status from the *Set Status* submenu. As an alternative, you can select an archive store and set the status via the drop-down list in the details pane on the right of the archive store list. You can set the following status:

• Archive here

In MailStore, there can only be one archive store with this status. All newly archived emails are written into this archive store. The emails are available to all MailStore users and can be located by searching and through the folder structure. Emails in this archive store can be deleted or moved according to configured user privileges and compliance settings.

• Normal

Emails in archive stores with status *Normal* are available to all MailStore users and can be located by searching and through the folder structure. Emails in this archive store can be deleted or moved according to configured user privileges and compliance settings.

• Write-Protected

Irrespective of user privileges and compliance settings, emails in write-protected archive stores can only be accessed read-only. The emails are available to all MailStore users and can be located by searching and through the folder structure. However, emails in such archive stores cannot be deleted or moved.

Notice: Please note that file system write access to the directory of the archive store is still required and that this status prevents automatic processing of retention policies.

• Disabled

Disabling an archive store allows you to make changes to its configuration. This may be necessary after Moving the Archive, for example. While an archive store is disabled, the emails contained therein are not available to the archive.

Notice: Please note that this status prevents the execution of archiving profiles.

Editing

Through the context menu item *Edit...* you can change the name and the directories of an archive store with status *Disabled*.

Renaming

Through the context menu item *Rename...* you can change the name of an archive store irrespective of its status.

Detaching

Through the context menu item *Detach* you can detach an archive store from the archive, for example if all email contained therein do no longer have to be archived. The detached archive store and the emails contained therein are no longer available to the archive.

Attaching

A detached archive store can be reattached to the archive using the *Attach...* button. If the archive store cannot be decrypted automatically, you will be asked for the respective recovery key. For example, this could be the case for archive stores that belonged to another MailStore installation or which have been moved from another machine. You can find more information on the recovery key in section Security and Encryption of chapter MailStore Server Service Configuration.

Unlocking

If an archive store cannot be decrypted automatically, it will be listed as *Locked* in the list of archive stores. Through the context menu item *Unlock* or by changing the status you will be asked for the respective recovery key. You can find more information on the recovery key in section Security and Encryption of chapter MailStore Server Service Configuration.

Maintenance of Archive Stores

All available maintenance commands can be accessed through the context menu of the list of archive stores. Alternatively, you can select an archive store and click on the *Maintenance* drop-down list in the details pane. The following commands are available:

- *Cleanup (Compact)* Optimizes the data structures while compacting the data.
- Check Data Integrity Verifies the data integrity between "Folder Information and Meta Data" as well as "Email Headers and Contents".
- *Maintain All FDB Files* Maintains the master database and all databases of internal archive stores.
- *Recalculate all statistics* Recalculates the statistics (number of emails per archive store) for all archive stores.

Maintenance commands can also be scheduled for automatic execution via Jobs.

5.16 Search Indexes

MailStore Server offers users an extremely fast full-text search. All emails a user has read-access to are searched, in most cases in only fractions of a second. To ensure this remarkable speed, MailStore Server sets up so-called search indexes during archiving. They work in a way similar to the indexes often found in the back of books: looking up something in an index gets results significantly faster than searching each single page.

MailStore Server maintains one index file each

- per file group and
- per user.

MailStore Server can index all file types for which a so-called IFilter is installed on the MailStore Server computer. Typically, IFilters exist at least for all applications which are installed on the respective machines.

For reasons of stability and performance, MailStore Server processes the following file types directly, regardless of the IFilters that are installed:

- Text files (TXT)
- HTML files (HTM and HTML)

Typical tasks regarding indexes are described in the following sections.

Install Missing IFilters

Typically, IFilters exist at least for all applications which are installed on the respective machines. If, for example, Microsoft Office 2013 is installed, the corresponding IFilter for Microsoft Office documents are installed as well.

Install the following IFilters on the MailStore Server computer to index the corresponding file types. Restart the MailStore Server service after the IFilter installation to let MailStore detect the newly installed IFilters.

• Plain Text Files (TXT, CSV)

The IFilter responsible for these file types is shipped with Windows by default. In case this option is disabled, a registry values might be wrong. Open the registry editor and verify that the *Default* value of the key *HKEY_LOCAL_MACHINE\SOFTWARE\Classes\.csv\PersistentHandler* is set to {*5e941d80-bf96-11cd-b579-08002b30bfeb*} and correct it if necessary.

Portable Document Format (PDF)

For indexing PDF attachments, install Adobe PDF iFilter ^[1] on 64bit operating systems, or Adobe Acrobat Reader 11 ^[2] on 32bit operating systems.

Important Notices:

- Take note of the installation instructions ^[1] of the 64bit IFilter. Especially adding the *bin* folder of the IFilter installation folder to the *PATH* system variable increases indexing speed a lot. The *PATH* system variable can be adjusted as administrator via
 - windows key + R > rundll32 sysdm.cpl,EditEnvironmentVariables
- Newer versions of Adobe Acrobat Reader do not contain an IFilter. Thus, please deactivate the automatic update function of Adobe Acrobat Reader 11.
- Microsoft Office (97-2003), Microsoft Office (2007 and later),

All these file types are supported by the Microsoft Office 2010 Filter Pack ^[3].

Open Document Format (Libre Office/Open Office)

These file types require a working installation of OpenOffice or LibreOffice^[4]. Latest version tested was *LibreOffice 5.1*.

Notice: Though Microsoft's Office 2010 Filter Pack registers support for Open Document Format files, indexing does not work with that IFilters.

Additional information about IFilters can be found in the corresponding Wikipedia article.

Setting Up Indexing for the Contents of File Attachments

In the standard configuration, MailStore Server includes the file names of file attachments in the search indexes but not their contents. To enable MailStore Server to search the contents of file attachments, it has to be configured accordingly. Please proceed as follows:

- Start *MailStore Client* and log on as administrator (*admin*).
- Click on Administrative Tools > Storage and then on Search Indexes.
- In the area Attachments click on Change...
- Select the file type groups or enter a space separated list of file extensions of attachment types you would like archive in the text field below Other File Extensions.

Attachments ×
If you would like to add attachment contents to the index, specify the file extensions here.
✓ Plain Text Files File extensions: txt csv
 Portable Document Format (PDF) File extensions: pdf
 Microsoft Office (97-2003) File extensions: doc dot ppt pot pps xls xlt
✓ Microsoft Office (2007 and later)
File extensions: docx dotx pptx xlsx
Open Document Format (Libre/Open Office)
File extensions: odt ods odp
Other File Extensions
Add additional file extensions below. Example: pub rtf html
html pub rft
OK Cancel Help

• Click on OK to save the settings.

MailStore displays a notice, if file extensions were added for which no IFilter is installed on the MailStore Server machine.

The new settings apply to all emails that are archived as of now. To apply the settings to already archived emails, rebuild the appropriate search indexes as described below.

Rebuilding Search Indexes

Normally, the creation, maintenance and usage of search indexes is completely transparent meaning that neither administrators nor MailStore users need to know of their existence or their internal workings. In some cases, however, some maintenance may become necessary. For example:

- because of power outage,
- because of unexpected termination of the MailStore Server service
- because of missing network connectivity (only with storage on an NAS),
- · because of changes to the index configuration or
- when restoring restoring backups without search indexes.

In these cases it may occur that archive, index and settings are no longer synchronous and that individual indexes must be rebuilt. Generally, a corresponding error message will be displayed. In case multiple indexes should be rebuilt, make sure other processes such as archiving profiles, exporting profiles or jobs are paused, or else the indexing process may get interrupted.

To rebuild search indexes please proceed as follows:

- Start MailStore Client and log on as administrator (admin).
- Click on Administrative Tools > Storage and then on Search Indexes.
- Check all search indexes to be rebuilt. Indexes with the status *Please Rebuild* are already checked for your convenience.
- Click on Rebuild Search Indexes.

Attachments						
Attachments currently inde	exed: txt htm html pdf	doc docx xls xlsx pp	t pptx odt ods	odp spx	Change	
Search Indexes						
Search Indexes						
Archive Store	Archive	Search Index	File Size	Status		
🗌 🗟 11 - 2014-01-13	adam.tunney	Index0136.dat	46,895 KB	OK		
🗌 🗟 11 - 2014-01-13	alberto.charles	Index0137.dat	58,258 KB	OK		
🔲 🙇 11 - 2014-01-13	alex.martin	Index0138.dat	36,592 KB	OK		
🗌 🗟 11 - 2014-01-13	alice.bailey	Index0139.dat	65,815 KB	OK		
🗌 🗟 11 - 2014-01-13	alma.hart	Index0140.dat	64,311 KB	OK		
🔲 🗟 11 - 2014-01-13	amy.fernandes	Index0141.dat	99,807 KB	OK		
🗌 🗟 11 - 2014-01-13	amy.pridemore	Index0142.dat	65,983 KB	OK		
🗌 🗟 11 - 2014-01-13	andrew.speaks	Index0143.dat	63,304 KB	OK		
🔲 🙇 11 - 2014-01-13	anita.yarger	Index0144.dat	63,592 KB	OK		
🗌 🗟 11 - 2014-01-13	ann.bozeman	Index0145.dat	36,597 KB	OK		
🔲 🙇 11 - 2014-01-13	anna.avery	Index0146.dat	102,706 KB	OK		
🗌 🙇 11 - 2014-01-13	arnold.vela	Index0147.dat	61,661 KB	OK		
🔲 🗟 11 - 2014-01-13	barbara.childress	Index0148.dat	63,346 KB	OK		
🔲 🗟 11 - 2014-01-13	barbara.ross	Index0149.dat	64,430 KB	OK		
🔲 🗟 11 - 2014-01-13	barton.stevens	Index0150.dat	51,691 KB	OK		
🗌 🙇 11 - 2014-01-13	becky.martin	Index0151.dat	59,202 KB	OK		
🗌 🙇 11 - 2014-01-13	ben.christy	Index0152.dat	35,975 KB	OK		
🗌 🙇 11 - 2014-01-13	bernice.arnold	Index0153.dat	36,988 KB	OK		
🗌 🙇 11 - 2014-01-13	beverly.darrington	Index0154.dat	65,475 KB	OK		
🔲 🙇 11 - 2014-01-13	blaine.robinson	Index0155.dat	60,914 KB	OK		
11 - 2014-01-13	bob.quesenberry	Index0156.dat	35,513 KB	OK		

References

- [1] http://www.adobe.com/support/downloads/detail.jsp?ftpID=5542
- [2] https://www.adobe.com/support/downloads/thankyou.jsp?fileID=5519&ftpID=5507
- [3] https://www.microsoft.com/en-us/download/details.aspx?id=17062
- [4] https://www.libreoffice.org/

5.17 Backup and Restore

Backup

Preliminary Considerations

MailStore Server supports two methods to perform a full backup of the email archive including all user settings: the MailStore integrated backup feature and the use of external backup software.

Which method suits the needs of your business best depends on your preferences as well as your system environment. In smaller environments without a designated administrator, with the integrated backup feature no extensive configuration needs to be performed in order to make sure that the backup is successfully completed and that all pertinent data and directories are included. However, to be able to transfer the data (for example to Digital Linear Tape), it is necessary to integrate the backed up data into another system backup.

When using external backup software (e.g. Veeam, Windows Server Backup or Acronis True Image,) a successful backup needs a few preparations. On the plus side, MailStore Server data can be integrated into existing backup strategies without having to perform a separate system backup.

Which Data Must be Backed Up?

Each archive store in MailStore consists of three components:

- Folder information and meta data
- Email headers and contents
- Full text index

While *folder information and meta data* as well as *email headers and contents* are a unit that requires consistency, *full text indexes* can be reconstructed if needed. In environments with higher security demands, and depending on the backup target, it may be advisable to exclude the unencrypted full text indexes from the backup.

In addition to the archive stores, the MailStore master database (MailStoreMaster.fdb) must be backed up as well because it contains all configuration settings such as users and profiles.

Using the MailStore Integrated Backup Feature

MailStore has built-in technology to perform a full backup of the archive.

The backup contains all archived emails and all program settings such as users and privileges. Restoring such a backup is sufficient to completely reinstate the original archive without having to perform any further configurations.

Important Notice: When using the integrated backup feature, MailStore only supports internal archive stores. If you are using external archive stores, you need external backup software to perform a full backup .

Procedure

To create a complete database backup, proceed as follows:

- Log on to MailStore Client as MailStore administrator.
- Click on Administrative Tools > Management API > Jobs.
- Click on Storage and select Create Backup.

		New Job	x
1	New Job		
	Name:	Create Backup]
	Common Setti	ngs	
	Please configure	the Target Directory for your backup here.	
	Target Directory:	C:\Backup\MailArchive]
		Exclude Search Indexes	
	Schedule		
	Please configure	the schedule on which to execute the job.	
	Recurrence:	Daily V	
	Daily at:	02:00	
	Time Zone		
	(UTC +01:00) Am Vienna	sterdam, Berlin, Bern, Rome, Stockholm,]
		OK Cancel Help	

• Enter the *target directory*.

Please note: If the target directory is a network share, make sure that the MailStore Server service has access to that share. The path to the network share has to be entered in UNC notation, e.g. \\computer\sharename. Further information is available in the Using Network Attached Storage (NAS) article.

• The search indexes can be excluded optionally.

Please note: This option can be set so that administrators which have access to the backup files cannot access the unencrypted search index files. When restoring backups that do not include search indexes, the search indexes have to be rebuilt.

- Define the start time for the backup in the Schedule section.
- Click OK to finish the creation of the backup job.

If necessary, run the job manually in order to verify that MailStore Server is able to create a backup without errors.

Please note: The archive cannot be accessed while a backup is in progress. Trying to access the archive will generate the error message *The server is currently not available due to maintenance*.

Using External Backup Software

Backup of Internal Archive Stores

When backing up internal archive stores with an external backup software, attention must be payed to the consistency of data which mainly depends on the backup method. The following sections summarize the pros and cons of the different methods.

File Based Backups

While file based backups solutions are good for backing up independent files, they are usually not suitable for creating consistent backups of a MailStore Server as its data is spread across multiple rapidly changing files.

In order to create consistent backups with file based backup tools, it is required to either freeze and thaw MailStore Server via net pause mailstoreserver and net continue mailstoreserver commands or to shutdown and restart the MailStore Server via net stop mailstoreserver and net start mailstoreserver commands.

As MailStore Server must remain shut down for the time of the backup, this typically results in downtimes during which MailStore is neither able to archive new email nor provide end user access to the archived data.

Storage Snapshots

When using Volume Shadow Services (VSS) or other methods of creating snapshots on storage level, it is necessary to ensure that all files are closed before the snapshot is created.

The MailStore Server service provides external backup software using Microsoft Volume Shadow Service with a so-called Volume Shadow Service Writer (VSS Writer). The external backup software can use it to create consistent backups of the MailStore master database and all internal archive stores. Whether this method succeeds, however, largely depends on the backup software and the storage that is used. The VSS Writer has to be activated in the MailStore Server Service Configuration.

To verify if the appropriate VSS events were initiated in MailStore during a backup, open the application protocol in the Windows event viewer and search for the following events:

- 1. A backup session has been started.
- 2. The archive has been frozen as a reaction on the OnPrepareSnapshot event.
- 3. The archive has been thawn as a reaction on the OnThaw event.
- 4. The backup session has been shut down.

If these events cannot be found in the application protocol, no consistent backup using Volume Shadow Service was performed. In that case the backup software needs to prepare MailStore Server for the snapshots. This can be done with the methods detailed in the File Based Backups section.

For how to execute commands before and after performing snapshots, please consult your backup software's documentation.

Full Virtual Machine Snapshots

Some backup solutions are highly integrated into virtualization solutions and can create and backup/replicate full snapshots of virtual machines. These types of snapshots not only contain the current state of the hard disks but also of the current main memory. Thus full virtual machine snapshots can be considered as being consistent.

Other Backup or Replication Methods

For questions regarding any other type of backup solutions such as block level replication, continuous backup etc please contact the vendor's support to find out whether their software is able to create consistent backups of whole directory structures.

Backup of External Archive Stores

External archive stores allow you to store folder information and meta data in an SQL database. Email headers and contents can be stored optionally in an SQL database as well. Search index files have to be stored in the file system.

To backup external archive stores, the distributed data has to be backed up simultaneously. Stop the MailStore Server service, backup the SQL databases and the files that are stored in the file system with appropriate backup tools, then restart the MailStore Server service when done.

You can stop and start the MailStore Server service by executing the net stop mailstoreserver and net start mailstoreserver commands.

In case the unencrypted search index files are not backed up, you can rebuild them after restoring the backup.

Restoring Backups

This section describes how a database backup of the entire email archive, which was created using the integrated backup feature, can be restored.

Background

A database backup which was created using the integrated backup feature and that includes the search index files contains all archived emails and program settings such as users and privileges. Restoring such a backup is sufficient to completely reinstate the original archive without having to perform any further configurations.

Automatic Restore of a Database Backup

MailStore creates two files in the backup destination when creating a backup which allow an automatic full restore of the archive in its original storage location. Should the backup be restored to a different storage location or if only parts (i.e. a single archive store) should be restored, the restore procedure must be performed manually (see next section).

An operative installation of MailStore Server is required to restore a database backup. Please proceed as follows:

- Stop the MailStore Server Service and delete the empty archive that has been created during installation in *C*:*MailArchive*.
- Next execute the file *restore.bat* from the backup directory.
 Note: Is the file located on a network share, e.g. \\nas01\MailStoreBackup, you first have to crate a mapped drive of that share, e.g. *N*:, and then execute the file on that drive.
- Follow the on-screen instructions. Carefully check the output for possible error messages.
- Run the MailStore Server Service Configuration tool from the MailStore program folder in the Windows start menu.
- Click *Browse…* under *General* > *Master Database* and select the restore directory which contains the *MailStoreMaster.fdb* file. Confirm the selection by clicking *OK*.
- Finally start the MailStore Server Service again.

In case the backup includes the search index files, no further steps are necessary after using the automatic restore. Otherweise the search indexes have to be rebuild.

Manual Restore of a Database Backup

An operative installation of MailStore Server is required to restore a database backup. Please proceed as follows:

- Copy the database backup to a local hard drive on the computer or to a respective network share.
- Start the MailStore Server Service Configuration. It is located in the MailStore Server program folder that can be accessed through the Windows Start menu.
- Below Master Database, click on Browse... and select the backup directory containing the file MailStoreMaster.fdb.

General			
Master Databa	se		
		hich directory MailStore Server should use to store its settings, the user databases. In order to create an empty master database, specify an empty directory.	se and, by default, all
	Directory:	C: WailArchive	Browse

- Click on OK to confirm.
- At the bottom of the window, click on *Restart Service* to save the new settings.
- When creating the backup, the folder names of the archive store may have changed. Please use the Storage Locations Management to adjust the paths to the archive stores or rename the folders in the file system accordingly. The mapping of the backup's archive store folder names to their original names can be found in the *restore.csv* file that has been created with the backup.

In case the backup includes the search index files, no further steps are necessary after the restore. Otherweise the search indexes have to be rebuilt.

5.18 License Management

The license management in MailStore allows you to install or update your MailStore Server license and gives an overview of the license currently in use. Furthermore the *Open Online-Shop* button provides direct access to our online shop, where, for example, license renewals or upgrades can be purchased.

In case the automatic retrieval of the license information is blocked, the license file can be downloaded manually ^[1].

Please notice: License holders that have not purchased their license directly from MailStore Software must contact their reseller for any license related topics.

Activ Lexexexatury 2 Contraction Sudden	8	MailStore Server 10	_ D X
Startesite E-Mails suchen E-Mails archiveran E-Mails rocheran E-Mails	Archiv	Lizenzverwaltung	3
E-Mails exporteren Image: Letzte Ergebrisse Image: Letzte Er	Image: Startseite ▷ Ø E-Mails suchen	MallStore Server setzt einen gültigen Produktschlüssel oder eine Lizenzdatei voraus.	
Storage Management API Imagement API <td< th=""><th> E-Mails exportieren Letzte Ergebnisse Werwaltung Benutzer und Archive </th><th>Die installerte Testizenz ist gültig.</th><th></th></td<>	 E-Mails exportieren Letzte Ergebnisse Werwaltung Benutzer und Archive 	Die installerte Testizenz ist gültig.	
Besuchen Sie den MalStore Online-Shop, um neue Lizenzen oder zusätzliche Benutzer Online-Shop öffnen	 ▷ > Storage ▷ > Wanagement API > > Werschiedenes > 	License-Type: MSV3 ALICENSE AL	
Verbunden mit MALLSTORE		Besuchen Sie den MaliStore Online-Shop, um neue Lizenzen oder zusätzliche Benutzer Online-Shop öffnen	

References

[1] https://my.mailstore.com/softwareactivation

5.19 SMTP Settings

To be able to send emails, MailStore Server requires SMTP access data. MailStore sends notifications by email if product updates are available or if the automatic creation of a new archive store failed. Furthermore, email copies for the restore from MailStore Web Access can be sent via SMTP.

8	MailStore Server 10	_ D X
Archive	SMTP Settings	2
Quick Search admin's Archive Search	In order to be able to send e-mail, MalStore Server needs SMTP login details.	
Archive E-mail Export E-mail Recent Results	Connectionsmp.example.com	
Idministrative Tools Image: Series and Archives Image: Storage Image: Storage	Port: 587 Protocol: SMTP-TLS ♥ ☐ Ignore SSL Warnings ✔ Server requires authentication	
 Management API Miscellaneous License Management 	User Name: mailstore Password: Sender	
SMTP Settings Active Sessions Product Updates About MaiStore Server	Display Name: MailStore Server E-mail Address: mailstore@example.com	
	Recipient for Notifications E-mail Address: administrator@example.com	
	Apply and Te	st
		Connected to MAILSTORE

Under Administrative Tools > Miscellaneous > SMTP Settings you can specify the SMTP settings.

- Start MailStore Client and log on as MailStore administrator (admin).
- Click on Administrative Tools > Miscellaneous and then on SMTP Settings.
- Under Server, enter the host name of the SMTP server or its IP address.
- By default, MailStore uses port 587. If you want to use a different port, enter port number in the Port field.
- In the field *Protocol*, select *SMTP* for an unencrypted connection to the SMTP server. For an encrypted connection, select *SMTP-TLS* or *SMTP-SSL*. If the SMTP server does not have an official or installed SSL certificate, check *Ignore SSL Warnings*; otherwise, the sending process will fail.
- Especially SMTP servers which are accessible through the internet require a login (SMTP authentication). Check the corresponding checkbox and enter the appropriate access data. In most cases, the POP3 access data of any user on the email server can be used.
- Under Sender, enter the Display Name and the Email Address of the email sender. Many SMTP servers require an existing email address to be entered. The display name can be chosen freely; ideally the name indicates that the email was sent by MailStore Server.
- Under *Recipient for Notifications*, enter the email address of the recipient for administrative notifications of MailStore Server.
- Once all settings have been specified, MailStore Server can be instructed to send a test email to the email address entered for notifications; simply click on *Apply and Test*. If an error message appears or the recipient specified does not receive the email, the following hints for troubleshooting may be helpful.

Troubleshooting

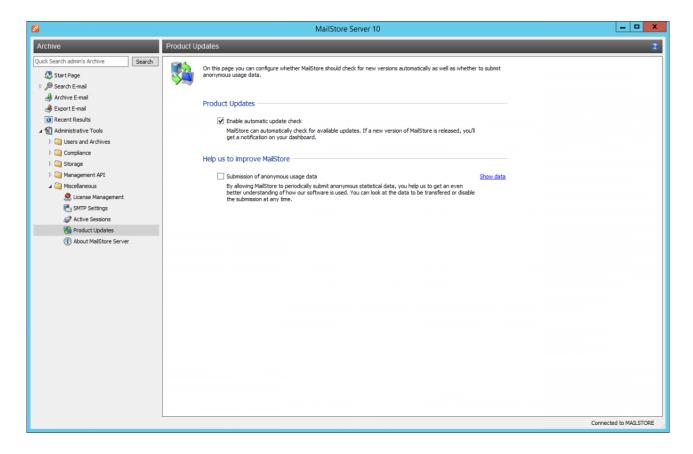
- If no error occurs upon sending but the email does not arrive, please check the spam or junk mail folder of the mailbox. Perhaps the email was filtered out.
- If an error message appears because of an invalid certificate ("Server's certificate was rejected by the verifier because of an unknown certificate authority."), check *Ignore SSL Warnings* and try again.
- If an error message appears indicating that "One or more recipients rejected", the SMTP server probably requires authentication. Enter the appropriate access data as described above.
- If an error message appears because of invalid access data (*"Incorrect authentication data"* or *"Authentication failed"*), verify the data entered. In most cases, the access data match those of the corresponding POP3 server.
- If further error messages appear or other problems arise, please check your entries for possible mistakes.

5.20 Active Sessions

Under *Administrative Tools > Active Sessions*, administrator can see which users are currently logged into MailStore Server. This may be important in preparation of performing maintenance tasks such as a backup, in order to identify which active users are affected by such an action.

5.21 Product Updates

On this page you can configure whether MailStore should check for new versions automatically as well as whether to submit anonymous usage data.



Enable automatic update check

If this option is enabled, MailStore Server regularly checks for new product versions. If a new version is available, this will be displayed on the dashboard in the MailStore Client. Additionally, if a *Recipient for Notifications* is defined in the SMTP Settings, a notification will be sent to this email address.

Submission of anonymous usage data

If this option is enabled, MailStore Server regularly sends data on how the program is being used to MailStore. This data allows us to better understand different usage scenarios of MailStore Server and focus our development capacities accordingly. The submitted data is collected and evaluated exclusively for this purpose.

You can display the data to be submitted by clicking on the *Show data* link. No personal data such as user names, passwords or email content will be submitted. The submitted data is completely anonymized and cannot be correlated to a specific customer installation. This option is disabled by default (opt-in).

5.22 MailStore Server Management Shell

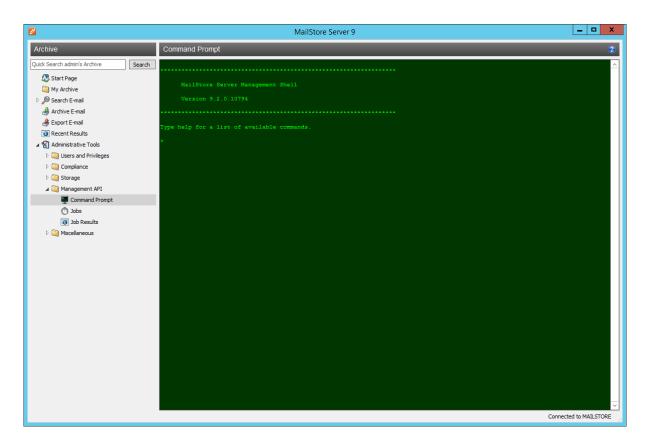
Many instructions available in the graphical user interface of MailStore Client can also be executed using MailStore's management shell, a command line client which is automatically included when installing MailStore Server and MailStore Client.

The management shell is useful when no graphical user interface is available (e.g. if using telnet or ssh) or for the integration of scripts (e.g. batch files) that are executed either manually or automatically.

Beside the client-side commands, the Management Shell also offers access to server-side commands of the MailStore Server Administration API. Output of server-side commands is in JSON format.

Starting the Management Shell in MailStore Client

The management shell can be started directly from MailStore: Log on to MailStore Client as administrator and click on Administrative Tools > Management API > Command Prompt.



The font size can be adjusted by holding the Ctrl key and using the mouse wheel or pressing + and -. Holding down the Ctrl key and pressing 0 resets the font size.

Using MailStoreCmd.exe in Non-Interactive Mode

In non-interactive mode, the management shell logs on with the access data passed, executes the command passed, and automatically terminates upon execution. If the login and the execution of the command were successful, the exit code (ERRORLEVEL) of the process is set to 0 (zero), otherwise it is set to any value other than 0. *MailStoreCmd.exe* can be found in the installation directory of MailStore Server. *MailStoreCmdSilent.exe* does the same, but does not open a console window.

Login credentials for your installation can be found in the scheduled task of an archiving profile of the type *E-Mail Programs* or *E-Mail Files*.

There are multiple ways to pass credentials to *MailStoreCmd.exe*.

To read credentials from the Windows Credentials Manager, they have to be stored there first. The MailStore Client does this automatically when creating a scheduled task in the Windows Task Planer. This methods prevents reading passwords easily by unauthorized persons.

MailStoreCmd.exe --h=<server> --cred=<user>@<server/ip address> --pkv3=<thumbprint> -c <command> [--param1=<value> --param2=<value> ...]

The credentials can also be passed as plain text.

MailStoreCmd.exe --h=<server> --u=<user> --p=<password> --pkv3=<thumbprint> -c <command> [--param1=<value> --param2=<value> ...]

The below command line parameters are required followed by additional API command parameters if necessary.

Parameter	Description
h	The machine name of the MailStore server to which code>MailStoreCmd.exe is to connect.
pkv3	The (optional) Public Key Fingerprint, which guarantees the identity of MailStore Server.
u	User name
p	Password
cred	Alternative to u and p , the password is read from the Windows Credential Manager. The parameter must be entered in the from <user>@<server address="" ip="">.</server></user>
nologo	Optional. Prevents the logo from being displayed.
0	Optional. Redirects the output to a given file. When this parameter is given, no output is sent to the console.
-c	The actual command follows (non-interactive mode).

Command Overview

Find a list of all client side commands below. An overview of all available server side commands can be found under Function Reference.

clear

Clears the texts currently displayed improving visibility.

debug-conn

Activates debug protocol for IMAP and HTTP connections during archiving for the running MailStore Client process.

debuglog-browse

Opens the file explorer and shows MailStore's Debug Log directory.

debuglog-enable, debuglog-disable

Activates or deactivates the global debug protocol (within computer scope).

exejcfg [--d]

Enables envelope journaling on Exchange 2003 servers. When the parameter --d is given, envelope journaling will be disabled. This command must be executed from a domain joined computer.

export-execute [--name=<profilename>] [--id=<profileid>] [--verbose] [--[property]="value"]

Executes an export profile. Following parameters are supported:

name id	name or ID of the export profile to execute
verbose	activates a detailed status display on the console
[property]	Overwrites the given property of a profile. The internal properties can be displayed, by selecting an export profile and press CTRL + SHIFT + P. The name of the property has to be in brackets. Multiple properties can be modified by repeating the parameter.

export-list

Displays a list of all existing export profiles (ID and profile name).

help

Displays a list of all available commands and their parameters.

import-execute [--name=<profilename>] [--id=<profileid>] [--verbose] [--user=<username>] [--[property]="value"]

Executes the archiving profile. Following parameters are supported:

name id	name or ID of the import profile to execute
verbose	activates a detailed status display on the console
user	user archive to store archived emails
[property]	Overwrites the given property of a profile. The internal properties can be displayed, by selecting an archiving profile and press CTRL + SHIFT + P. The name of the property has to be in brackets. Multiple properties can be modified by repeating the parameter.

import-list [--user=<username>]

Displays a list of all existing archiving profiles (ID and profile name).

livelog-client-disable, livelog-client-enable, livelog-server-disable, livelog-server-enable

Activates or deactivates the live debug protocol of MailStore Server or MailStore Client. The live protocol can be viewed with Sysinternal's DebugView. DebugView must be started with elevated privileges and it must be configured to capture *Global Win 32* events.

store-setprop --name=<name> [--value=<value>]

Changes the value of a global property

--name

Name of the global property

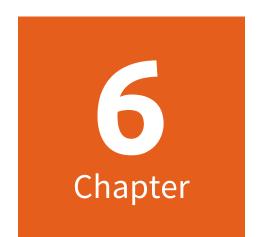
--value

Value of the global property

Following global properties are supported:

public.arcclient.skipMimeContentConversionFailed8true = ExchangefalseMimeContentConversionFailed errors are ignored and not handled as an archiving error. false = Exchange MimeContentConversionFailed errors are handled as archiving errors.falsepublic.arcclient.skipVirusDetected8.1true = Exchange ErrorVirusDetected errors are ignored and not handled as an archiving error. false = Exchange ErrorVirusDetected errors are handled as archiving errors.falsepublic.arcclient.skipEwsErrorItemNotFound10true = Exchange ErrorItemNotFound errors are ignored and not handled as an archiving error. false = Exchange ErrorItemNotFound errors are ignored and not handled as an archiving error. false = Exchange ErrorItemNotFound errors are ignored and not handled as an archiving error. false = Exchange ErrorItemNotFound errors are handled as archiving error. false = Exchange ErrorItemNotFound errors are handled as archiving error.falsepublic.backup.hideNotDetectedWarningMessage11true = Backup warning messages are not shown on dashboard. false = Backup warning messages are shown on dashboard.false	Name	Version	Values	Default
are ignored and not handled as an archiving error. false = Exchange ErrorVirusDetected errors are handled as archiving errors.public.arcclient.skipEwsErrorItemNotFound10true = Exchange ErrorItemNotFound errors are ignored and not handled as an archiving error. false = Exchange ErrorItemNotFound errors are handled as archiving errors.public.backup.hideNotDetectedWarningMessage11true = Backup warning messages are not shown on dashboard. false = Backup warning messages are shown on dashboard.	public.arcclient.skipMimeContentConversionFailed	8	MimeContentConversionFailed errors are ignored and not handled as an archiving error. false = Exchange MimeContentConversionFailed errors are	false
public.backup.hideNotDetectedWarningMessage 11 true = Backup warning messages are not false shown on dashboard.	public.arcclient.skipVirusDetected	8.1	are ignored and not handled as an archiving error. <i>false</i> = Exchange <i>ErrorVirusDetected</i> errors	false
shown on dashboard. <i>false</i> = Backup warning messages are shown on dashboard.	public.arcclient.skipEwsErrorItemNotFound	10	are ignored and not handled as an archiving error. <i>false</i> = Exchange <i>ErrorItemNotFound</i> errors	false
	public.backup.hideNotDetectedWarningMessage	11	shown on dashboard. false = Backup warning messages are	false
USET-11ST	user-list			

Display list of users.



Service Configuration

6.1 MailStore Server Service Configuration

With the MailStore Server Service Configuration you can configure low level features of a MailStore Server installation as well as control the MailStore Server service. The current status of the MailStore Server service is shown at the bottom of the window.

General

On this page you can select the storage location of the master database, configure where audit events should be stored and enable or disable individual features for accessing MailStore Server.

2	MailStore Server Service Configuration	_ 🗆 X
MailStore Server Service Configuration	General Master Database	
Base Configuration General IP Addresses and Ports	Specify here which directory MailStore Server should use to store its settings, the user database e-mail messages. In order to create an empty master database, specify an empty directory.	and, by default, all
Security and Encryption Startup Script Event Viewer	Directory: C:\MailArchive Write audit events to: the File System (subdirectory Audit Log)	Browse
Debug Log	Features	
Miscellaneous About MailStore Server	MailStore Web Access / Outlook Add-in (HTTP) MailStore Web Access / Outlook Add-in (HTTPS) IMAP Server (unencrypted / STARTTLS) IMAP Server (SSL) MailStore Administration API (HTTPS) VSS Writer Exclude Indexes from VSS Backup	
	MailStore Server is running. Start Service Restart Service Stop Service	Help

Master Database

Select the storage location of an existing master database. If you chose an empty directory, a new master database will be created therein. If you want to move an existing archive to a new storage location, refer to the instructions in Moving the Archive.

You can also specify the destination for logging audit events here.

Features

In this section you can enable or disable individual features for accessing MailStore Server.

- *MailStore Web Access / Outlook Add-In (HTTP)* Enables archive access via HTTP through MailStore Web Access and the MailStore Outlook Add-in.
- MailStore Web Access / Outlook Add-In (HTTPS)
 Enables archive access via HTTPS through MailStore Web Access and the MailStore Outlook Add-in.
- *IMAP Server (unencrypted / STARTTLS)* Enables the STARTTLS-encrypted archive access through the integrated IMAP server (explicit TLS). Login

over unencrypted connections is not supported.

- *IMAP Server (SSL)* Enables SSL-encrypted archive access through the integrated IMAP server (implicit TLS).
- *MailStore Administration API (HTTPS)* Enables the MailStore Administration API.
- VSS Writer

Activates the MailStore Volume Shadow Service Writer for enabling live backups of the archive using an external backup software.

• Exclude Indexes from VSS Backup Location of index files will not be reported by the VSS Writer.

IP Addresses and Ports

In addition to enabling and disabling individual network based components, you can choose the IP address and the port to which a component is to be bound as well as the SSL certificate that should be used for encrypted connections.

8	MailStore Server Service Configuration
MailStore Server	IP Addresses and Ports
Service Configuration	MailStore Client
Base Configuration	Enabled (All IP Addresses) Port: 8460 Server Certificate: MailStoreServer
General	
IP Addresses and Ports	MailStore Web Access / Outlook Add-in (HTTP)
Security and Encryption	✓ Enabled (All IP Addresses) ∨ Port: 8461
Startup Script	Enable HTTPS redirect
Event Viewer	Redirect to custom server name:
Debug Log	
Miscellaneous	MailStore Web Access / Outlook Add-in (HTTPS)
About MailStore Server	Enabled (All IP Addresses) Port: 8462 Server Certificate: MailStoreServer
	IMAP Server (unencrypted / STARTTLS)
	Enabled (All IP Addresses) v Port: 143 Server Certificate: MailStoreServer
	IMAP Server (SSL)
	Enabled (All IP Addresses) v Port: 993 Server Certificate: MailStoreServer
	MailStore Administration API (HTTPS)
	Enabled (All IP Addresses) v Port: 8463 Server Certificate: MailStoreServer
	MailStore Server is running. Start Service Stop Service Help

Basic Options

IP Address

The IP address on which the component accepts connections. Generally, it is recommended to bind all MailStore Server components to all IP addresses (default).

Port

Indicates the TCP port on which the component accepts connections.

Hint: If no web server other than MailStore Web Access is installed (e.g. an IIS website, Microsoft Outlook Web Access or SharePoint), you can specify the HTTP- and HTTPS standard ports (80 and 443). This way, users can access MailStore Web access directly using the URLs http://server_name or https://server_name without port numbers.

Server Certificate

Shows the current SSL certificate for the respective component. Click on the name of the SSL certificate to view further details. Using the ellipsis button (...) next to the name you can:

- Select an SSL certificate from the certificate store of the MailStore Server computer.
- Create a new self-signed SSL certificate.
- Import an SSL certificate from a file directly into the certificate store of the MailStore Server computer. The file must be in PKCS #12 format and usually has the file extension *pfx* or *p12*.

Further information about certificates and SSL security can be found in the following articles:

- Using Your Own SSL Certificate
- Enhancing SSL Security

Specific Options

MailStore Client

You cannot disable this component because the MailStore Client is essential for managing MailStore Server. The default TCP port is 8460.

MailStore Web Access / Outlook Add-in (HTTP)

This component provides unencrypted archive access through MailStore Web Access and the MailStore Outlook Add-in. The default TCP port is 8461.

- Enable HTTPS redirect Enabling this option redirects unencrypted HTTP requests to the HTTPS port.
- *Redirect to custom server name* If MailStore Server should use a specific server name for the HTTPS redirect, it must be specified here.

MailStore Web Access / Outlook Add-in (HTTPS)

This component provides SSL-encrypted archive access through MailStore Web Access and the MailStore Outlook Add-in. The default TCP port is 8462.

IMAP Server (unverschlüsselt / STARTTLS)

This component provides STARTTLS-encrypted archive access through the integrated IMAP server. The default TCP port is 143. Login over unencrypted connections is not supported.

IMAP Server (SSL)

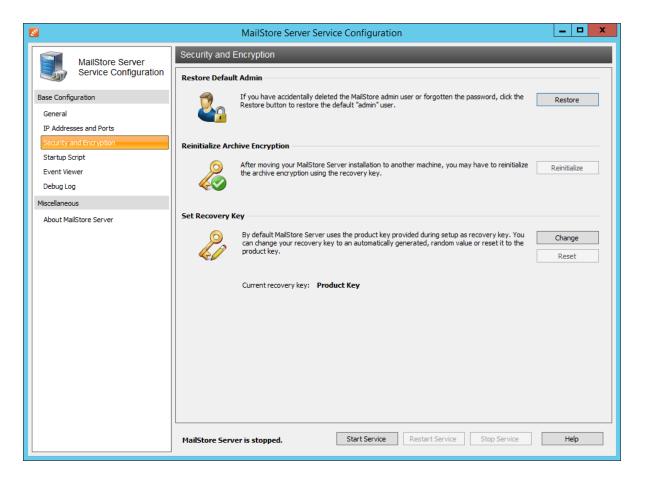
This component provides SSL-encrypted archive access through the integrated IMAP server. The default TCP port is 993.

MailStore Administration API (HTTPS)

This component provides SSL-encrypted access to the MailStore Administration API. The default TCP port is 8463.

Security and Encryption

This page provides several security features related to archive access and encryption. Please note that you cannot use these features while the MailStore Server service is running; it has to be stopped first.



Restore Default Admin

Through this feature you can restore the default admin user *admin* with the likewise password *admin*. If the recovery key of the archive whose default admin you want to restore is not the product key of the current MailStore Server installation, you will be asked to enter the associated recovery key. A restore of the default admin user is written into the audit log.

Reinitialize Archive Encryption

For security reasons the archive encryption is bound to the Windows installation of the MailStore Server machine. Therefore it might be necessary to reinitialize the archive encryption when moving the archive to another computer. If the recovery key of the archive whose encryption you want to reinitialize is not the product key of the current MailStore Server installation, you will be asked to enter the associated recovery key.

Set Recovery Key

The recovery key is used to authorize several security related tasks in MailStore Server, such as restoring the default admin, moving the archive to another machine or attaching archive stores from another MailStore installation. That way the number of people that may perform such tasks can be kept small and administrative archive and system duties can be kept separate.

By default, MailStore Server uses the product key provided during setup as recovery key and most security related tasks are carried out automatically without the need to enter the recovery key for authorization.

To improve security you can change your recovery key to an automatically generated, random value. In that case, every security related tasks must be authorized by entering the recovery key. For easier reference, each recovery key has a unique identifier that is displayed when the related recovery key must be provided. Only the most recent recovery key can be used for authorization.

Changing the Recovery Key

Click on *Change* to change the recovery key to an automatically generated, random value.

- You will be asked to save the recovery key to a file and/or print it. You have to choose at least one option to continue.
- After successfully changing the recovery key only the new key can be used henceforth.

Important notice: Always store the recovery key in a secure location. Without the recovery key carrying out security related tasks is no longer possible.

8	Recovery Key
Þ	It is recommended that you print the recovery key and also save it to a secure, archive independent, location.
	Save the Recovery Key
	OK Cancel

Resetting the Recovery Key

The MailStore Server service can execute a script before startup. The script can be used to establish a connection to a network resource using special connection parameters as described in chapter Using Network Attached Storage (NAS).

Event Viewer

Events such as starting or stopping the MailStore Server service are displayed here. If there are any errors, click on the corresponding entry to view additional details below the list.

Debug Log

On this page you can enable, view or delete all debug logs created by MailStore Server.

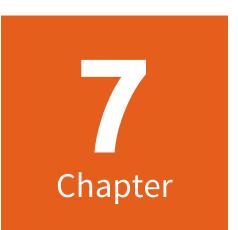
Enable Debug Log

Enable this feature if any problems or errors have occurred while running MailStore Server. After restarting the server service via *Restart Service* in the same window, a detailed log file is recorded. This file can be evaluated by the MailStore support team, for example.

Enable IMAP Connection Debug Log

Enable this feature if problems or errors have occurred while accessing MailStore Server using the integrated IMAP server. After restarting the server service via *Restart Service* in the same window, a detailed log file is recorded. This file can be evaluated by the MailStore support team, for example.

The table shows an overview of all debug log files. To view the contents of a debug log file in a text editor, double-click on the file name or click on *Open*. To delete a debug log file, highlight the file name and click on *Delete*.



MailStore Server Administration API

7.1 Administration API - Using the API

In this chapter you can find a description of the MailStore Server Administration API. With the Administration API administrative tasks, such as managing users or storage locations, can be remote controlled from a central location. Communication with the Administration API is done using web requests through HTTPS.

For security reasons, the MailStore Server Administration API is deactivated by default and has to be activated using the MailStore Server Service Configuration. When you are connecting to the API and using a hostname other than *localhost* or *127.0.0.1* you have to change the password of the admin user before.

Executing Regular API Functions

To execute regular Management API functions, send a HTTP POST request to the following URL:

https://<mailstore-server>:8463/api/invoke/<function>

With every request to the API, the username and password of a MailStore Administrator must be submitted following the HTTP Basic Authentication specification as described in RFC 2617. When a function needs additional data, this data must be send urlencoded. The HTTP header Content-Type: application/x-www-form-urlencoded should be set.

Example

HTTP Request

```
POST /api/invoke/GetServerInfo HTTP/1.1
Authorization: Basic YWRtaW46UGFzc3cwcmQ=
User-Agent: curl/7.35.0
Host: mailstore.example.com:8463
Accept: */*
Content-Length: 0
```

HTTP Response

```
HTTP/1.1 200 OK
Cache-Control:
no-cache, private, no-store, must-revalidate, max-stale=0, post-check=0, pre-check=0
Pragma: no-cache
Content-Length: 251
Content-Type: application/json
Expires: Wed, 25 Jun 2014 14:13:43 GMT
Server: Microsoft-HTTPAPI/2.0
Date: Thu, 26 Jun 2014 14:13:43 GMT
  "error": null,
  "token": null,
  "statusVersion": 2,
  "statusCode": "succeeded",
  "percentProgress": null,
  "statusText": null,
  "result": {
    "version": "9.0.0.9702",
    "machineName": "MAILSTORE"
  "logOutput": null
}
```

To get a list of all available functions, send a POST request to https://<mailstore-server:8463/api/get-metadata.

Long Running Processes

Some API functions start a long running process that may take several minutes or even hours to complete. To keep track of the progress a unique token is returned upon initial request, which can be used to periodically poll for status updates.

The overall process is as follows:

- Send HTTP POST to https://<mailstore-server>:8463/api/invoke/VerifyStore in order to execute the function.
- 2. Check the server's response for the keys token, statusCode and statusVersion.
- 3. To retrieve status updates, send periodic requests to

https://<mailstore-server>:8463/api/get-status with the following parameters:

Name	Description
token	The received unique token for the process.
lastKnownStatusVersion	Value of statusVersion from last response.
millisecondsTimeout	Time in milliseconds until the the server stops waiting for a new status update to send. If a new status update is available it will be sent to the client immediately, otherwise the last status is repeated.

4. The process finished when the statusCode is not running.

Example

Initial HTTP Request

```
POST /api/invoke/VerifyStore HTTP/1.1
Authorization: Basic YWRtaW46UGFzc3cwcmQ=
User-Agent: curl/7.35.0
Host: mailstore.example.com:8463
Accept: */*
Content-Length: 5
Content-Type: application/x-www-form-urlencoded
```

id=11

Initial HTTP Response

```
HTTP/1.1 200 OK
Cache-Control:
no-cache, private, no-store, must-revalidate, max-stale=0, post-check=0, pre-check=0
Pragma: no-cache
Content-Length: 290
Content-Type: application/json
Expires: Wed, 25 Jun 2014 14:15:41 GMT
Server: Microsoft-HTTPAPI/2.0
Date: Thu, 26 Jun 2014 14:15:41 GMT
{
  "error": null,
  "token": "b3af0ebae4dd755d1a54b9756817baee",
  "statusVersion": 3,
  "statusCode": "running",
  "percentProgress": 0,
  "statusText": null,
  "result": null,
  "logOutput": "Verifying file group #11...\r\nCreating a list of
messages to be verified...\r\n"
}
```

Periodic HTTP Request of Progress

```
POST /api/get-status HTTP/1.1
Authorization: Basic YWRtaW46UGFzc3cwcmQ=
User-Agent: curl/7.35.0
Host: spe.example.com:8474
Accept: */*
Content-Length: 90
Content-Type: application/x-www-form-urlencoded
```

token=b3af0ebae4dd755d1a54b9756817baee&lastKnownStatusVersion=3&millisecondsTimeout=5000

HTTP Response to Periodic Progress Requests

```
HTTP/1.1 200 OK
Cache-Control:
no-cache, private, no-store, must-revalidate, max-stale=0, post-check=0, pre-check=0
Pragma: no-cache
Content-Length: 242
Content-Type: application/json
Expires: Wed, 25 Jun 2014 14:08:15 GMT
Server: Microsoft-HTTPAPI/2.0
Date: Thu, 26 Jun 2014 14:08:15 GMT
{
  "error": null,
  "token": "b3af0ebae4dd755d1a54b9756817baee",
  "statusVersion": 9,
  "statusCode": "running",
  "percentProgress": 0,
  "statusText": null,
  "result": null,
"logOutput": " 400 messages verified...\r\n"
}
```

Final HTTP Response

```
HTTP/1.1 200 OK
Cache-Control:
no-cache,private,no-store,must-revalidate,max-stale=0,post-check=0,pre-check=0
Pragma: no-cache
Content-Length: 242
Content-Type: application/json
Expires: Wed, 25 Jun 2014 15:08:15 GMT
Server: Microsoft-HTTPAPI/2.0
Date: Thu, 26 Jun 2014 15:08:15 GMT
{
  "error": null,
  "token": null,
  "statusVersion": 269,
  "statusCode": "succeeded",
  "percentProgress": null,
  "statusText": null,
  "result": null,
  "logOutput": null
}
```

Error Handling

Additionally to handling protocol specific issues such as HTTP or TCP errors, developers receive detailed information from the API itself in case the request did not succeed.

In case the request was successfully be processed, the response will contain:

"error": null

Otherwise in the event of a failure the error key will have the following structure

```
"error": {
    "message": string,
    "details": string
}
```

allowing developers to display a meaningful error message and further technical details.

7.2 Administration API - Function Reference

AttachStore

Attach existing archive store.

Arguments

Name	Туре	Description
name	string	Meaningful name of archive store.
type	string	Type of archive store.
databaseName	string (optional)	Name of database on Microsoft SQL Server or PostgreSQL server.
databasePath	string (optional)	Path to directory in which database folder information and email meta data are stored.
contentPath	string (optional)	Path to directory in which email headers and contents are stored.
indexPath	string (optional)	Path to directory in which full text search indexes are stored.
serverName	string (optional)	Name of Microsoft SQL Server or PostgreSQL server.
userName	string (optional)	User name for accessing Microsoft SQL Server or PostgreSQL server.
password	string (optional)	Password for accessing Microsoft SQL Server or PostgreSQL server.
requestedState	string (optional)	State of archive store after attaching.

Argument Values

type

Name	Description
FileSystemInternal	Advanced file system-based archive store.
SQLServer	Microsoft SQL Server-based archive store.
PostgreSQL	PostgreSQL server-based archive store.

requestedState

Name	Description
current	Same as Normal but new messages will be archived in the archive store that is set to Current.
normal	The content of archives store is available to users and can be modified if the user has the appropriate permission.
writeProtected	The content of write protected archive stores is available to users, but cannot be modified (e.g. delete or move messages, rename or move folders)
disabled	Disabled archive stores are not in use but the instance still knows about their existence. Therefore the content is not available to users.

CancelJobAsync

Cancel a running job asynchronously.

Arguments

Name	Туре	Description
id	number	The unique identifier of the job to be canceled.

ClearUserPrivilegesOnFolders

Removes all privileges of a user on all archive folders.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.

CompactMasterDatabase

Compact master database.

CompactStore

Compact archive store.

Arguments

Name	Туре	Description
id	number	Unique ID of archive store

CreateBackup

Create a backup of the entire archive.

Arguments

Name	Туре	Description
path	string	Path to directory into which the backup should be written.
excludeSearchIndexes	bool (optional)	Indicates whether the search index files should be excluded from the backup.

CreateJob

Create a new job to execute Management API commands.

Name	Туре	Description
name	string (optional)	A meaningful name for the job. Example: <i>Daily Backup</i> .
action	string (optional)	Management API command to execute.
owner	string (optional)	Username of the job owner; must be an administrator.
timeZoneId	string (optional)	The time zone the date should be converted to, e.g. <i>\$Local</i> , which represents the time zone of the operating system.
date	string (optional)	Datetime string (YYYY-MM-DDThh:mm:ss) for running the job once.
interval number (optional)		Interval for running job.
time string (optional)		Time for running job. Without additional parameter, this means daily execution.
dayOfWeekstring (optional)Day of week to run job. Parameter "time" also required.		Day of week to run job. Parameter "time" also required.
dayOfMonthstring (optional)Day of month to run job. Parameter "time" also required optionally be used to define further.		Day of month to run job. Parameter "time" also required. dayOfWeek can optionally be used to define further.

Argument Values

dayOfWeek

Name	Description
Sunday	Sunday
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday

dayOfMonth

Name		e	Description
1	to	31	Numeric representation of day of month.
Lā	ast		Last day of month.

interval

Name	Description
5	Every 5 minutes.
10	Every 10 minutes.
15	Every 15 minutes.
20	Every 20 minutes.
30	Every 30 minutes.
60	Every hour.
120	Every 2 hours.
180	Every 3 hours.
240	Every 4 hours.
360	Every 6 hours.
720	Every 12 hours.

CreateProfile

Create a new archiving or exporting profile.

Name	Туре	Description
properties	json	Profile properties.
raw	bool	Currently only 'true' is supported.

Argument Values

properties

To receive available profile properties create a profile of the desired type via MailStore Client and then use the GetProfiles method to receive supported values. The properties *id* and *version* must be omitted, the password field must be filled properly.

CreateStore

Create and attach a new archive store.

Arguments

Name	Туре	Description
name	string	Meaningful name of archive store.
type	string (optional)	Type of archive store.
databaseName	string (optional)	Name of database on Microsoft SQL Server or PostgreSQL server.
databasePath	string (optional)	Path to directory in which database folder information and email meta data are stored.
contentPath	string (optional)	Path to directory in which email headers and contents are stored.
indexPath	string (optional)	Path to directory in which full text search indexes are stored.
serverName	string (optional)	Name of Microsoft SQL Server or PostgreSQL server.
userName	string (optional)	User name for accessing Microsoft SQL Server or PostgreSQL server.
password	string (optional)	Password for accessing Microsoft SQL Server or PostgreSQL server.
requestedState	string (optional)	State of archive store after attaching.

Argument Values

type

Name	Description
FileSystemInternal	Standard archive store.
SQLServer	Microsoft SQL Server-based archive store.
PostgreSQL	PostgreSQL server-based archive store.

requestedState

Name	Description
current	Same as Normal but new messages will be archived in the archive store that is set to Current.
normal	The content of archives store is available to users and can be modified if the user has the appropriate permission.
writeProtected	The content of write protected archive stores is available to users, but cannot be modified (e.g. delete or move messages, rename or move folders)
disabled	Disabled archive stores are not in use but the instance still knows about their existence. Therefore the content is not available to users.

CreateUser

Create new MailStore user.

Arguments

Name	Туре	Description
userName	string	User name of new MailStore user.
privileges	string	Comma separated list of privileges.
fullName	string (optional)	Full name of user.
distinguishedName	string (optional)	LDAP DN string.
authentication	string (optional)	Authentication setting for user: 'integrated or 'directoryServices'.
password	string (optional)	Password of new user.

Argument Values

privileges

Name	Description
none	The user is granted no global privileges. If specified, this value has to be the only value in the list.
admin	The user is granted administrator privileges. If specified, this value has to be the only value in the list.
login	The user can log on to MailStore Server.
changePassword	The user can change his own MailStore Server password. This only makes sense if the authentication is set to <i>integrated</i> .
archive	The user can run archiving profiles.
modifyArchiveProfiles	The user can create, modify and delete archiving profiles.
export	The user can run export profiles.
modifyExportProfiles	The user can create, modify and delete export profiles.
delete	The user can delete messages. Please note that a non-admin user can only delete messages in folders where he has been granted delete access. In addition, compliance settings may be in effect, keeping administrators and users from deleting messages even if they have been granted the privilege to do so.

DeleteEmptyFolders

Remove folders from folder tree that do not contain emails.

Arguments

Name	Туре	Description
folder	string (optional)	Entry point in folder tree.

DeleteJob

Deletes a job.

Arguments

Name	Туре	e Description	
id	string	The unique identifier of the job to be deleted.	

DeleteMessage

Delete a single message

Name	Туре	ype Description	
id	string	Unique ID of message. Format: <store_id>:<message_num></message_num></store_id>	
reason	string	The reason why that message has to be deleted.	

DeleteProfile

Delete an archiving or exporting profile.

Arguments

Name	Туре	Description
id	number	Unique ID of profile.

DeleteUser

Delete a MailStore user. Neither the user's archive nor the user's archive emails are deleted when deleting a user.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.

DetachStore

Detaches an archive store.

Arguments

NameTypeDescriptionidnumberUnique ID of archive store.

GetActiveSessions

Get list of current user sessions.

GetChildFolders

Get child folders. Depending on compliance settings this method may return only the first folder hierarchy level.

Name	Туре	Description	
folder	string (optional)	Parent folder which child folders should be returned. If omitted, all archives and folder will be returned.	
maxLevels	number (optional)	Depth of child folders.	

GetComplianceConfiguration

Get current compliance configuration settings.

GetDirectoryServicesConfiguration

Get current Directory Services configuration settings.

GetFolderStatistics

Get folder statistics.

GetJobResults

Retrieves list of finished job executions.

Arguments

Name	Туре	Description
fromIncluding	string	Beginning of time range to fetch.
toExcluding	string	End of time range to fetch.
timeZoneId	string	Time zone in which timestamp should be returned.
jobId	number (optional)	The job id for which to retrieve results.

Interactive Management Shell Example: *GetJobResults* --*fromIncluding*="2016-12-01T00:00:00" --*toExcluding*="2016-12-31T23:59:59" --*timeZoneId*="\$*Local*" --*jobId*=1

Use the API command *GetTimeZones* to retrieve a list of all available time zones.

GetJobs

Retrieve list of jobs

GetMessages

Get list of messages from a folder.

Name	Туре	Description
folder	string (optional)	Folder whose content to list.

GetProfiles

Get list of archiving and exporting profiles.

Arguments

Name	Туре	Description	
raw	bool	Currently only 'true' is supported.	

GetRetentionPolicies

Get the retention policies.

Example retention policies object:

```
[
{
    "name": "Keep All Mails for 10 Years",
    "order": 1,
    "enabled": true,
    "searchCriteria": null,
    "period": 10,
    "periodInterval": "year",
    "delete": false
}
]
```

GetServerInfo

Get MailStore Server version and machine name.

GetServiceConfiguration

Get MailStore Server service configuration. This includes the path to the Master Database, the location of the audit log, whether the different debug logs are enabled and the endpoint configuration.

GetSmtpSettings

Get current SMTP configuration.

GetStoreIndexes

Get list of full text indexes.

Name	Туре	Description
id	number (optional)	Unique ID of archive store.

GetStores

Get list of archive stores.

Arguments

Name	Туре	Description
includeSize	bool (optional)	Includes size of archive store. Default: <i>true</i> . May be slow when running on slow hardware.
	(optional)	

GetTimeZones

Get list of available time zones.

GetUserInfo

Get detailed information about user.

Arguments

	Name	Туре	Description
ι	ıserName	string	User name of MailStore user

GetUsers

Get list of users.

GetWorkerResults

Get results of profile executions.

Arguments

Name	Туре	Description
fromIncluding	string	Beginning of time range to fetch.
toExcluding	string	End of time range to fetch.
timeZoneID	string	Time zone in which timestamp should be returned.
profileID	number (optional)	Filter results by given profile ID.
userName	string (optional)	Filter results by given user name.

Interactive Management Shell Example: *GetWorkerResults* --*fromIncluding*="2016-01-01T00:00:00" --*toExcluding*="2016-12-31T23:59:59" --*timeZoneID*="\$Local" --*profileID*=1 --*userName*="admin"

MaintainFileSystemDatabases

Run database maintenance on all databases of file system based archive stores.

MergeStore

Merge two archive stores.

Arguments

Name	Туре	Description
id	number	Unique ID of destination archive store.
sourceId	number	Unique ID of source archive store.

MoveFolder

Move folder.

Arguments

Name	Туре	Description
fromFolder	string	Old folder name.
toFolder	string	New folder name.

ProcessRetentionPolicies

Processes the configured retention policies.

RebuildSelectedStoreIndexes

Rebuild all full-text indexes selected for rebuild.

RebuildStoreIndex

Rebuild search index for given archive folder.

Name	Туре	Description
id	number	Unique ID of archive store.
folder	string	Name of folder name.

RecoverStore

Recreates a broken Firebird database from recovery records. The archive store must have been upgraded to the latest version and the recovery records must not be corrupt. The archive store must be in the *Disabled* or *Error* state.

Arguments

Name Type		Description
id	number	Unique ID of archive store.
encryptionKey	string (optional)	Encryption key of the archive store.

RecreateRecoveryRecords

Recreates broken Recovery Records of an archive store. Use *VerifyStore* to verify the state of the Recovery Records. Cannot be used for external archive stores that store their content in the database.

Arguments

Name	Туре	Description
id	number	Unique ID of archive store.

RefreshAllStoreStatistics

Refresh statistics of all archive stores.

RenameJob

Rename job.

Arguments

Name	Туре	Description
id	number (optional)	The unique identifier of the job to be renamed.
name	string (optional)	The new job name.

RenameStore

Rename archive store

Name	Туре	Description
id	number	Unique ID of archive store.
name	string	New name of archive store.

RenameUser

Rename a MailStore user.

Arguments

Name	Туре	Description
oldUserName	string	Old user name.
newUserName	string	New user name.

RenewMasterKey

Renews the master key which is used to encrypt the encryption keys.

RetryOpenStores

Retry opening stores that failed previously.

RunJobAsync

Run an existing job.

Arguments

Name	Туре	Description
id	number	The identifier of the job to be run.

RunProfile

Run an existing archiving or exporting profile.

Arguments

Name	Туре	Description
id	number	Unique profile ID.

RunTemporaryProfile

Run a temporary/non-existent profile.

Arguments

Name	Туре	Description
properties	json	Profile properties.
raw	bool	Currently only 'true' is supported.

Argument Values

properties

To receive available profile properties create a profile of the desired type via MailStore Client and use the GetProfiles method to receive supported value.

SelectAllStoreIndexesForRebuild

Select all full-text indexes for rebuild.

SendStatusReport

Sends a status report to the given recipients.

Arguments

Name	Туре	Description	
timespan	string	imespan that is covered by the status report.	
timeZoneId	-	The time zone the date should be converted to, e.g. <i>\$Local</i> , which represents the time zone of the operating system.	
recipients	string	Comma separated list of recipients that will receive the status report.	

Argument Values

Timespan

Name	Description
today	The day when the status report is sent.
yesterday	The day before the status report is sent.
thisweek	The week when the status report is sent.
lastweek	The week before the status report is sent.
thismonth	The month when the status report is sent.
lastmonth	The month before the status report is sent.

SetComplianceConfiguration

Set compliance configuration settings.

Arguments

Name	Туре	Description
config	json	Compliance configuration.

Argument Values

config

Use GetComplianceConfiguration to receive supported value.

Example settings object:

```
"adminEmailPreviewEnabled": true,
  "legalHoldEnabled": false,
  "logSuccessfulUserActivities": [
    "AdminRestored",
    "ComplianceChangeSettings",
   "FileGroupDetach",
"FileGroupDetach",
    "FileGroupRename",
    "FileGroupSetProperties",
    "FileGroupSetRequestedState",
    "ProfileChangeUserName",
    "UserAdd",
    "UserDelete",
    "UserRename",
    "UserSetFolderAccess",
    "UserSetMappings",
    "UserUpdate"
 ]
}
```

SetDirectoryServicesConfiguration

Set directory services configuration settings.

Arguments

Name	Туре	Description
config	json	Directory services configuration.

Argument Values

config

Use GetDirectoryServicesConfiguration to receive supported value.

SetJobEnabled

Set enabled status of a job.

Arguments

Name	Туре	Description
id	number (optional)	The unique identifier of the job to be modified.
enabled	bool (optional)	Boolean value of enabled attribute.

SetJobSchedule

Modify the schedule of a job.

Arguments

Name	Туре	Description	
id	number	The unique identifier of the job to be modified.	
timeZoneId	string	The time zone the date should be converted to, e.g. <i>\$Local</i> , which represents the time zone of the operating system.	
date	string (optional)	Datetime string (YYYY-MM-DDThh:mm:ss) for running the job once.	
interval	number (optional)	Interval for running job.	
time	string (optional)	Time for running job. Without additional parameter, this means daily executio	
dayOfWeek	string (optional)	Day of week to run job. Parameter "time" also required.	
dayOfMonth	string (optional)	Day of month to run job. Parameter "time" also required. dayOfWeek can optionally be used to define further.	

Argument Values

dayOfWeek

Name	Description
Sunday	Sunday
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday

dayOfMonth

Name	Description
1 to 31	Numeric representation of day of month.
Last	Last day of month.

interval

Name	Description	
5	Every 5 minutes.	
10	Every 10 minutes.	
15	Every 15 minutes.	
20	Every 20 minutes.	
30	Every 30 minutes.	
60	Every hour.	
120	Every 2 hours.	
180	Every 3 hours.	
260	Every 4 hours.	
360	Every 6 hours.	
720	Every 12 hours.	

SetRetentionPolicies

Set retention policies.

Arguments

Name	Туре		
config	json	Retention policy configuration.	

To get example policies use the client to create retention policies manually. Then use the API command *GetRetentionPolicies* to retrieve the json values.

SetSmtpSettings

Set SMTP configuration.

Arguments

Name	Туре	Description
settings	json	SMTP configuration.

Argument Values

settings

Example settings object:

```
{
   "hostname": "mail.example.com",
   "port": 587,
   "protocol": "SMTP-TLS",
   "ignoreSslPolicyErrors": false,
   "authenticationRequired": true,
   "username": "sending.user@example.com",
   "password": "userpassword",
   "fromDisplayName": "Sending User",
   "fromEmailAddress": "sending.user@example.com",
   "recipientEmailAddress": "administrator@example.com"
}
```

SetStoreProperties

Set properties of archive store.

Name	Туре	Description
id	number	Set properties of archive store.
type	string (optional)	
databaseName	string (optional)	Name of database on Microsoft SQL Server or PostgreSQL server.
databasePath	string (optional)	Path to directory in which database folder information and email meta data are stored.
contentPath	string (optional)	Path to directory in which email headers and contents are stored.
indexPath	string (optional)	Path to directory in which full text search indexes are stored.
serverName	string (optional)	Name of Microsoft SQL Server or PostgreSQL server.
userName	string (optional)	User name for accessing Microsoft SQL Server or PostgreSQL server.
password	string (optional)	Password for accessing Microsoft SQL Server or PostgreSQL server.

Argument Values

type

Name	Description	
FileSystemInternal	Advanced file system-based archive store.	
SQLServer	Microsoft SQL Server-based archive store.	
PostgreSQL	PostgreSQL server-based archive store.	

SetStoreRequestedState

Set state of archive store.

Arguments

Name	Туре	Description
id	number	Unique ID of archive store.
requestedState	string (optional)	State of archive store after attaching.

Argument Values

requestedState

Name	Description
current	Same as Normal but new messages will be archived in the archive store that is set to Current.
The content of archives store is available to users and can be modified if the user h appropriate permission.	
writeProtected	The content of write protected archive stores is available to users, but cannot be modified (e.g. delete or move messages, rename or move folders)
disabled	Disabled archive stores are not in use but the instance still knows about their existence. Therefore the content is not available to users.

SetUserAuthentication

Set authentication settings of a MailStore user.

Name	Туре	Description	
userName	string	g User name of MailStore user.	
authentication	string	Authentication method. Either 'integrated' or 'directoryServices'.	

SetUserDistinguishedName

Set the LDAP distinguished name of a MailStore user.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.
distinguishedName	string (optional)	LDAP DN string.

SetUserEmailAddresses

Set email addresses of MailStore user.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.
emailAddresses	string (optional)	List of email addresses.

SetUserFullName

Set full name of MailStore user.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.
fullName	string (optional)	Full name of MailStore user.

SetUserPassword

Set password of MailStore user.

Name	Туре	Description
userName	string	User name of MailStore user.
password	string	Password of MailStore user.

SetUserPop3UserNames

Set POP3 user name of MailStore user.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.
pop3UserNames	string (optional)	Comma separated list of POP3 user names.

SetUserPrivileges

Set privileges of MailStore user.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.
privileges	string	Comma separated list of privileges.

Argument Values

privileges

Name	Description
none	The user is granted no global privileges. If specified, this value has to be the only value in the list.
admin	The user is granted administrator privileges. If specified, this value has to be the only value in the list.
login	The user can log on to MailStore Server.
changePassword	The user can change his own MailStore Server password. This only makes sense if the authentication is set to <i>integrated</i> .
archive	The user can run archiving profiles.
modifyArchiveProfiles	The user can create, modify and delete archiving profiles.
export	The user can run export profiles.
modifyExportProfiles	The user can create, modify and delete export profiles.
delete	The user can delete messages. Please note that a non-admin user can only delete messages in folders where he has been granted delete access. In addition, compliance settings may be in effect, keeping administrators and users from deleting messages even if they have been granted the privilege to do so.

SetUserPrivilegesOnFolder

Set privileges on folder for MailStore user.

Arguments

Name	Туре	Description
userName	string	User name of MailStore user.
folder	string	Folder name.
privileges	string	Comma separated list of folder privileges.

Argument Values

privileges

Name	Description
none	The user is denied access to the specified folder. If specified, this value has to be the only value in the list. This effectively removes all privileges on the specified folder.
read	The user is granted read access to the specified folder.
write	The user is granted write access to the specified folder. Messages can be moved within an archive.
delete	The user is granted delete access to the specified folder.

SyncUsersWithDirectoryServices

Sync users of MailStore instance with directory services.

Arguments

Name	Туре	Description
dryRun	bool (optional)	Simulate sync only.

TestSmtpSettings

Test current SMTP configuration.

UnlockStore

Unlock a foreign archive store. In case an archive store from a foreign MailStore installation is attached, this method can be used to unlock that archive store.

Name	Туре	Description
id	number	Unique ID of archive store to unlock.
passphrase	string	Product key or recovery key of the foreign MailStore installation.

UpgradeStore

Upgrade archive store from MailStore Server 5 or older to current format.

Arguments

Name	Туре	Description
id	number	Unique ID of archive store.

VerifyStore

Verify archive stores consistency.

Arguments

Name	Туре	Description
id	number	The unique identifier of the archive store to be verified.

VerifyStores

Verify consistency of all archive stores.