

MailStore Server 6

Documentation

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Contents

1	Installation	1
1.1	Installation	2
	Installing MailStore	2
	First Time Installation	2
2	Archiving Methods	3
2.1	Archiving Email	4
2.2	Email Archiving with MailStore Basics	5
	Working with Archiving Profiles	5
	Archiving Specific Folders	7
	Deleting Emails after Archiving	11
	Automating the Archiving Process	13
2.3	Archiving Email from Outlook, Thunderbird and others	17
	Supported Email Applications	17
	Procedure	17
	Settings for Archiving Profiles	18
	Settings Available for Outlook Only	18
	Settings Available for Mozilla Thunderbird Only	19
	Settings Available for Mozilla SeaMonkey Only	20
	Starting the Archiving Process	20
2.4	Archiving Outlook PST Files Directly	22
	Starting the Archiving Process	24
2.5	Archiving Emails from External Systems (File Import)	26
	Procedure for Archiving PST Files	26
	Procedure for Archiving EML and MSG Files	26
	Procedure for Archiving MBOX Files	29
	Archiving with Drag & Drop	31
	Starting the Archiving Process	31
2.6	Archiving Server Mailboxes	32
	Required Information	32
	IMAP or POP3?	32
	Setting Up the Archiving Process	32
	Starting the Archiving Process	35
2.7	Batch-archiving IMAP Mailboxes	37
	Preparation (Creating a CSV File)	37
	Setting Up the Archiving Process	37

Starting the Archiving Process	39
2.8 Archiving IMAP and POP3 Multidrop Mailboxes	41
Setting up the Archiving Process	41
Starting the Archiving Process	43
2.9 Archiving Incoming and Outgoing Emails Directly	45
Advantages	45
Disadvantages	45
How It Is Done	45
3 Accessing the Archive	47
3.1 Accessing the Archive	48
3.2 Accessing the Archive with the MailStore Client software	50
Installation	50
Starting and Login	50
Searching by Folder Structure	51
Quick Search	52
Extended Search	54
Email Preview	56
Reopening Emails in an Email Application	57
3.3 Accessing the Archive with the Microsoft Outlook integration	58
Requirements	58
Login to MailStore Server	59
Search by Archive Folder	60
Quick Search	60
Advanced Search	62
Email Display	64
Restoring Emails to the Application	64
Changing Regional Settings	64
3.4 Accessing the Archive via Integrated IMAP Server	65
Prerequisite for Using the MailStore-Integrated IMAP Server	65
Accessing the Integrated IMAP Server	65
3.5 Accessing the Archive with MailStore Web Access	66
Requirements for Using MailStore Web Access	66
Accessing MailStore Web Access	67
Search by Archive Folder	68
Quick Search	68
Advanced Search	69
Email Display	71

Printing the Displayed Email	71
Internet Headers	71
Changing Regional Settings	72
3.6 Accessing the Archive with iPhone and iPod touch	73
Setup	73
Using MailStore iPhone Client	75
4 Export Email	77
4.1 Exporting Email	78
Available Export Destinations	78
Starting an Export	79
Working with Exporting Profiles	79
Automating the Export Process	81
5 Administration	84
5.1 Users, Folders and Settings	85
The MailStore Folder Structure	85
User Management	85
Specifying Privileges	87
5.2 Active Directory Integration	91
Synchronizing User Accounts with Active Directory	91
Login with Windows Credentials	93
MailStore Client Single Sign-On	93
5.3 Generic LDAP Integration	94
Synchronizing User Accounts with a Generic LDAP Directory Service	94
Login with LDAP Access Data	96
5.4 MDAemon Integration	98
Synchronizing User Accounts with an MDAemon User Database	98
Login with MDAemon Access Data	99
5.5 Compliance General	101
5.6 Auditing	104
5.7 Storage Locations	105
Structure of the MailStore Database	105
Managing Storage Locations	106
5.8 Search Indexes	109
Administration of the Full-Text Search	109
5.9 Backup and Restore	111
Backup	111
Using the MailStore Integrated Backup Feature	111

Using External Backup Software	113
Restoring Backups	116
5.10 Archive Statistics	117
5.11 SMTP Settings	118
Specifying the Settings	118
Troubleshooting	119
5.12 MailStore Server Management Shell	120
Option 1: Starting the Management Shell in MailStore Client	120
Option 2: Starting the Management Shell with MailStoreCmd.exe	121
Using MailStoreCmd.exe in Non-Interactive Mode	121
Command Overview	122
6 Service Configuration	125
6.1 MailStore Server Service Configuration	126
In General	126
IP Addresses and Ports	127
Event Viewer	127
Debug Log	127

1

Chapter

Installation

1.1 Installation

Installing MailStore

Choosing a Computer for the Installation of MailStore Server

The MailStore server can be installed on any Windows PC. Neither server operating system nor database system is required. An overview of supported operating systems can be found in chapter System Requirements.

Installation on an existing server

MailStore Server can be installed on an already existing server PC without any restrictions. Although not required, a concurrent installation on a Microsoft Exchange server is possible without any restrictions as well. No changes are made to the Exchange server. Should the capacity of the current computer used for archiving reach its limits, the entire archive can be moved to another machine within minutes.

Tips for the test mode

To test MailStore Server, it can be installed on any workstation PC. Operation in a virtual machine (e.g. VMware) is possible without any restrictions as well.

Starting the Installation

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

Choosing a Directory

MailStore Server by default uses the following directory as storage location:

```
C:\MailArchive
```

This will be the directory in which the actual email archive will be stored.

You can change the storage location after the installation has finished by using the MailStore Server Service Configuration. Should you plan to store on a Network Attached Storage (NAS), the chapter Using Network Attached Storage (NAS) will provide more information on this. If you want to move your archive to a new location at a later date, the article Moving the Archive will provide more information on this.

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 archive emails the first time.

2

Chapter

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. All archiving tasks can be performed manually or automatically according to 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 Servers

Archiving Microsoft Exchange or Office 365 mailboxes and public folders

With MailStore, already existing Exchange or Office 365 mailboxes as well as public folders can be archived. 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 Office 365

Archiving Alt-N MDAemon mailboxes

MailStore offers a first class support for the popular MDAemon Messaging Server from the Research in Motion division 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 are available in chapter Archiving Emails from MDAemon.

Archiving Other Email Servers

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

General information are available in the chapters:

- Archiving Single Mailboxes
- Archiving IMAP/POP3 Multidrop Mailboxes
- Batch-archiving IMAP Mailboxes

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

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 any number of times. Additional information about this topic is available in the chapter Archiving Email from Outlook, Thunderbird and others.

Email Files

Archiving Outlook PST files directly

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 other files such as EML or MBOX

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).

2.2 Email Archiving with MailStore Basics

Working with Archiving Profiles

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

Such an archiving profile could contain the following information:

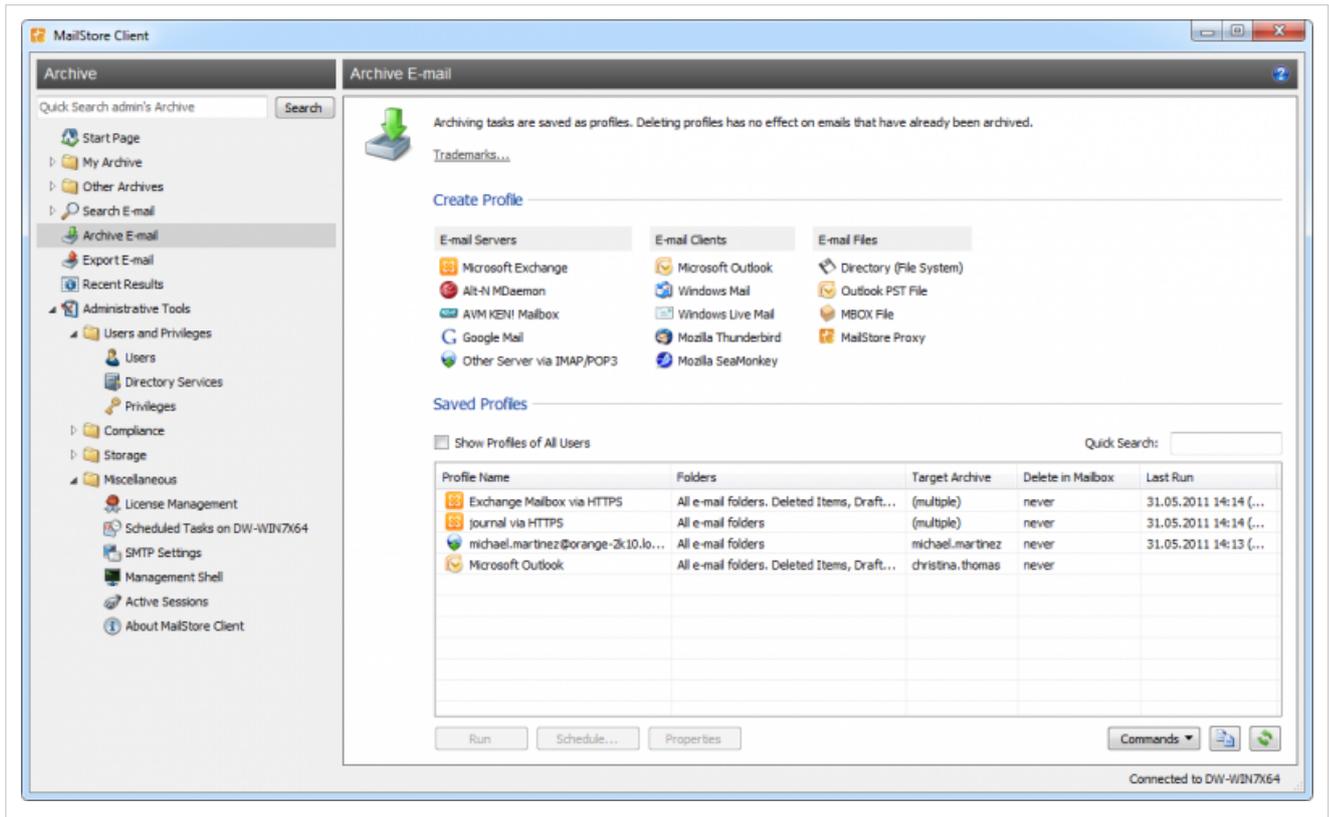
- WHAT: Mailbox p.berten@company.com
- FROM: Exchange server EXCHANGE01
- TO (Target archive in MailStore): peter.berten
- SCOPE: All folders except drafts
- DELETION RULE: Delete all archived emails older than 3 months from the Microsoft Exchange mailbox.

Creating an Archiving Profile

- Start MailStore Client and click on *Archive Email* to create and execute an archiving profile.
- 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 different settings can be specified for the archiving profile. These include the selection of folders (e.g. "Inbox") and deletion rules (by default, no emails are deleted).
- **Please note:** If you are logged on to MailStore Server as administrator, you will be prompted for the target archive (user archive), in which the emails are to be stored. If logged on as regular user, the corresponding user archive will be used automatically.
- 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.

Starting the Archiving Process

From the list under *Saved Profiles*, select the archiving profile to be executed and 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.

In addition to being executed manually, archiving profiles can also be run automatically according to a schedule. Simply right-click on an existing profile and select *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 only archives emails that are not yet stored in the target archive (the specified user archive). MailStore also detects if any emails were moved to a different folder within the source application (e.g. Microsoft Outlook) and repeats such moves in MailStore accordingly.

Editing Archiving Profiles

To edit an existing archiving profile, right-click on the profile and select *Properties*. Make any desired changes and click on *OK* to save the new settings.

Deleting Archiving Profiles

If no longer needed, archiving profiles can be deleted. This has no effect on the emails that have already been archived. They remain in the archive. Right-click on the profile to be deleted and select *Delete*. A confirmation prompt appears; click on *OK*.

Changing Owner of Archiving Profiles

As MailStore administrator (*admin*), you are able to change the ownership of an archiving profile. This gives you the ability to prepare archiving profiles for your users, that they can execute on their own afterwards. To change the owner of an existing archiving profile, right-click on the profile you are about to change and select *Change Owner...* Now select a user from the dialog and confirm the selection by clicking on *OK*.

Managing and Executing the Archiving Profiles of Other Users

As MailStore administrator (*admin*), the archiving profiles created by other users for themselves can be managed as well. Simply select the checkbox *Show Profiles of All Users* in the lower left corner of the screen. Now the profiles can be edited, executed or deleted as if they were your own.

Exception: Executing the archiving profiles for Microsoft Outlook and other email clients for other users

Generally, it is sensible to execute these profiles exclusively on the computer on which the corresponding application is installed. More precisely: If Mr. Brown has an archiving profile for Microsoft Outlook, it can be viewed and edited by the administrator through MailStore Client. However, executing this profile only makes sense if it is run using the MailStore Client that is installed on Mr. Brown's computer. This exception is only valid for Outlook, Outlook Express/Windows Live Mail, Thunderbird and Seamonkey.

Archiving Specific Folders

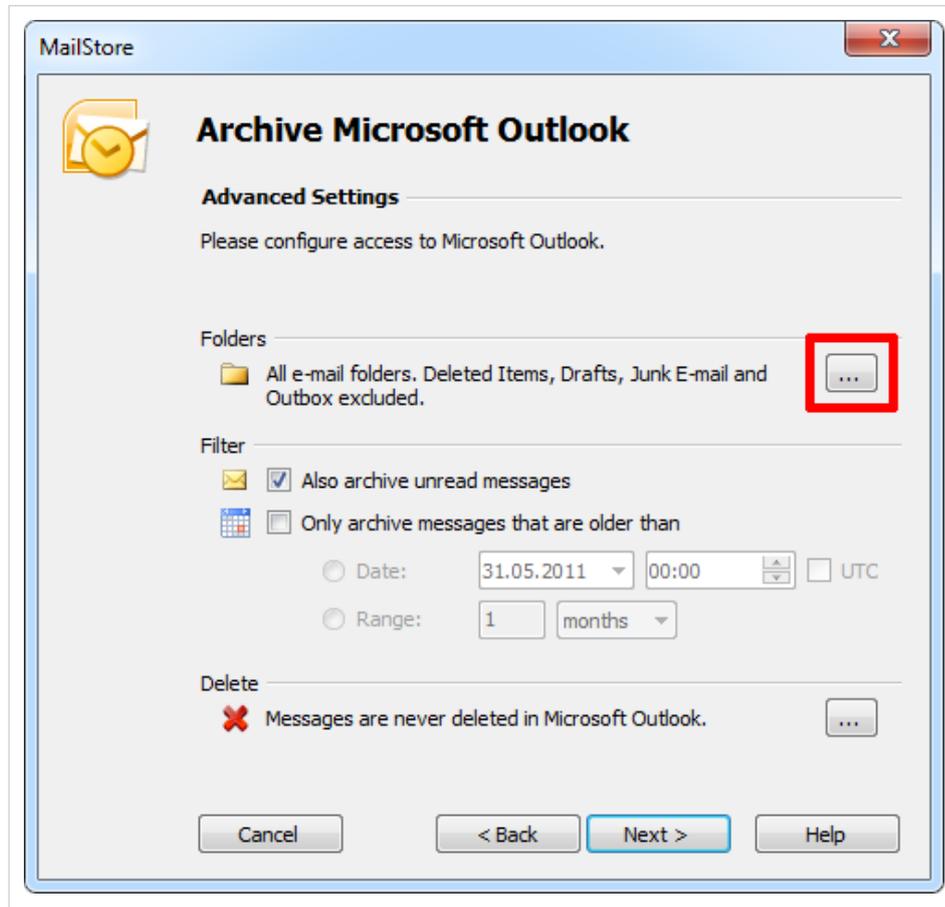
Using the default settings, MailStore archives the emails from all folders of the email application or email mailbox except the following (the list may vary depending on the system):

- **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 extracted by the spam filter
- **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 process, folders can be included or excluded as needed.

General Procedure

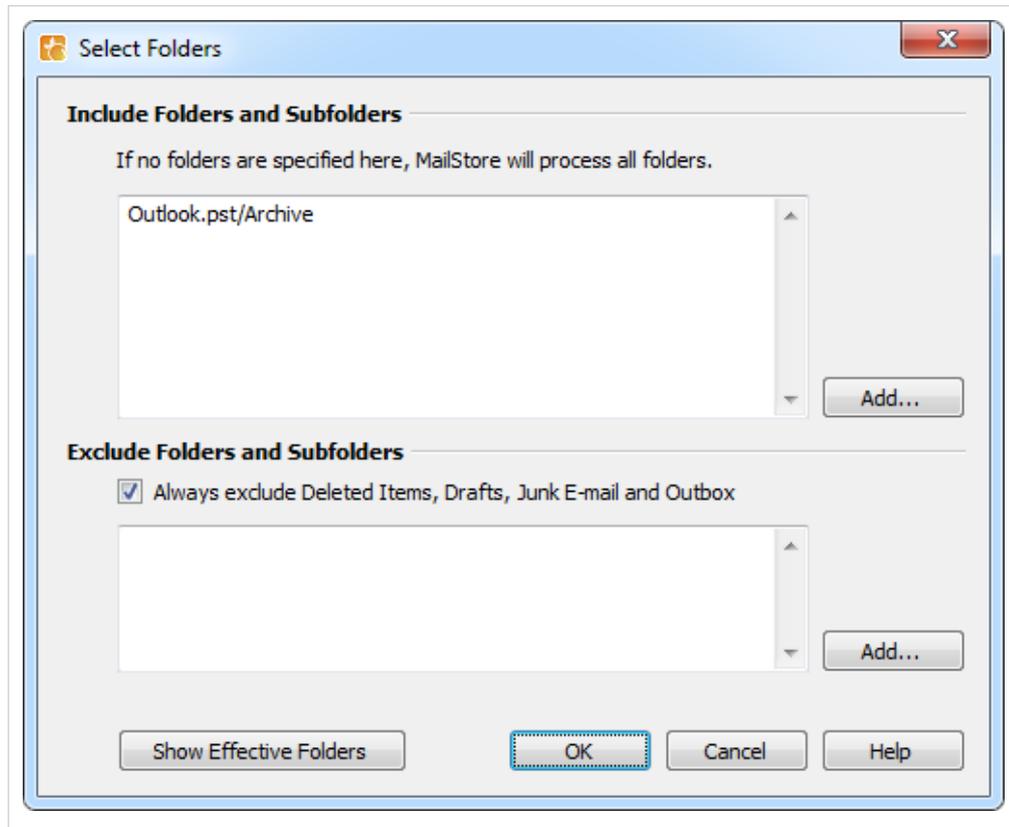
The folders to be archived can be selected directly upon creating a new archiving profile at the first step of the wizard. Alternatively, the selection can be adjusted for already existing profiles. Additional information about creating and editing archiving profiles is available in the chapter Working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



Selecting Folders for Archiving

Specific folders can be selected to be archived by MailStore. In this case, MailStore only regards the selected folders and ignores all others.

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



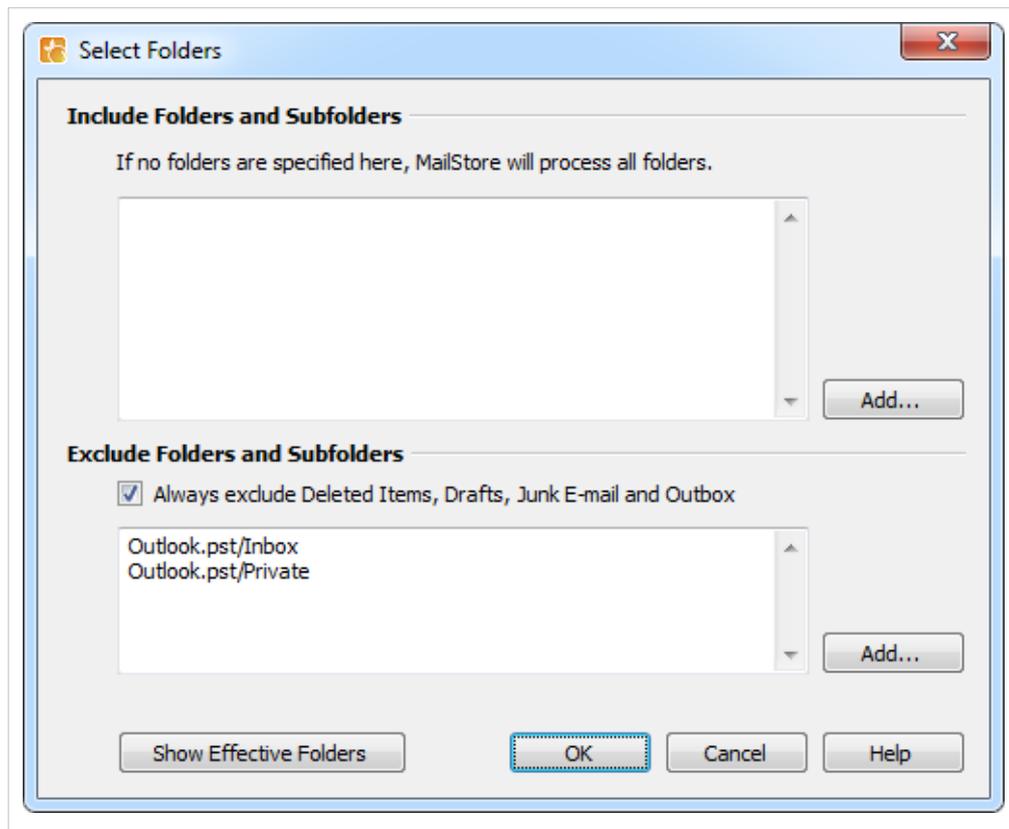
- Select a folder.
- Under Include Subfolders, specify if the subfolders of the selected folder are to be included in the archiving process.
- Click on *OK* to add the folder to the list.

Example: A folder *Archive* has been created in the email application, to which the user moves all emails that are to be archived. In this case, add the folder *Archive* to the list of folders to be included. This way, only this single folder will be archived.

Excluding Folders from the Archiving Process

MailStore can be configured to archive all folders (see above), but to always exclude certain folders from the process.

- In the folder selection under *Exclude Folders and Subfolders*, click on *Add*.



- Select a folder.
- Under *Include Subfolders*, specify if the subfolders of the selected folder are to 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 are NOT desired to 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* are NOT desired to be archived as it may contain personal information that is prohibited by law (in some country) 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>".

Viewing the Folders Selected for Archiving

In the folder selection, click on *Show Effective Folders* to verify the selected settings. Hereby, all folders that will in fact be archived are displayed.

Deleting Emails after Archiving

MailStore is often used to reduce and to keep the amount of emails stored in local email applications or server mailboxes at a minimum, speeding up server performance.

MailStore provides a delete feature that can be activated as needed and enables MailStore to delete emails from the source application autonomously, according to specified rules and time periods.

Please note: By default, no emails are deleted from the email application or mailbox.

Where Is the Delete Feature Supported?

The delete feature is not available to all archiving functions. After archiving, MailStore can delete emails automatically from the following applications, files and server mailboxes:

- Microsoft Outlook
- Microsoft Outlook - PST files
- Microsoft Exchange Server - mailboxes
- Microsoft Exchange Server - public folders
- AVM KEN! - mailboxes
- any IMAP mailboxes

When Will Emails Be Deleted?

Upon request, MailStore deletes emails from the source application during the archiving process (upon executing an archiving profile). By default, no emails will be deleted.

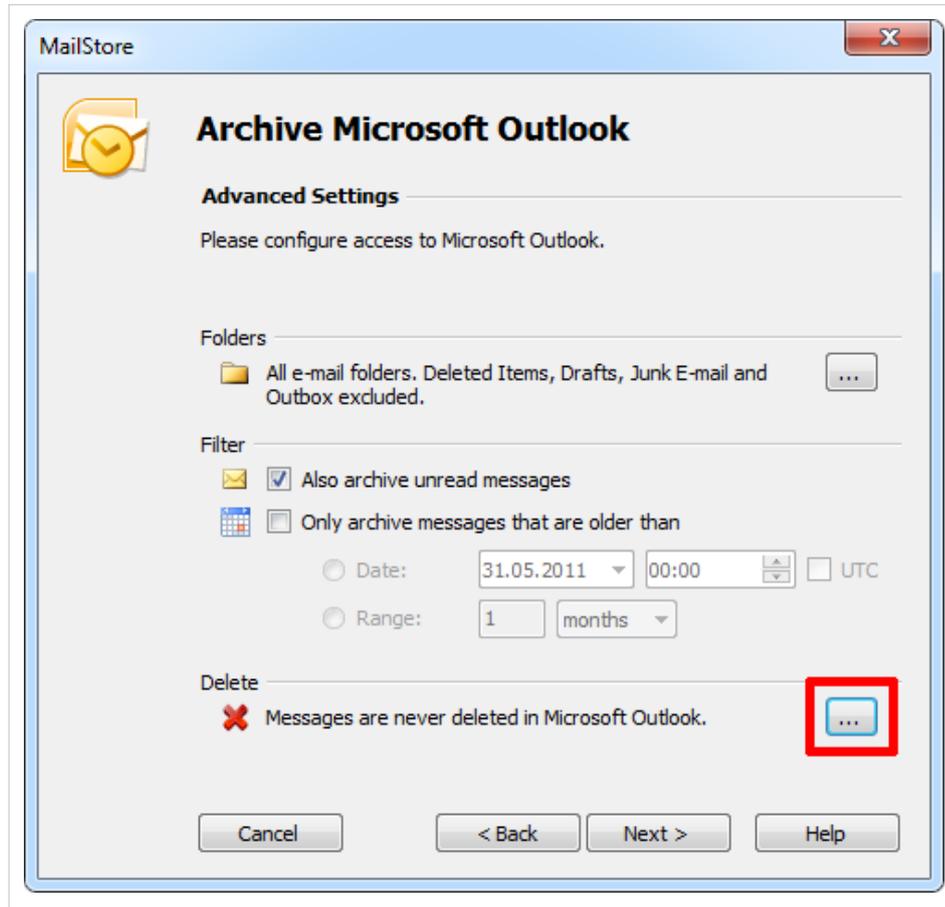
Please note: Emails will only be deleted during the archiving process, and only if the respective rules are defined in the corresponding archiving profile as described below. No other automatic processes exist to delete emails from their source applications.

If, during the archiving process, MailStore detects an email that has already been archived, MailStore determines how long the email has been stored in the archive. If a predetermined time period has elapsed (e.g. one year), the email is deleted. Alternatively, the age of the email can be determined according to the source application and used as a prerequisite for deletion instead.

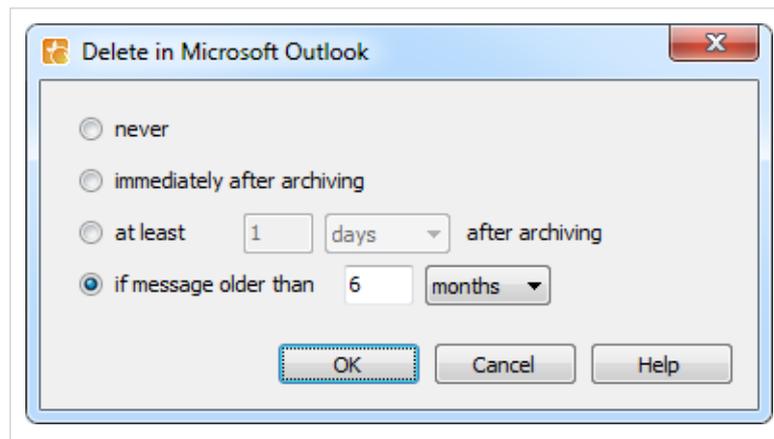
On principle, MailStore deletes an email from its source application only after safely verifying that it has in fact been archived.

How It Is Done

Delete conditions can be configured in step two of setting up a new archiving profile. Additionally this option can be configured for existing profiles as well. General information on working with archiving profiles are available in the chapter Working with Archiving Profiles. The following screenshot shows how to open the deletion settings for an Outlook archiving profile:



The available options are available:



- **never** - emails are never deleted from the source. This is the default setting.
- **immediately after archiving** - emails are deleted from the source as soon as they have been successfully archived.
- **at least [period] after archiving** - emails are deleted from the source if they have been in the archive for at least the given period of time.
- **if message older than [period]** - emails are deleted from the source if they are older than the given period of time.

Automating the Archiving Process

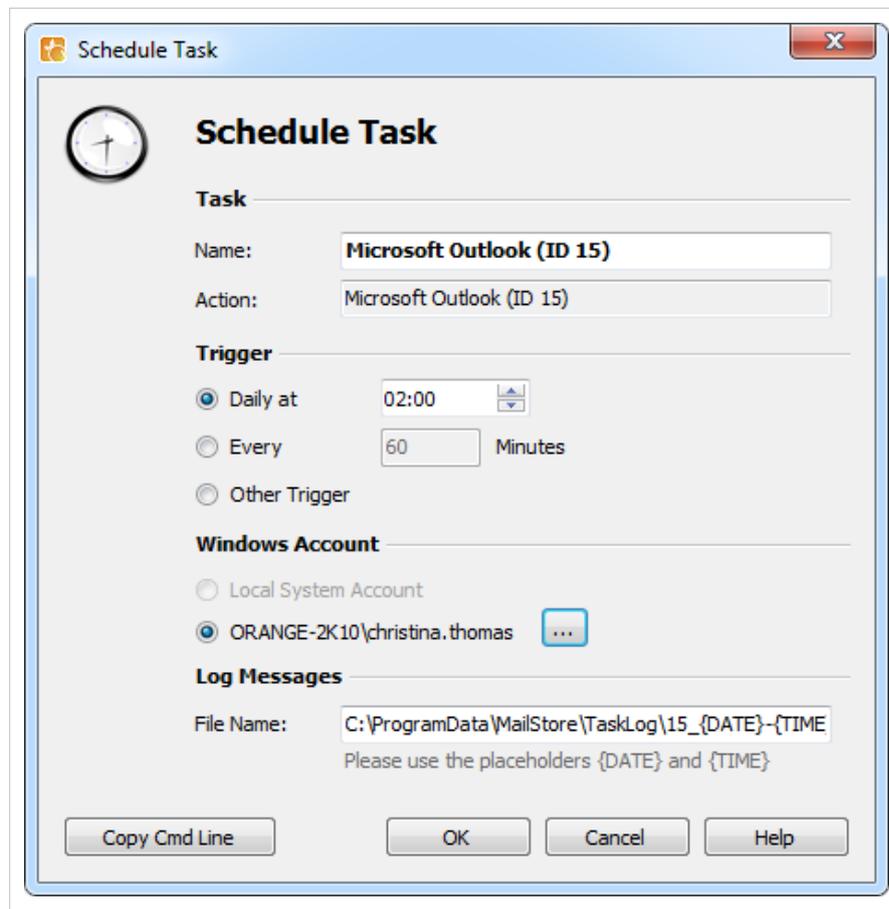
With MailStore, every archiving process (every archiving profile) can be executed automatically according to specified points in time.

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.

How To: For Emails Stored Locally on User Computers

To automate the archiving process for user emails that are stored on the corresponding user computer - as is the case with Microsoft Outlook (without Exchange server), for example - please proceed as follows:

- Start MailStore Client on the user computer.
- Log on to MailStore Server using the user's access data.
Please note: As MailStore administrator and using MailStore's user management, first verify that the user possesses the privilege to archive emails.
- In the user's MailStore Client click on *Archive Email*.
- Right-click on an existing profile and select *Schedule...* Please refer to the chapter Working with Archiving Profiles to learn how to create a new archiving profile.



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: A time for daily execution (the task is executed once a day) or a time interval (e.g. every 60 minutes) can be specified.

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 planner and is described in Windows Help. All options offered by your version of Windows can be used.

Windows Account: Specify here which user account is to be used when executing the scheduled task. The option Local System Account is used for the automated archiving of server mailboxes (see below) and has the advantage that no password is required to execute the task. If the emails are to be archived from the application of the current user (e.g. from Microsoft Outlook), the corresponding user account must be selected. In such cases, the option Local System Account is deactivated.

Log Messages - File Name: If a log file is to be created, the name for that file can be specified here. The placeholders {DATE} and {TIME} can be used in the file name which will be replaced by the actual date and time during the archiving process. The log file can also be created on a network drive, if desired.

Copy Cmd Line: Here, the command line of the scheduled task can be copied to the clipboard so it can be used in batch files, for example. Detailed information about this topic is available at the end of this chapter.

After all settings have been specified, the task can be created by clicking on OK. Confirm the safety prompt and enter the Windows password of the currently logged on user twice. Confirm again by clicking OK. A list of scheduled tasks is displayed in MailStore's Administrative Tools. All tasks created on the current computer up to now are listed here.

General Background Information

- Every archiving profile can be executed automatically according to a schedule.
- MailStore creates every scheduled task as a Windows task which can be edited and processed independently from MailStore using the Windows task manager.
- For each archiving profile multiple tasks can be created, each executing the profile at different times.
- 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.

How To: For Emails Stored in Server Mailboxes

To automate the archiving process for user emails that are stored in server mailboxes, e.g. when using Microsoft Exchange or an external IMAP mailbox, please proceed as follows:

- Start MailStore Client on the computer on which the scheduled archiving task is to be initiated. This can be any user computer or the MailStore server machine.
- Log on as MailStore administrator (*admin*).
- Click on *Archive Email*.
- Right-click on an existing archiving profile and click on *Scheduled...*
- Specify the settings for the planned task (see above section "How To: For Emails Stored on User Machines") and click on OK. Confirm the following security warning with OK again.
- A list of scheduled tasks is displayed in MailStore's Administrative Tools. All tasks created on the current computer up to now are listed here.

Managing Scheduled Tasks

Scheduled tasks created on the current computer are managed through *Administrative Tools > Miscellaneous > Scheduled Tasks on <computer>*.

As a rule, scheduled tasks are generated by MailStore as tasks in the Windows Task Scheduler of the local computer.

Scheduled Tasks on DW-WIN7X64

Name	Next Run Time	Last Run Time	Last Result
Microsoft Outlook (ID 15)	01.06.2011 02:00		
journal via HTTPS (ID 13)	01.06.2011 02:00	31.05.2011 15:31	Running
Exchange Mailbox via HTTPS (ID...)	01.06.2011 02:00		

Run Task Properties Delete Task Open Log Files Directory

The list shows all scheduled tasks for the archiving and export processes that were created on the current computer.

Run Task: The selected task is executed immediately regardless of its scheduled runtime.

Properties: The Windows Task Planner is opened for the selected task; all options offered by your current Windows version can be used.

Delete Task: The selected task is deleted. This does not affect the underlying archiving profile or any of the archived emails.

Open Log Files Directory: The directory containing the protocols for the selected task is opened.

Important notice: Information about removing old scheduled task log files automatically are available in the article *Scheduled Tasks Troubleshooting*.

Viewing the Command Line

If desired, the archiving process 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 Command 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:

```
REM *** Microsoft Outlook (ID 4) ***
"C:\Programme\deepinvent\MailStore Server\MailStoreCmd.exe" --h="localhost"
--pkv3="23:18:06:3f:24:7d:f3:83" --u="admin" --p="admin"
-c import-execute --id=4 --user="admin"
```

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).

--u="admin" - User name.

--p="admin" - Password.

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

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

2.3 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 XP, 2003, 2007, 2010
- Microsoft Outlook Express 6.0
- 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).

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

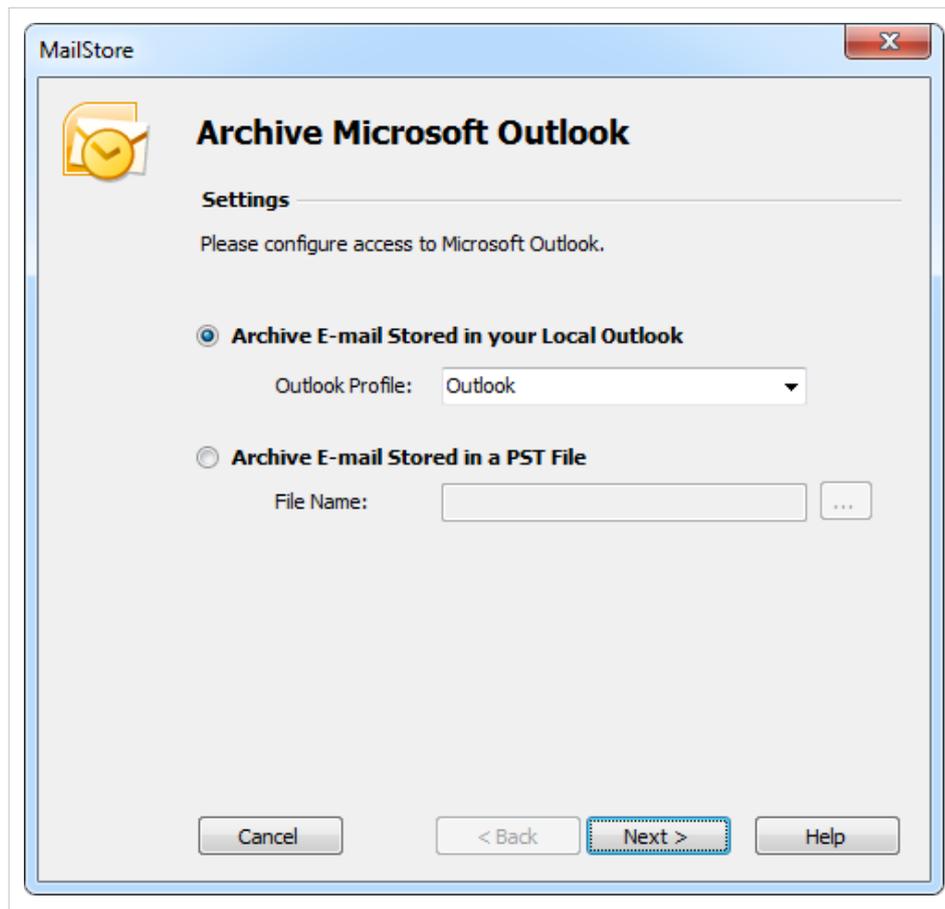
Upon creating or editing an archiving profile, different settings can be specified for the archiving task. Settings vary depending on the type of the email client selected (e.g. *Microsoft Outlook* or *Mozilla Thunderbird*).

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



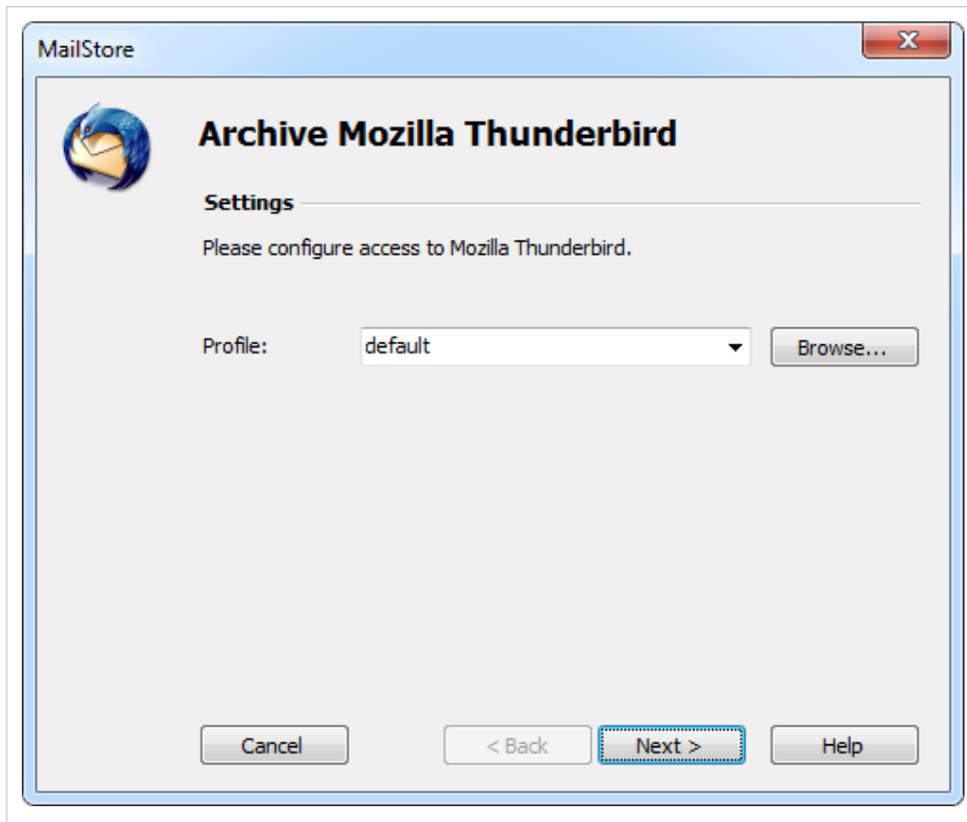
Archive Email Stored in your Local Outlook

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

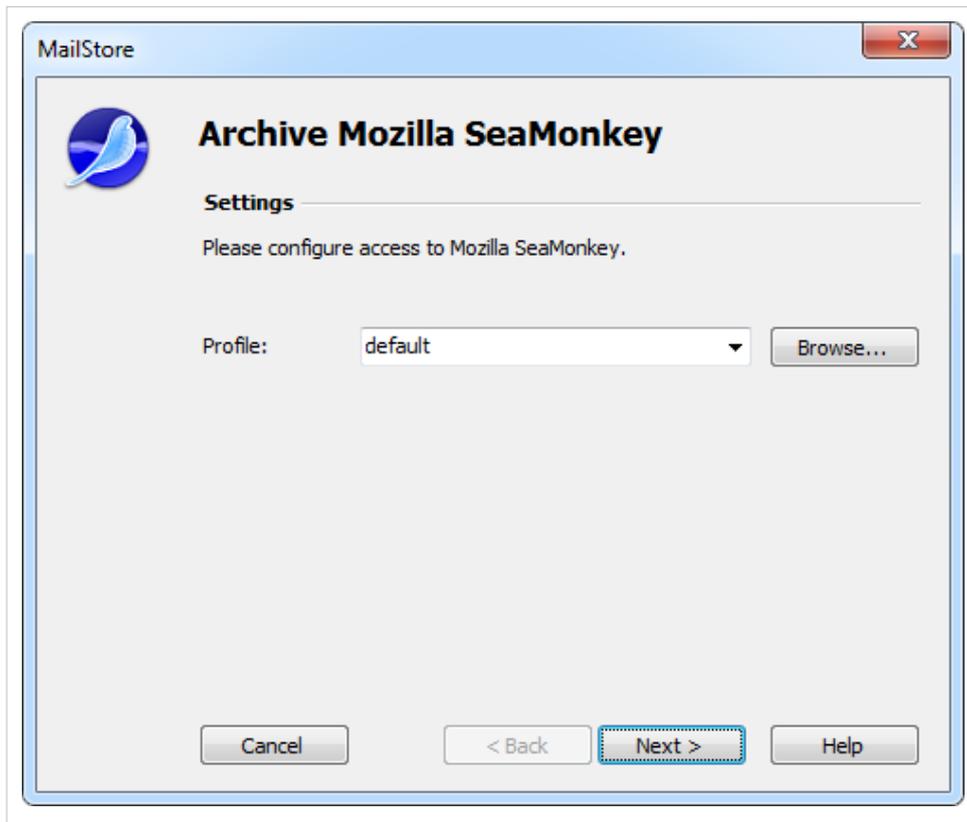
Select this option if MailStore is to access the PST file directly. This option is described in the chapter Archiving Outlook PST Files Directly.

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*.

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. In addition, MailStore detects if emails within the source application (e.g. Microsoft Outlook) were moved to a different folder and repeats such moves in MailStore accordingly.

Automating the archiving process

In addition to being executed manually, archiving tasks can also be executed automatically according to a schedule. Simply right-click on an existing profile and select *Schedule....* Additional information about this topic is available in the chapter Automating the Archiving Process.

Please note: As long as no deletion rules were specified upon creating the archiving profile, MailStore will never delete or otherwise modify emails in the source application (e.g. Microsoft Outlook).

2.4 Archiving Outlook PST Files Directly

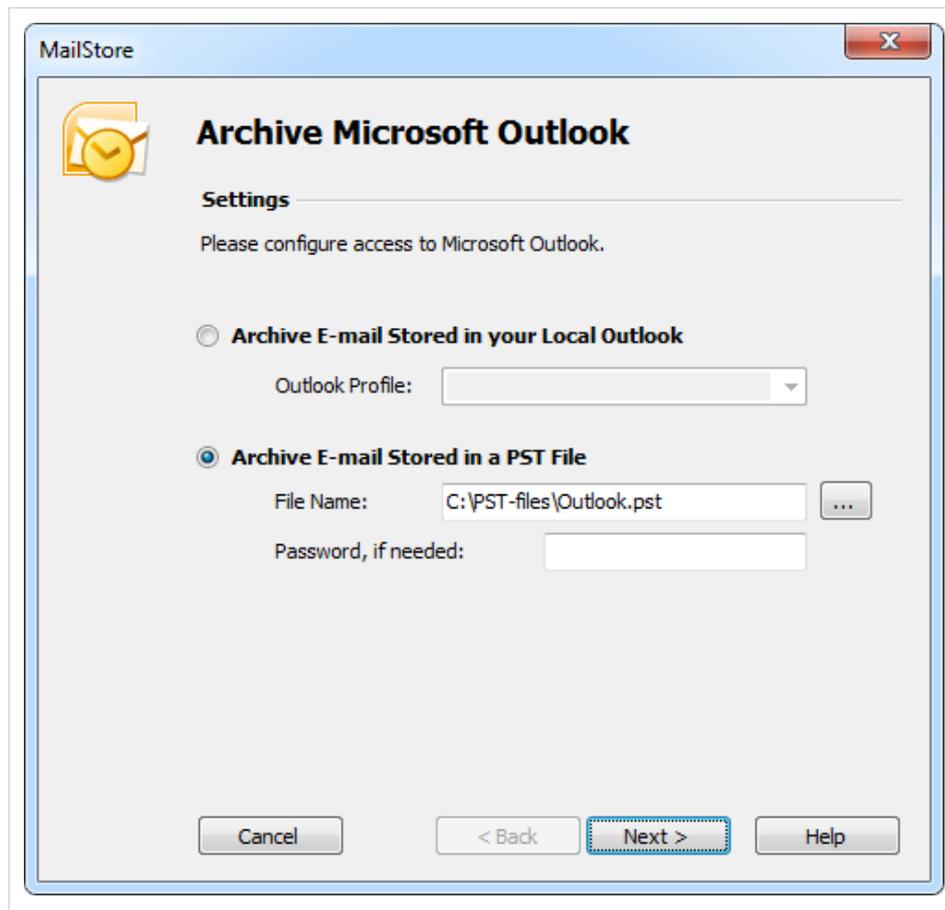
With MailStore, PST files can be archived directly. Compared with Archiving Emails from Outlook, this has the advantage that archiving tasks can be created and executed independently from users and user computers. Therefore, as administrator, you should be able to access the individual PST files of the users from your computer (by keeping them on a network drive, for example).

Please note: The computer used for archiving PST files through 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.

For each PST file, please proceed as follows:

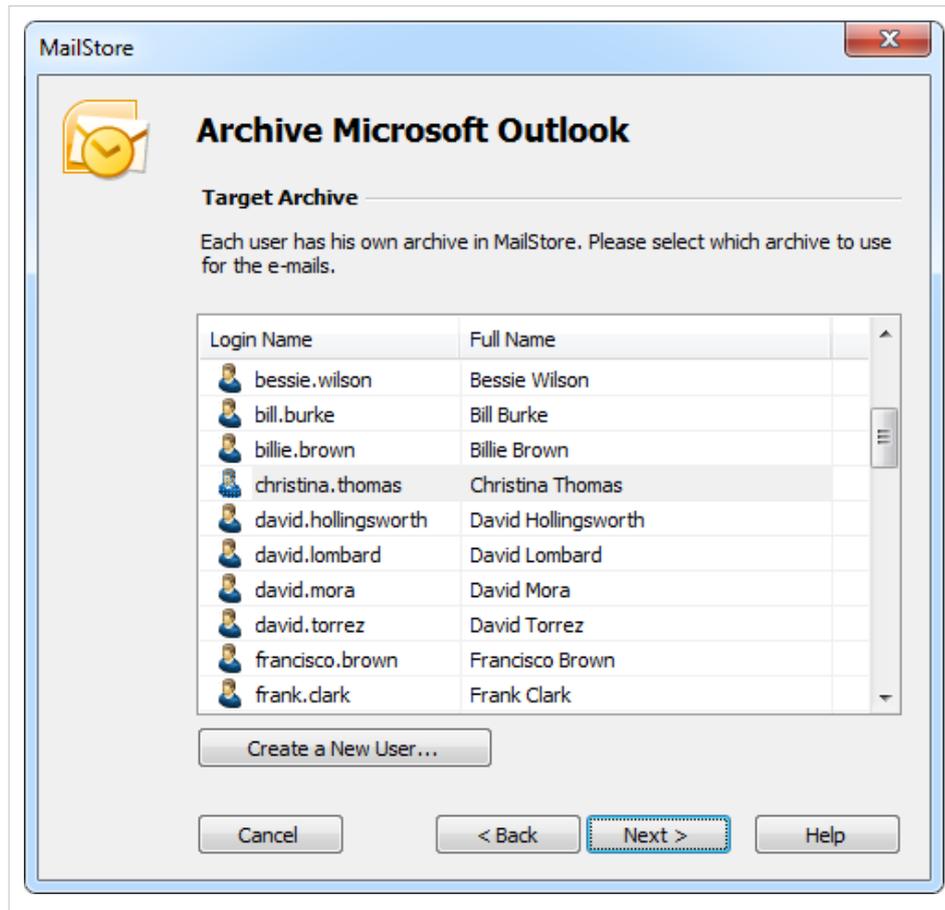
- Users can only archive their own PST files to their personal user archive. To archive the emails of other users, you have to be logged on to MailStore Client as MailStore administrator.
- In MailStore, click on *Archive Email*.
- From the *Email Files* list in the *Create Profile* area of the application window, select *Outlook PST File* to create a new archiving profile.
- The dialog window *Archive Microsoft Outlook* appears.



- As source, select *Archive Email Stored in a PST File* 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 list of folders to be archived, the deletion rules and the filter.



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



- 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. In addition, MailStore detects if emails within the source application (e.g. Microsoft Outlook) were moved to a different folder and repeats such moves in MailStore accordingly.

Automating the archiving process

In addition to being executed manually, archiving tasks can also be executed automatically according to a schedule. Simply right-click on an existing profile and select *Schedule...*. Additional information about this topic is available in the chapter Automating the Archiving Process.

Please note: As long as no deletion rules were specified upon creating the archiving profile, MailStore will never delete or otherwise modify emails in the source application (e.g. Microsoft Outlook).

2.5 Archiving Emails from External Systems (File Import)

MailStore can archive the emails from applications that are not directly supported if they are available in a standardized format. With such applications it will be necessary to access directly or to export the emails to one of these formats first.

Using file import, MailStore can archive the following formats:

- **EML** - One file per email. Often called RFC822 or MIME format.
- **MSG** - One file per email. Microsoft Outlook email files.
- **PST** - Microsoft Outlook personal folder files.
- **MBOX** - The file ending is .mbx. 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

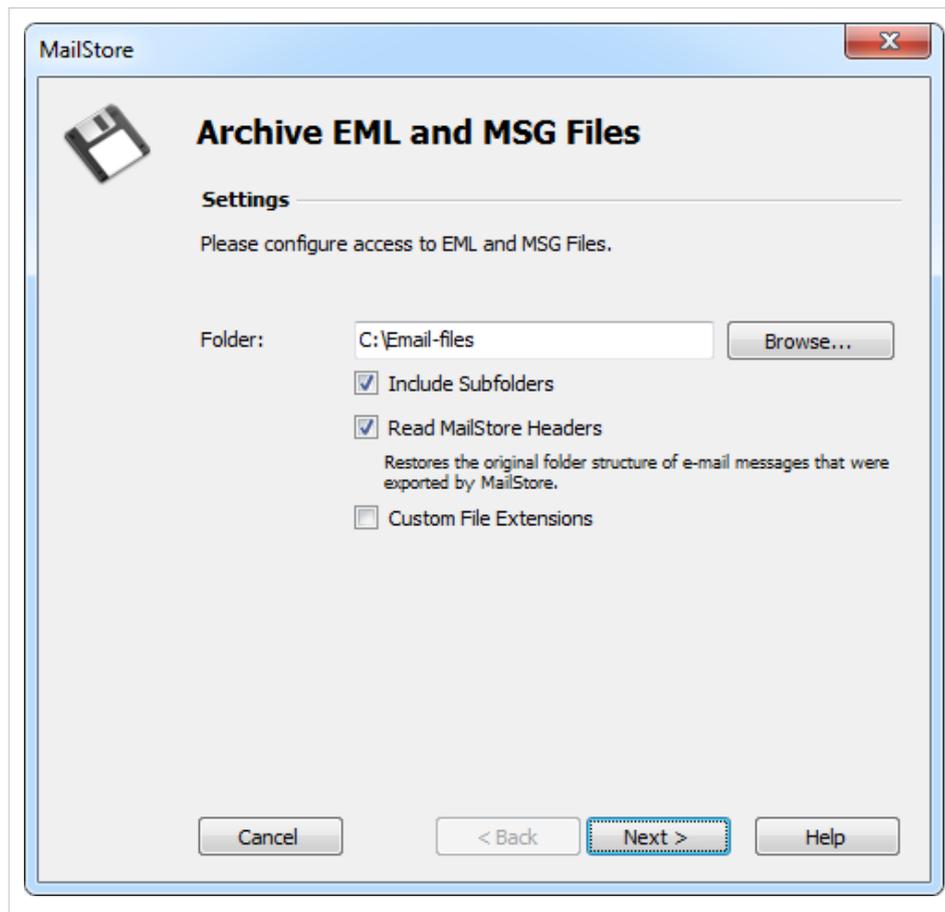
Archiving PST files is described separately in chapter Archiving Outlook PST Files Directly.

Procedure for Archiving EML and MSG Files

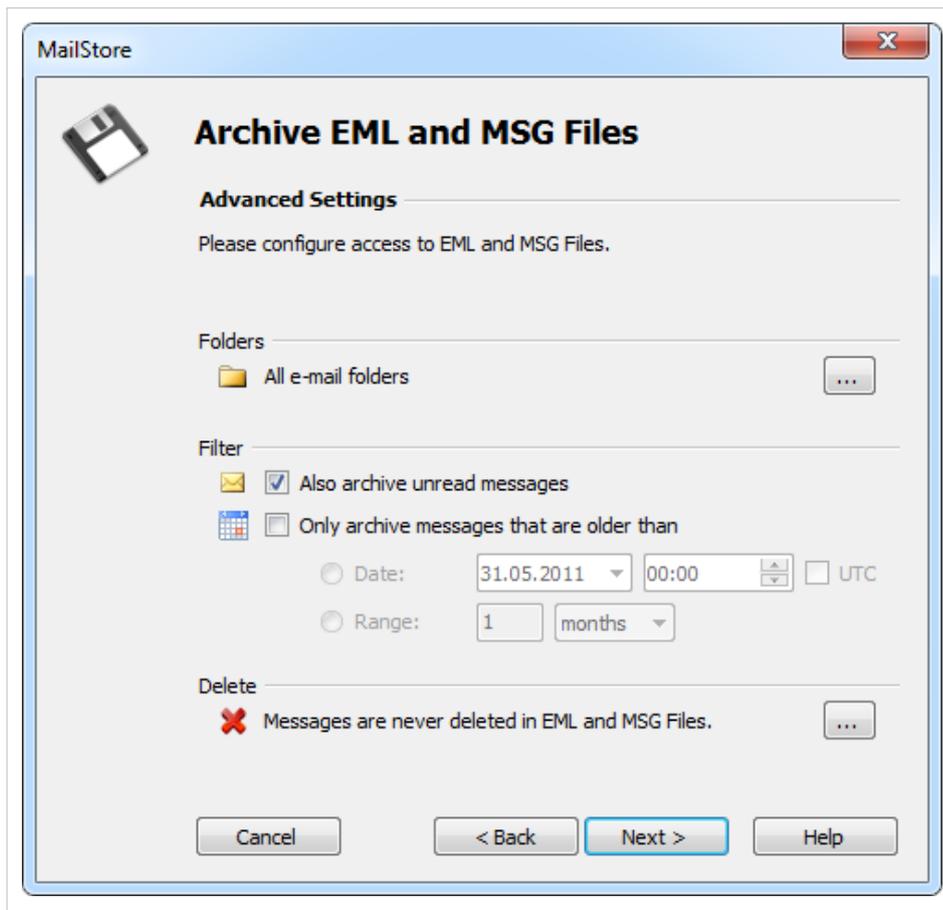
Setting up archiving processes for files from the file system is done using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

Please proceed as follows:

- Users can only archive their own email files to their personal user archive. To archive the emails of other users, they have to be logged on to MailStore Client as MailStore administrator.
- In MailStore, click on *Archive Email*.
- From the *Email Files* list in the *Create Profile* area of the application window select *Directory (File System)*.
- A wizard opens, guiding you through the setup process.
- Select the file type to be archived (e.g. EML or MSG files) and click on *OK*.



- Select the folder to be archived. All email files in this folder will be archived.



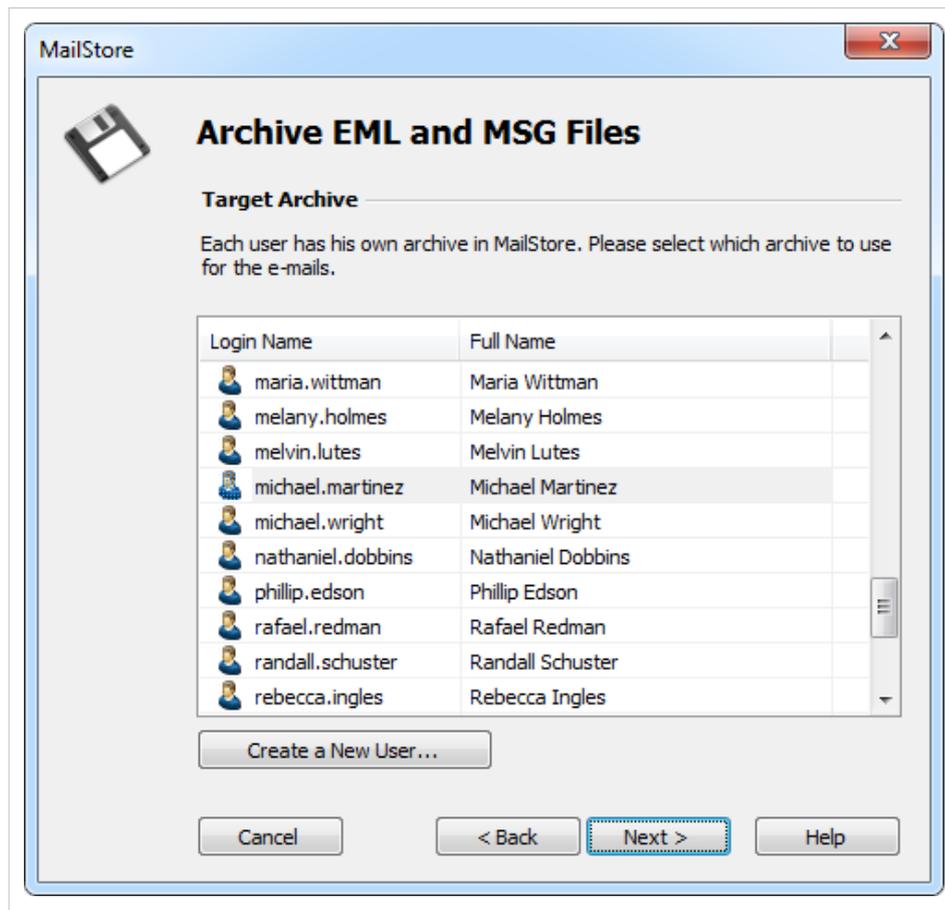
- If desired, adjust the advanced settings or simply click *Next*.

Include Subfolders: Not only the emails in the selected folder are archived but also those located in any subfolders.

Read MailStore Headers: RFC822 files created by the MailStore-specific export process contain additional information such as the source folder. Remove the checkmark if this information is to be ignored.

Custom File Extensions: Choose this option if the files to be archived are in EML format but have a different file ending.

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



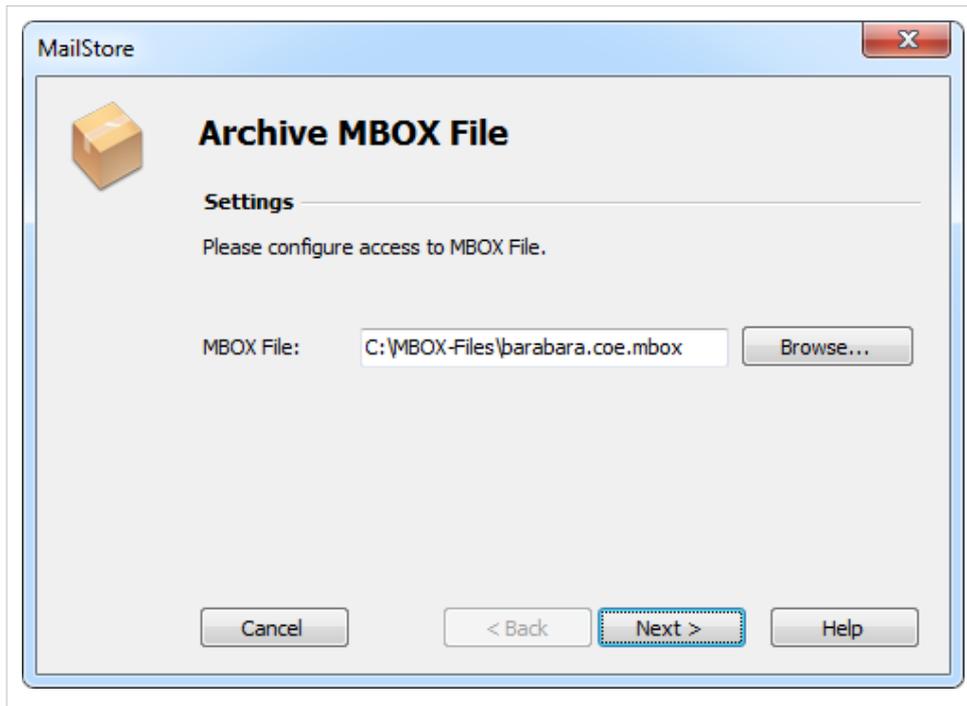
- At the last step, a name for the new archiving profile can be specified. After clicking on *Finish*, the archiving profile will be listed under *Saved Profiles* and can be run immediately, if desired.

Procedure for Archiving MBOX Files

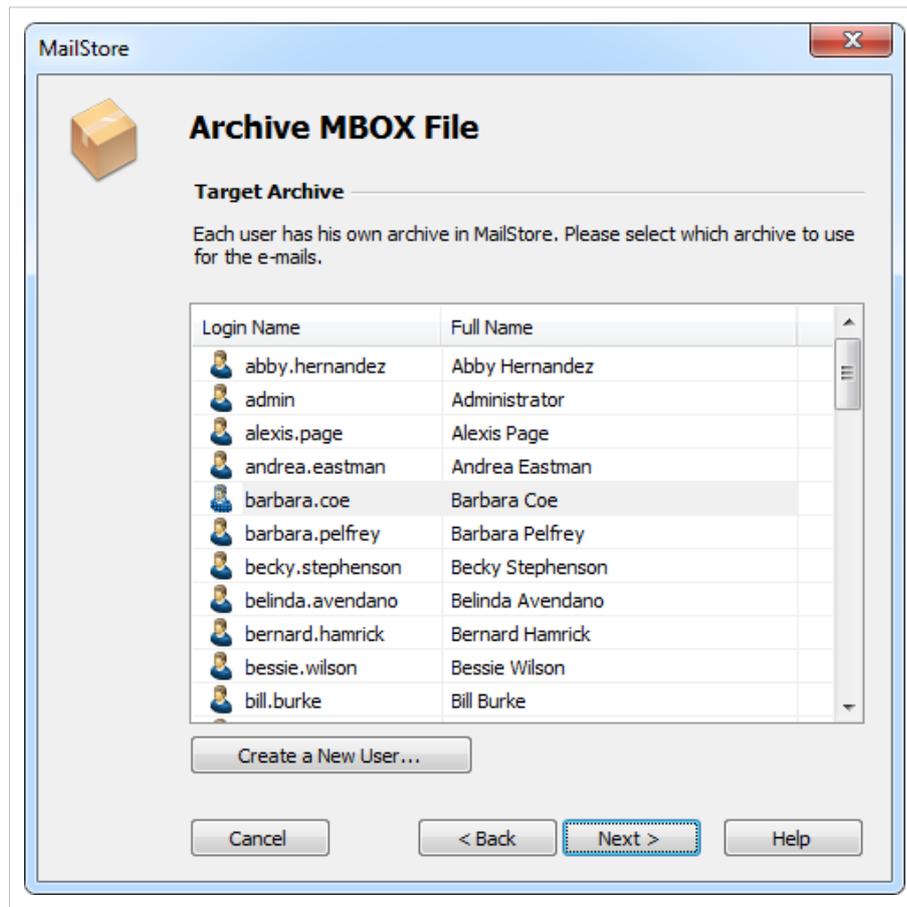
Setting up the archiving process for files from the file system is done using archiving profiles. General information about archiving profiles is available in chapter Working with Archiving Profiles.

Please proceed as follows:

- Users can only archive their own email files to their personal user archive. To archive the emails of other users, you have to be logged on to MailStore Client as MailStore administrator.
- In MailStore, 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.



- 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.



- 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.

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. In addition, MailStore detects if emails within the source application (e.g. Microsoft Outlook) were moved to a different folder and repeats such moves in MailStore accordingly.

Automating the archiving process

In addition to being executed manually, archiving tasks can also be executed automatically according to a schedule. Simply right-click on an existing profile and select *Schedule....* Additional information about this topic is available in the chapter *Automating the Archiving Process*.

Please note: As long as no deletion rules were specified upon creating the archiving profile, MailStore will never delete or otherwise modify emails in the source application (e.g. Microsoft Outlook).

2.6 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?

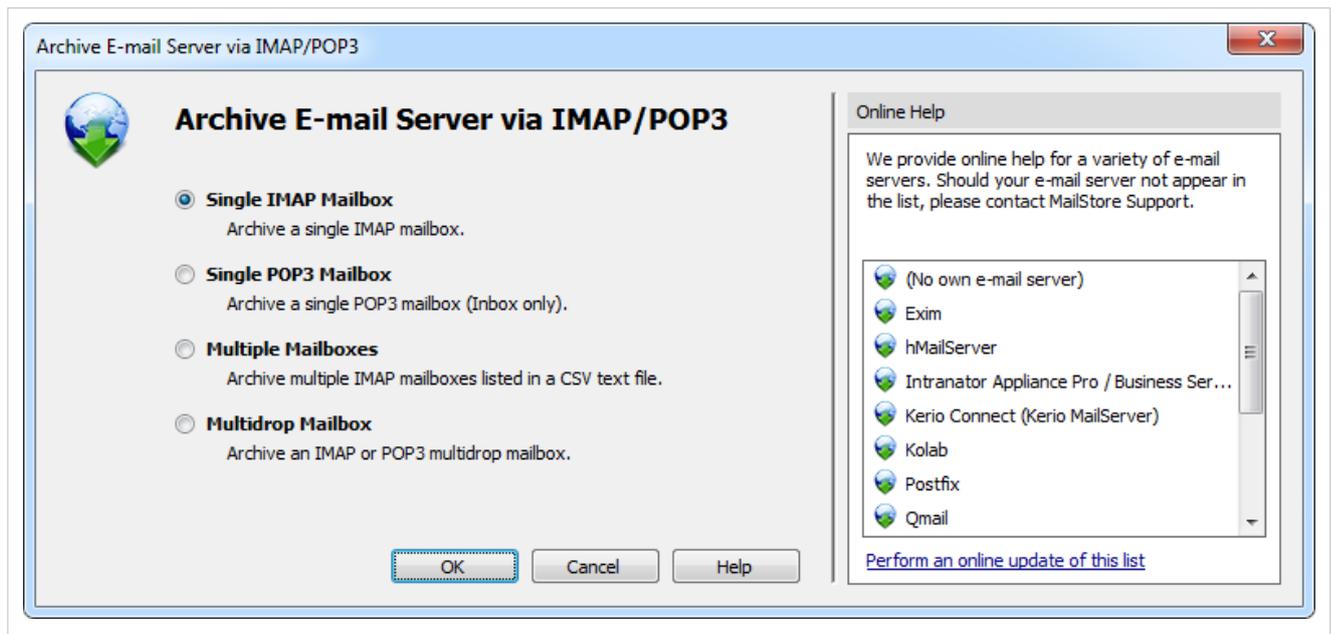
When choosing between IMAP and POP3, we strongly recommend using IMAP. With IMAP, all or specific folders of the mailbox can be archived. POP3 does not "recognize" any folders; because of this it is likely that, with most service providers, only the inbox will be archived.

Setting Up the Archiving Process

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:

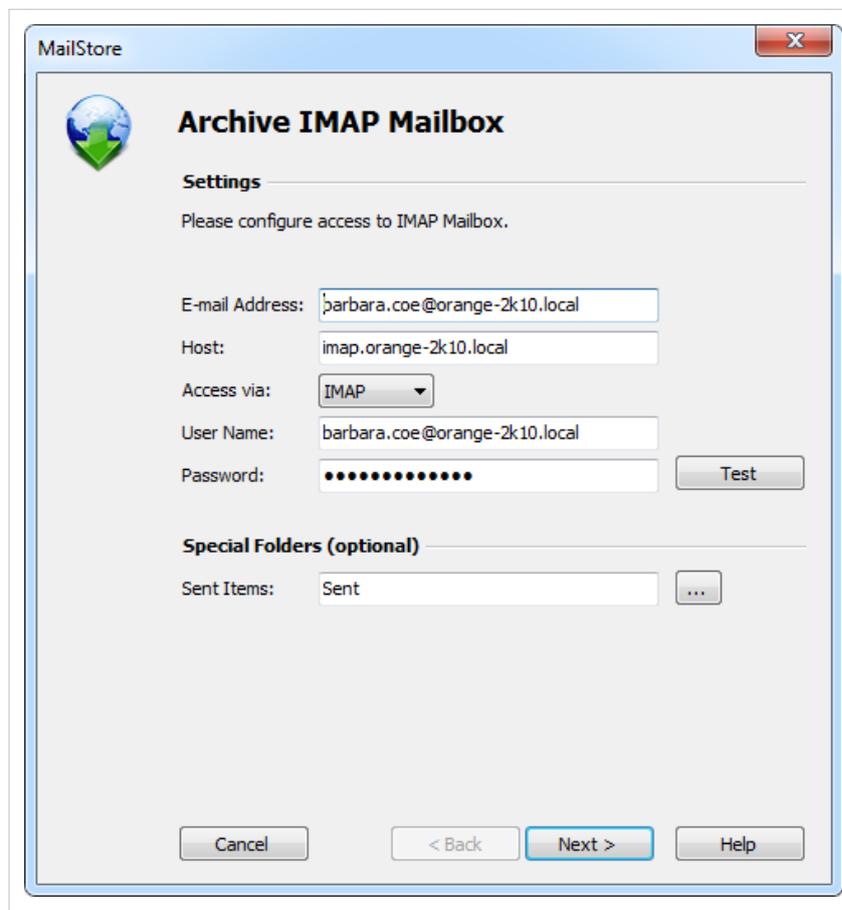
- Users can only archive their own mailboxes to their personal user archive. To archive the emails of other users, you have to be logged on to MailStore Client as MailStore administrator. Only MailStore administrators can archive the emails of other users.
- In MailStore, click on *Archive Email*.
- 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.



Hint: Click on an entry in the *Online Help* area to open the corresponding Implementation Guide.

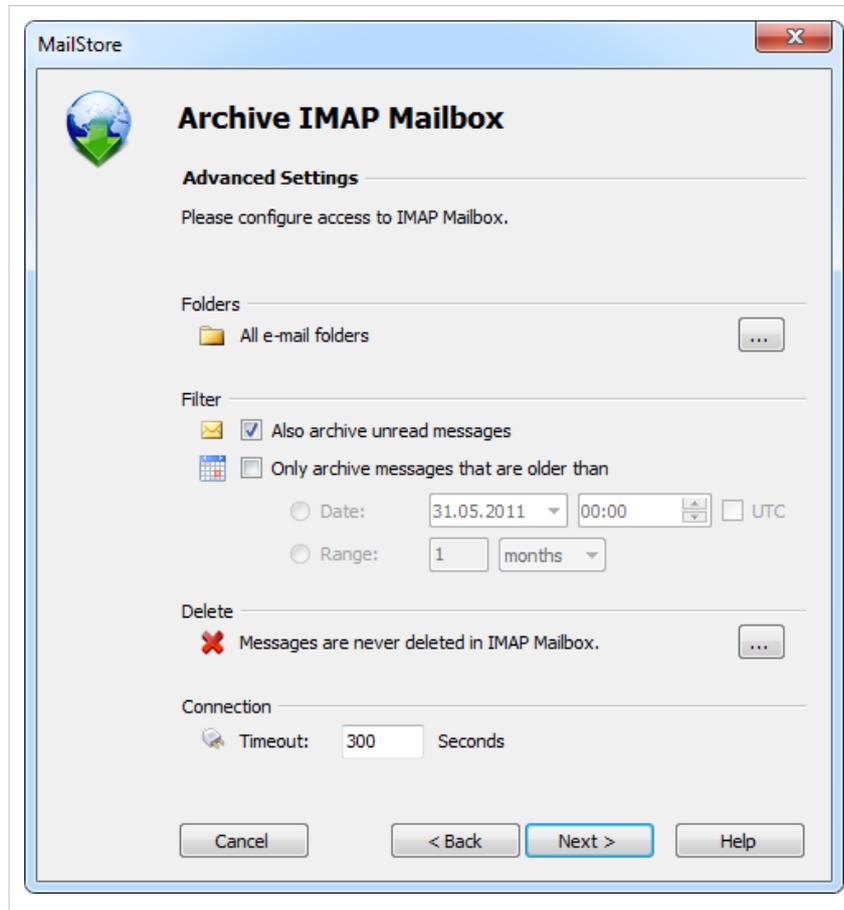
- Select *Single Mailbox* and click on *OK*.
- Fill out the fields *Email Address*, *Host*, *Access via*, *User Name* and *Password*. Click on *Test* to verify the data entered.

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.

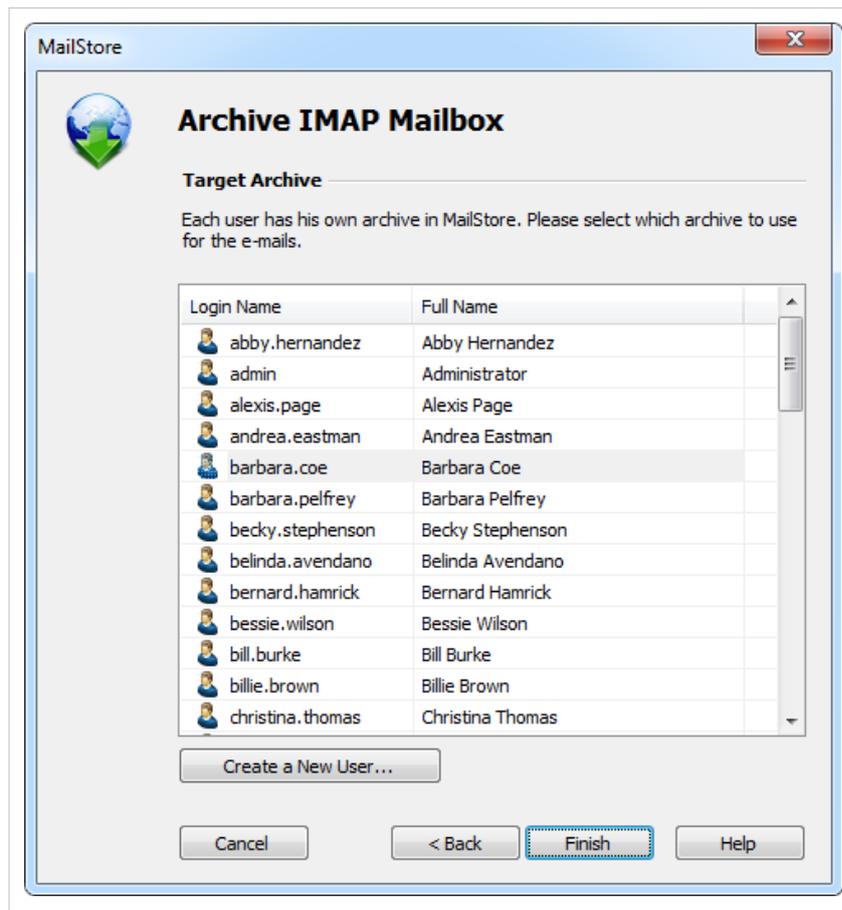


- Click on *Next*.

- If needed, adjust the list of folders to be archived (only available with IMAP), the deletion rules (only available with IMAP), the filter (also only available with IMAP) and the timeout value in seconds. The timeout value only has to be adjusted in specific cases (e.g. with very slow servers).



- 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.



- 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. In addition, MailStore detects if emails within the source application (e.g. Microsoft Outlook) were moved to a different folder and repeats such moves in MailStore accordingly.

Automating the archiving process

In addition to being executed manually, archiving tasks can also be executed automatically according to a schedule. Simply right-click on an existing profile and select *Schedule...* Additional information about this topic is available in the chapter Automating the Archiving Process.

Please note: As long as no deletion rules were specified upon creating the archiving profile, MailStore will never delete or otherwise modify emails in the source application (e.g. Microsoft Outlook).

2.7 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.

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:

	A	B	C	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	l.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.

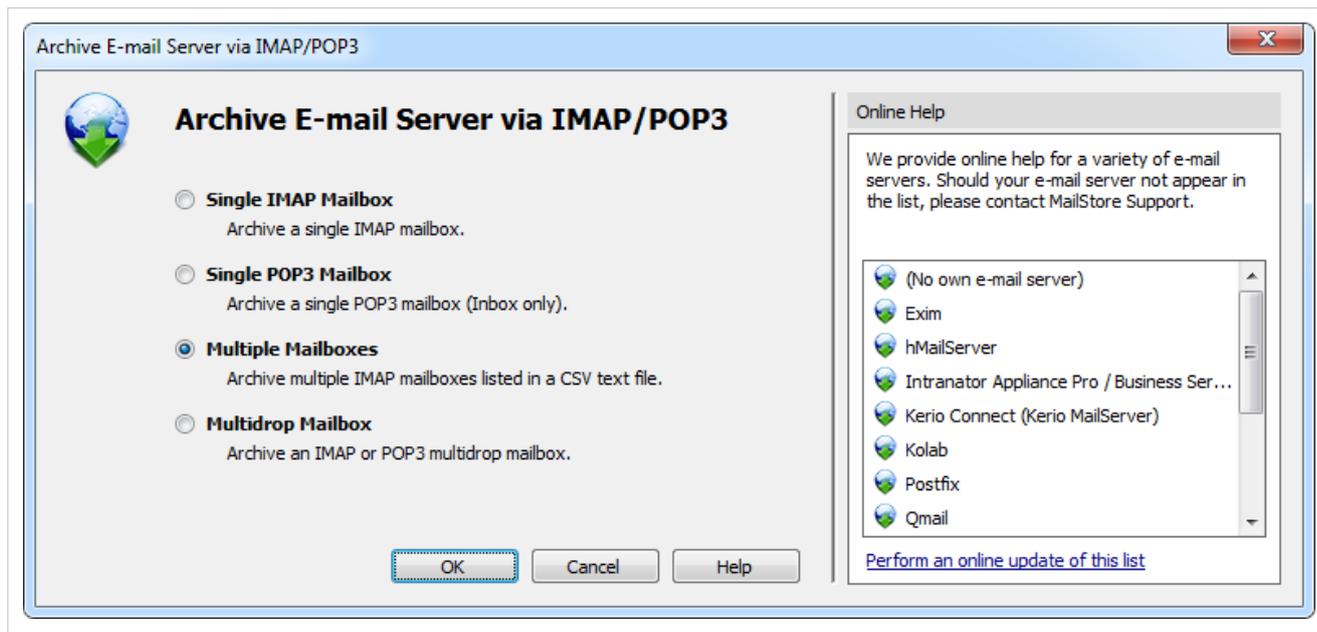
This way, any number of mailboxes of an email server may be entered. When finished, save the file in .csv format (if Microsoft Excel is used via the *Save As* function).

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.

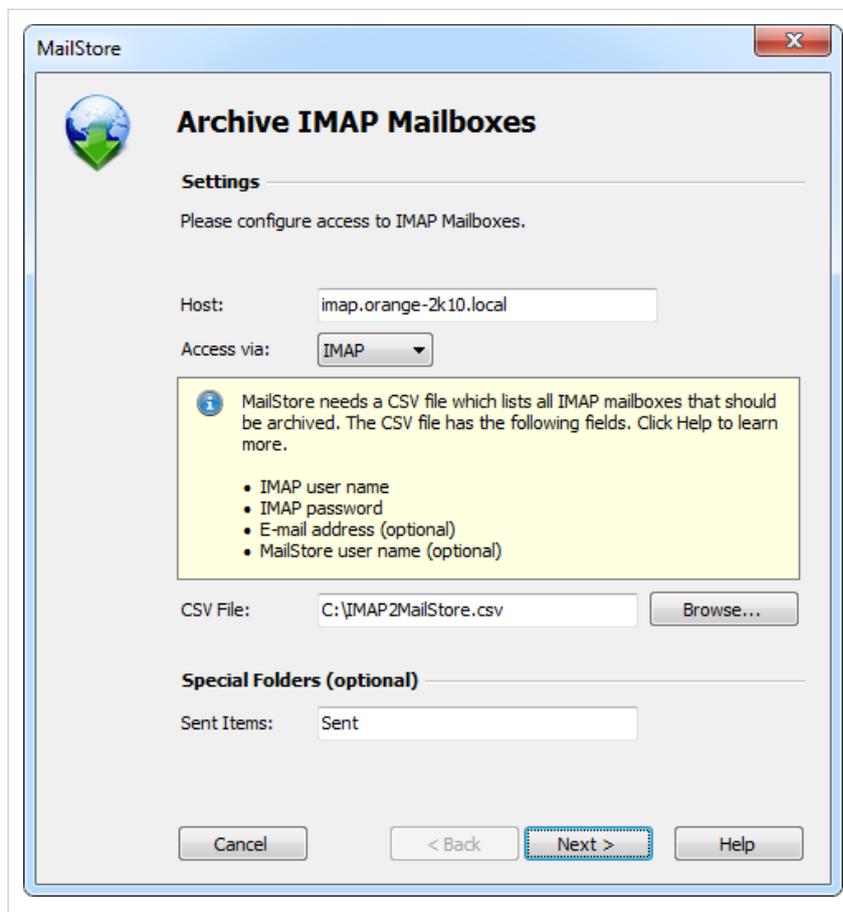
Please proceed as follows:

- 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.



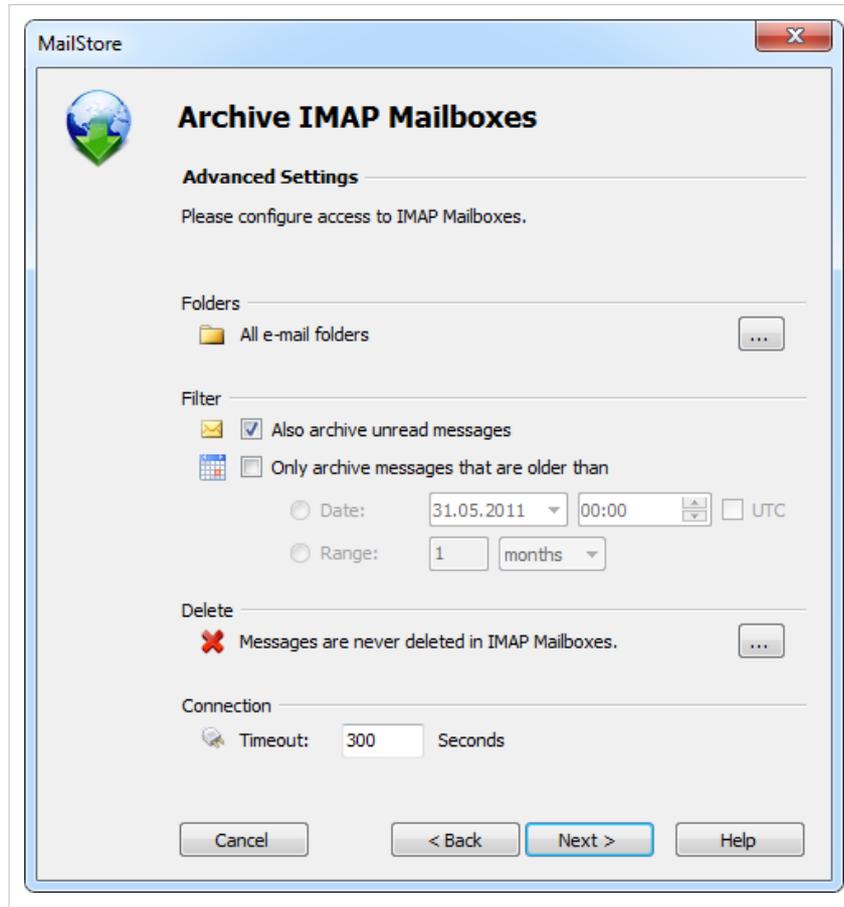
- Select *Multiple Mailboxes* and click on *OK*.
- Fill out the field *Host* and *Access via* and under *CSV File* enter the path of the new CSV file (created as described above). This file contains the access information for the mailboxes to be archived. Under *Special Folder (optional)* you may enter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



- Click on *Next*.

- If needed, adjust the list of folders to be archived, the deletion rules, the filter and the timeout value in seconds. The timeout value only has to be adjusted in specific cases (e.g. with very slow servers).



- 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. In addition, MailStore detects if emails within the source application (e.g. Microsoft Outlook) were moved to a different folder and repeats such moves in MailStore accordingly.

Automating the archiving process

In addition to being executed manually, archiving tasks can also be executed automatically according to a schedule. Simply right-click on an existing profile and select *Schedule...* Additional information about this topic is available in the chapter Automating the Archiving Process.

Please note: As long as no deletion rules were specified upon creating the archiving profile, MailStore will never delete or otherwise modify emails in the source application (e.g. Microsoft Outlook).

2.8 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.

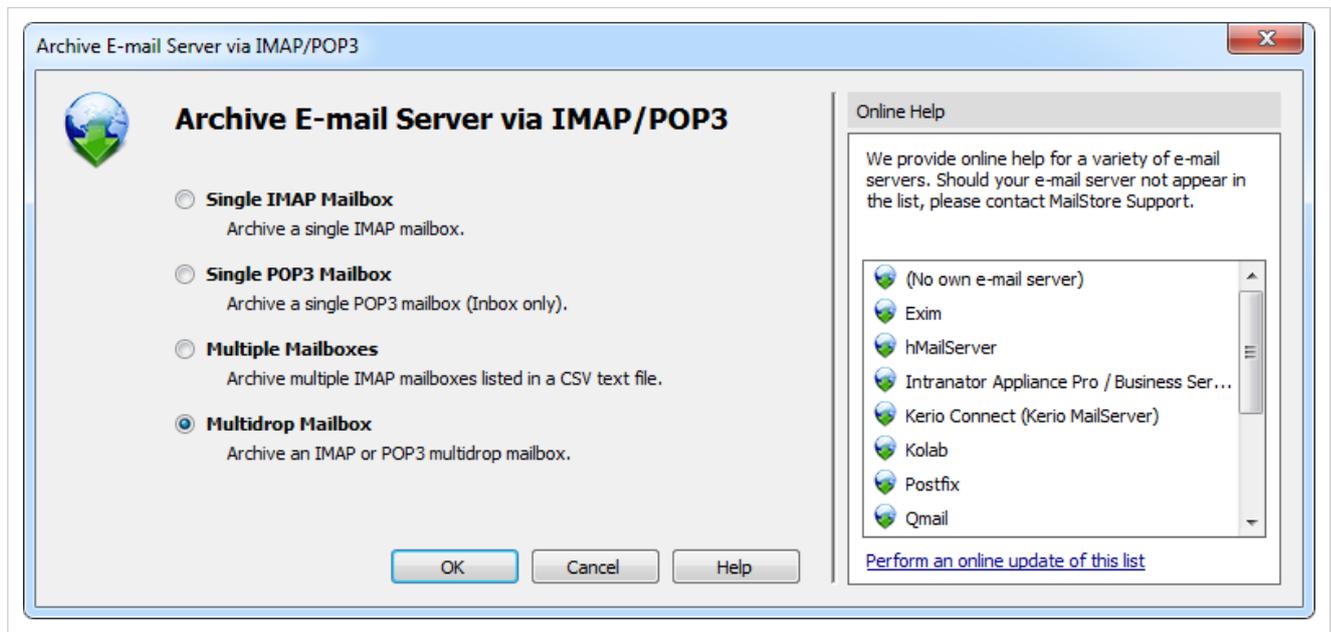
Important: This article describes the general procedure independent from the e-mail server used. Please find e-mail server specific information in our Implementation Guides.

Setting up the Archiving Process

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.

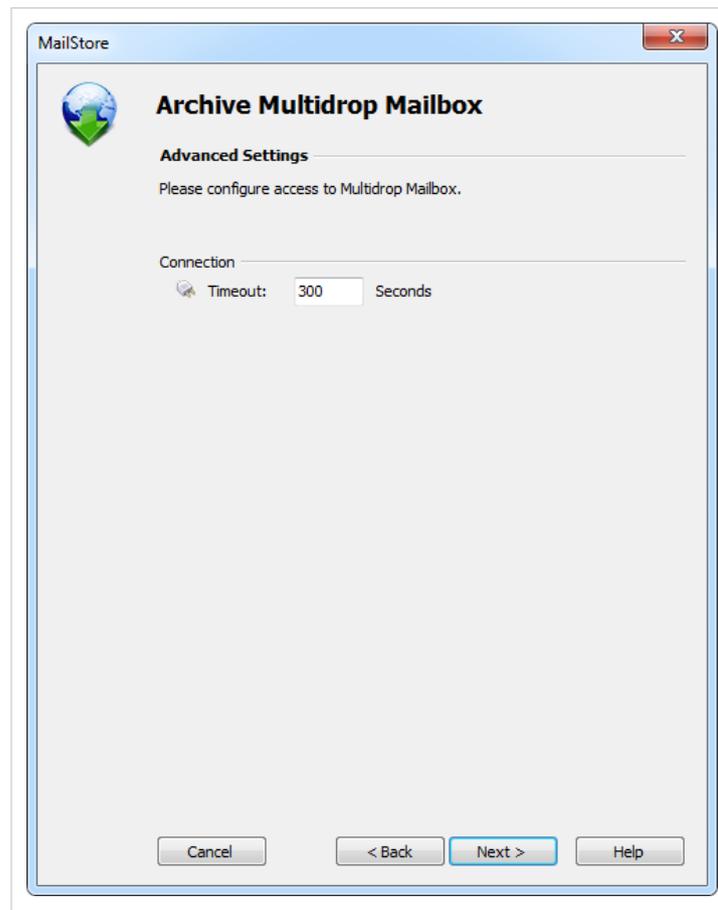


- Select *Multidrop Mailbox* and click *OK*.
- Fill out the fields *Access via*, *Host*, *Username* and *Password*. Click on *Test* to verify the data entered.

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.

The screenshot shows the 'Archive Multidrop Mailbox' settings window in MailStore. The window has a title bar with 'MailStore' and a close button. Inside, there's a globe icon and the title 'Archive Multidrop Mailbox'. Below the title is a 'Settings' section with a descriptive paragraph: 'Many e-mail servers can deliver a copy of all sent and received e-mail messages to a multidrop mailbox. MailStore can process such multidrop mailboxes.' The settings are organized into several sections: 'Access via:' with a dropdown set to 'IMAP'; 'Host:' with the text 'imap.orange-2k10.local'; 'User Name:' with 'catchall@orange-2k10.local'; and 'Password:' with a masked field and a 'Test' button. The 'Target Folders' section has two rows: 'Received:' with 'User / E-mail Address /' and 'Inbox'; and 'Sent:' with 'User / E-mail Address /' and 'Sent Items'. The 'Messages with unknown e-mail addresses' section has two radio buttons: 'Archive messages here:' (selected) with a text field containing 'admin/Unknown e-mail addresses' and a '...' button, and 'Don't archive message with unknown e-mail addresses'. The 'When e-mails are successfully archived' section has a checkbox for 'Delete them in origin mailbox'. The 'Directory Services' section has a checkbox for 'Synchronize with Directory Services before archiving' and a 'Configure...' button. At the bottom are 'Cancel', '< Back', 'Next >', and 'Help' buttons.

- 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.
- 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, 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. In addition, MailStore detects if emails within the source application (e.g. Microsoft Outlook) were moved to a different folder and repeats such moves in MailStore accordingly.

Automating the archiving process

In addition to being executed manually, archiving tasks can also be executed automatically according to a schedule. Simply right-click on an existing profile and select *Schedule....* Additional information about this topic is available in the chapter Automating the Archiving Process.

Please note: As long as no deletion rules were specified upon creating the archiving profile, MailStore will never delete or otherwise modify emails in the source application (e.g. Microsoft Outlook).

2.9 Archiving Incoming and Outgoing Emails Directly

In addition to archiving server mailboxes, files and email applications (clients), MailStore also provides the option to archive all incoming and outgoing emails automatically and in their entirety.

Below, some of the advantages and disadvantages are described to help determine if this way of archiving is suitable for your company:

Advantages

- Users cannot delete or modify any emails before archiving.
- In many cases, archiving all incoming and outgoing emails automatically and in their entirety is the only practical solution to complying with legal requirements and regulations.
- As opposed to archiving emails from local email clients such as Outlook or Thunderbird, this type of archiving does not require an installation of MailStore Client software on the user computers.
- This way of archiving can also be conducted in non-Windows environments. Only the installation of the main program, MailStore Server, requires a computer with a Windows operating system.

Disadvantages

- Depending on the configuration, unwanted emails, such as spam, are archived as well.
- The folder structure created by the user is ineffective, because emails are archived before being stored into folders.
- Depending on the configuration, adjustments to the settings of the local email clients (e.g. Outlook) may be necessary.

How It Is Done

MailStore can archive the entire incoming and outgoing email traffic automatically. If an Exchange server is available, this can be done through its Envelope Journaling function. In all other system environments, MailStore Proxy can be used. MailStore Proxy is available to all MailStore Server customers free of charge.

The exact way of proceeding depends on the email system that is used:

- Archiving Emails Without Your Own Emailserver (e.g. Hosted Exchange or POP3/IMAP-mailbox provided by an ISP)
- Exim
- hMailServer
- Intranator Appliance Pro / Business Server
- Kerio Connect (Kerio MailServer)
- Kolab
- MDAemon
- Microsoft Exchange 2003
- Microsoft Exchange 2007
- Microsoft Exchange 2010

- Microsoft Office 365
- Postfix
- Qmail
- Scalix
- Sendmail
- SmarterMail
- Tobit David.fx
- Zarafa
- Zimbra Collaboration Suite
- Other e-mail servers: MailStore Proxy

3

Chapter

Accessing the Archive

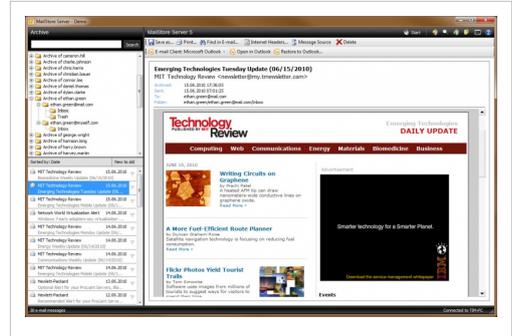
3.1 Accessing the Archive

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.

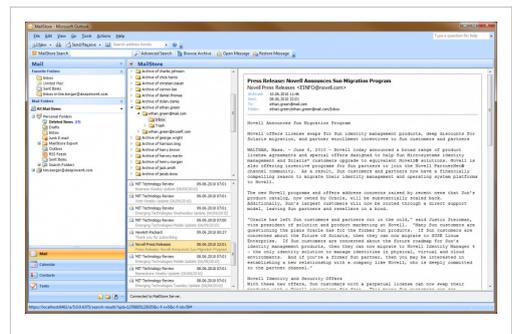
MailStore Client Manual



Accessing the Archive with the Microsoft Outlook Integration

With a MailStore add-in, users can access the archive directly from Microsoft Outlook. The add-in can be included in the installation of MailStore Client.

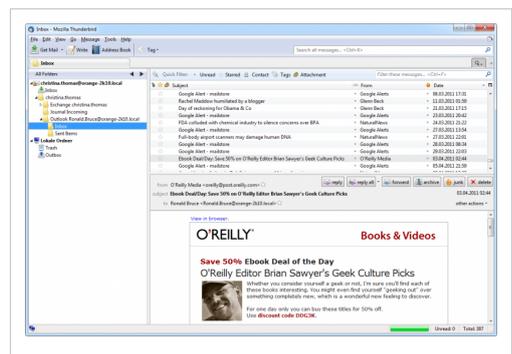
MailStore Outlook Add-in Manual



Accessing the Archive via Integrated IMAP Server

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 comfortable way of accessing the archive.

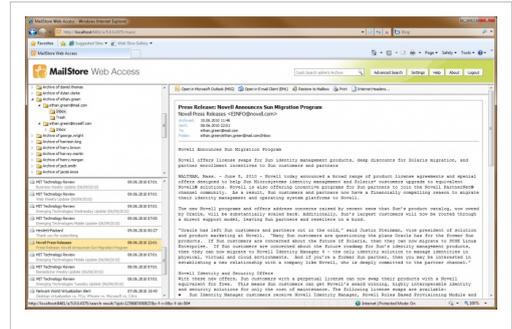
MailStore Integrated IMAP Server Manual



Accessing the Archive with MailStore Web Access

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 iPhone and iPod touch

Users can access the archive using their iPhone or iPod touch using a version of MailStore Web Access specialized for these devices.

MailStore iPhone Client Manual



3.2 Accessing the Archive with the MailStore Client software

Installation

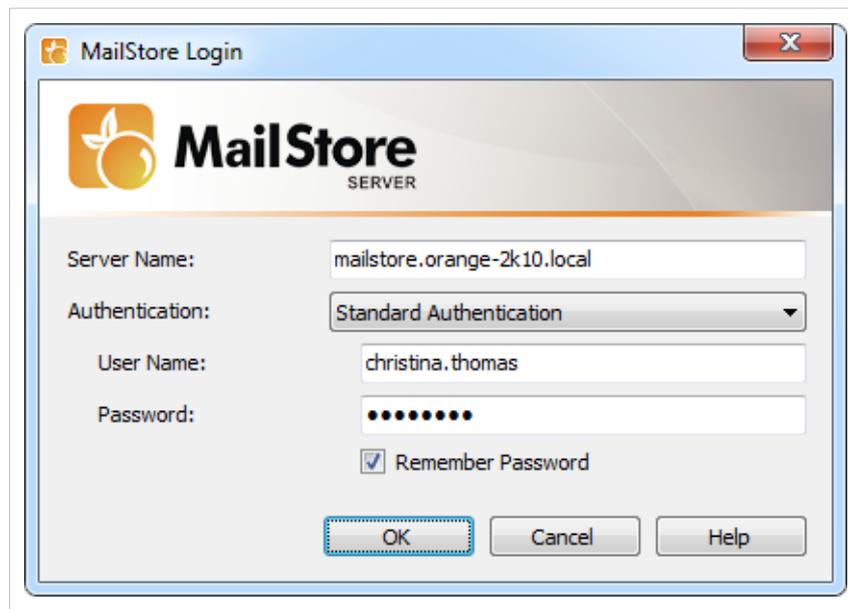
The MailStore Client setup file that matches your MailStore Server version is stored on the MailStore Server machine. Follow the *Install MailStore Client on other Computers* link on your desktop and copy the corresponding setup file to the client computer.

It is a regular Windows setup program, that can be 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 through the Active Directories Group Policy feature. More information on that can be found in the article MailStore Client Deployment

Starting and Login

Start MailStore Client by using the appropriate link on the desktop. The login window appears.



Put the IP address or hostname of the MailStore Server machine into *Server Name*. Be aware, that the pre-filled entry *localhost* only works if the MailStore Client is run from the same machine where MailStore Server is installed.

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*. You may be asked to trust the MailStore Server; click *OK* here.

Important notice: As long as you have not changed the default administrator password (admin), you will not be able to login from any other machine with the username *admin*.

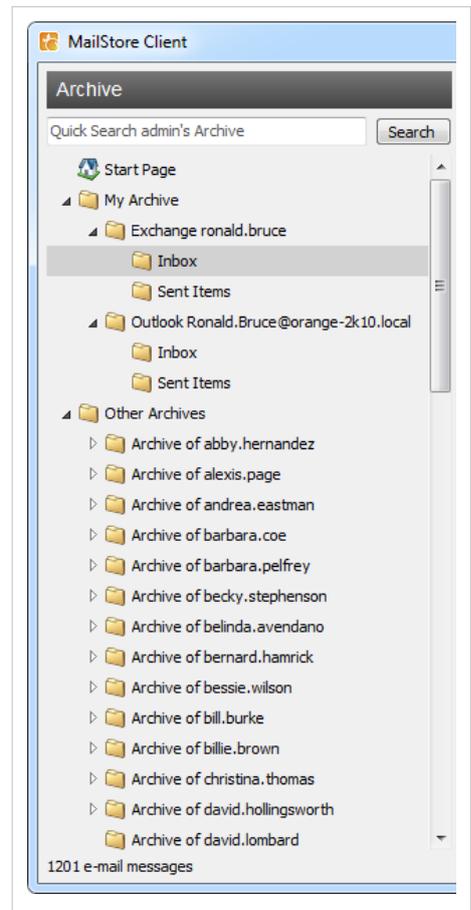
Searching by Folder Structure

MailStore stores all archived emails in a MailStore-specific folder structure, in which emails are displayed using the same structure as their corresponding source application. This means that folders created in the source application (e.g. Microsoft Outlook) are not changed during the archiving process and can be found easily in MailStore as well.

User Archives

For every user, MailStore creates a folder called *My Archive* on the highest level of the folder structure. Each folder corresponds to the user archive of the respective user and contains all his or her emails.

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



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.

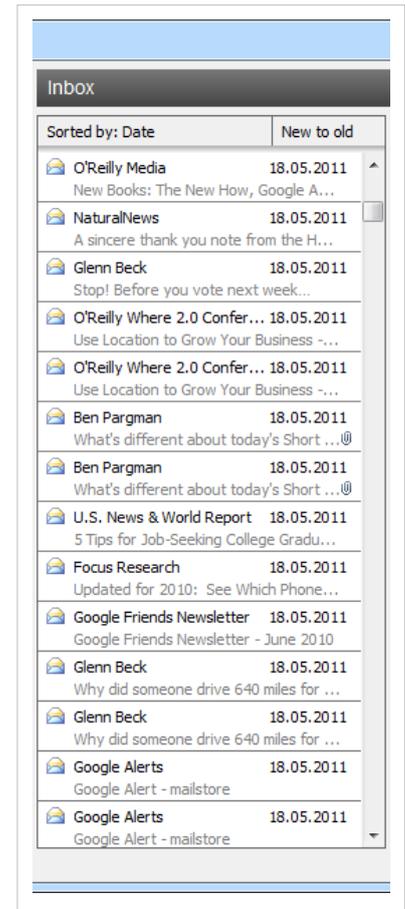
Refreshing the View

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.

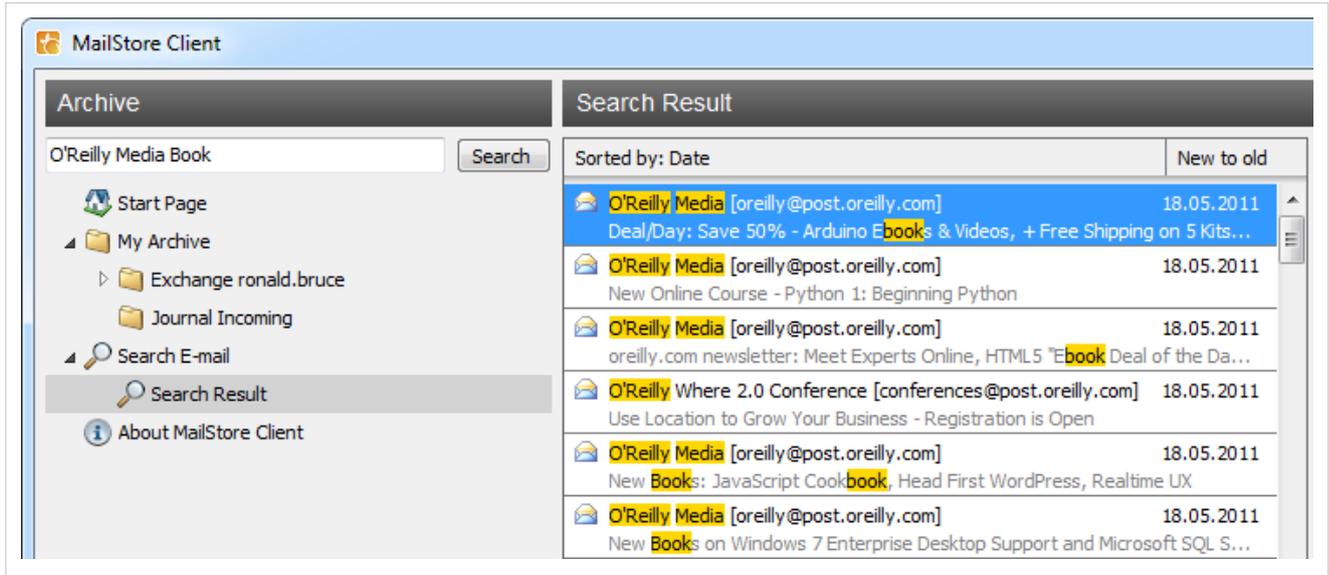
Creating, Renaming and Deleting Folders

Information about how to create, rename and delete folders is available in the chapter The MailStore Folder Structure.



Quick Search

With MailStore's integrated quick search feature, users can browse through all emails in all user archives they have access to. Quick search is especially suitable for simple queries. Alternatively, an Extended Search can be used.



Using Quick Search

Quick search is located in the upper left area of the application window. Simply enter one or more keywords into the search field and click on *Search* or press Enter. Search results are displayed in the column right of the folder list. If a keyword appears in the header or the subject line, it is highlighted.

Searching for Word Fragments

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

```
auto*
```

would locate "auto", "automatic", "automobile" and others.

Searching for Phrases

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

```
"Microsoft Windows"
```

would only locate Microsoft Windows, not Microsoft Works or Windows 95.

Narrowing by Fields

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

```
subject:News           only in Subject
from:john@mailstore.com only in From
to:michael@mailstore.com only in To
cc:lisa@mailstore.com  only in Cc
bcc:customers@mailstore.com only in Bcc
```

Excluding Words

To narrow a search, it may be desired to specify words that must NOT be present in the emails. To exclude keywords from the search results, simply place a minus (-) sign in front of them. For example:

```
ZDNet -download-hint
```

would locate all emails from ZDNet, but not download-hint.

Combining Search Options

The search options described above can also be combined. For example:

```
ZDNET -"Daily Update"
```

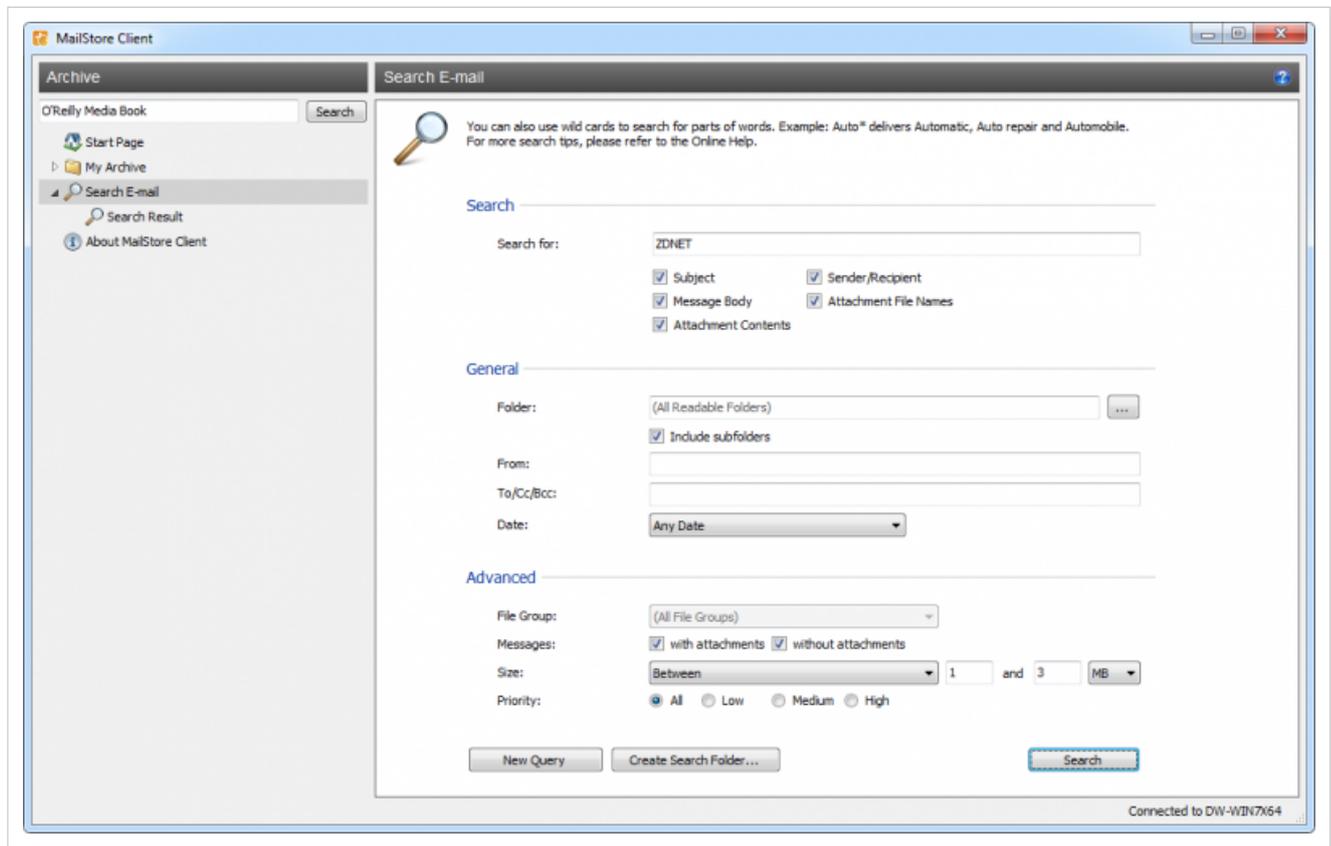
would locate all emails from ZDNet which do not contain the consecutive words Daily Update.

Extended Search

With MailStore's integrated extended search, complex search processes can be carried out. Not only can the email content be searched but also parameters such as date and email size.

Using the Extended Search

In the MailStore application window, click on *Search Email*. Specify the search criteria for the emails that are to be included in the results. The criteria are AND-connected, meaning that the search results include only those emails that satisfy all criteria specified. Click on *Search* to start the search.



Search Criteria under "Search"

Enter a keyword or phrase into the text field, and specify where MailStore is to direct 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*).

In the textfield *Search for*, all options described in section Quick Search, such as phrases and wildcards, are available here 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, this is the main folder of the current user. By clicking the button to the right of the text field, folders can also be selected using the folder structure. As administrator, the folders of all users can be searched.
- **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 only within the email's sender field.
- **To/Cc/Bcc** - Any keywords or email addresses entered here are searched for only within the email's recipient fields.
- **Date** - The timeframe 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.

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

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 of 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.

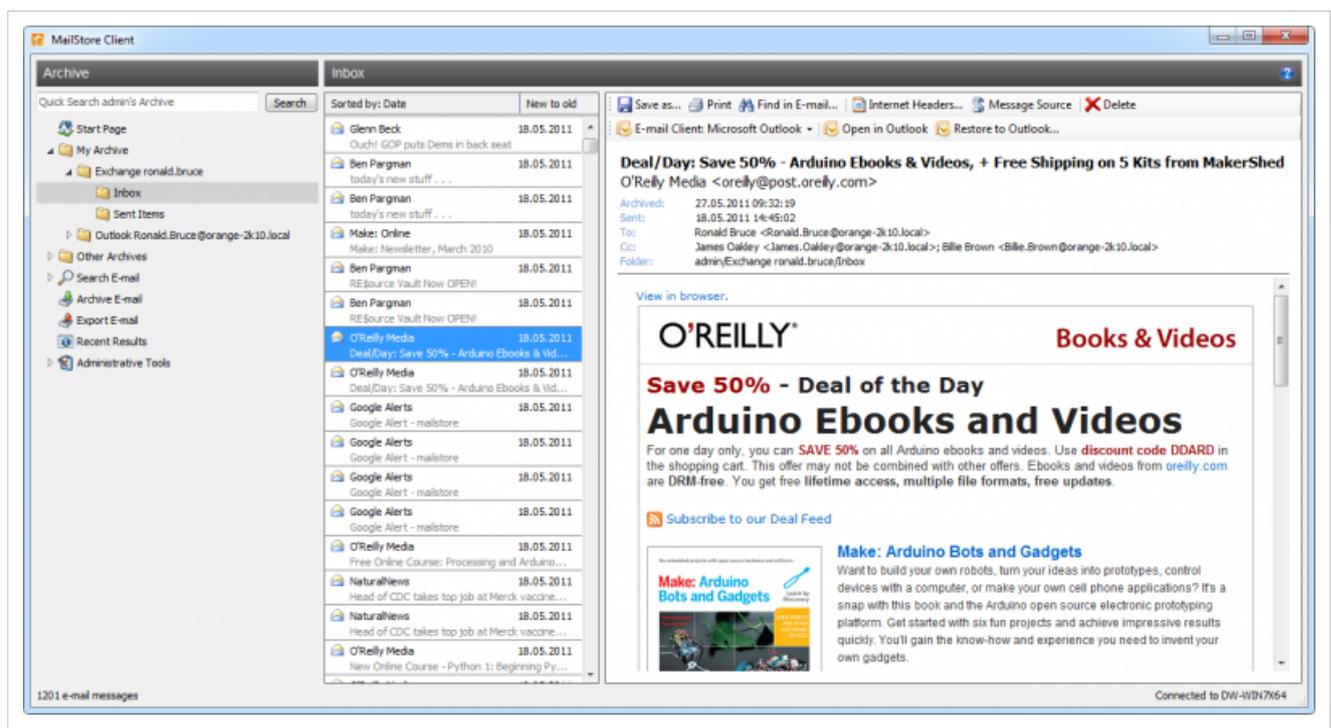
The new search folder will be available under the *Search Email* folder on the left side of the application window.

To modify a search folder, right click on the corresponding folder under *Search Email* on the left side of the application window and select *New Search Query*. After modifying the search criteria, click on *Create Search Folder...* and save it under the same name again.

To rename or delete a search folder, right click on on the corresponding folder under *Search Email* on the left side of the application window and click on the appropriate entry.

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 Outlook Express by drag & drop.
- **Outlook MSG** - These files can be opened with or imported to all versions of Microsoft Outlook (not Outlook Express) 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

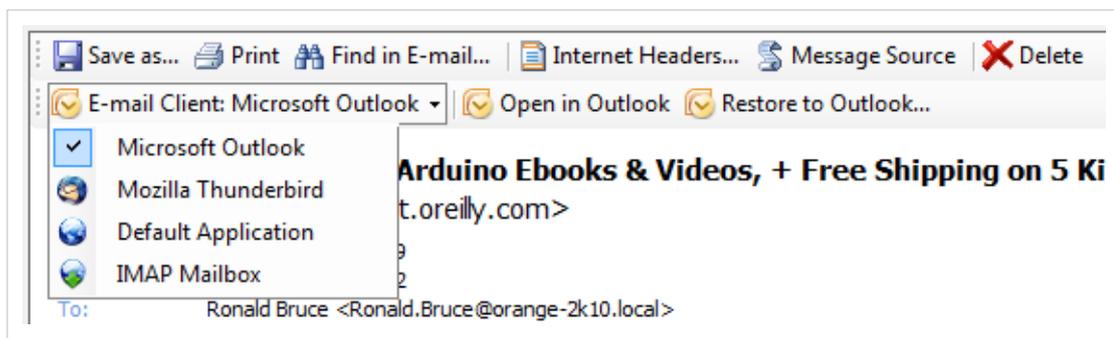
Click on *Message Source* to show the full source of the current message including all MIME-parts.

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.

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 the Microsoft Outlook integration

MailStore users can access their archives using a convenient add-in for Microsoft Outlook. A list of supported Microsoft Outlook version 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 (in Outlook 2010) labeled "MailStore" will be visible in Microsoft Outlook.

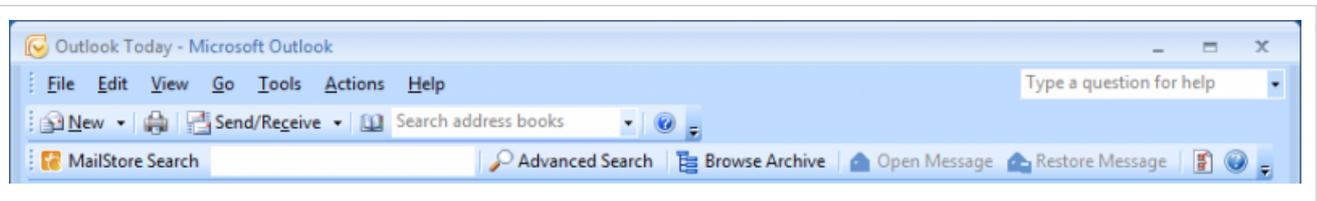


Image: MailStore toolbar in Microsoft Outlook 2007

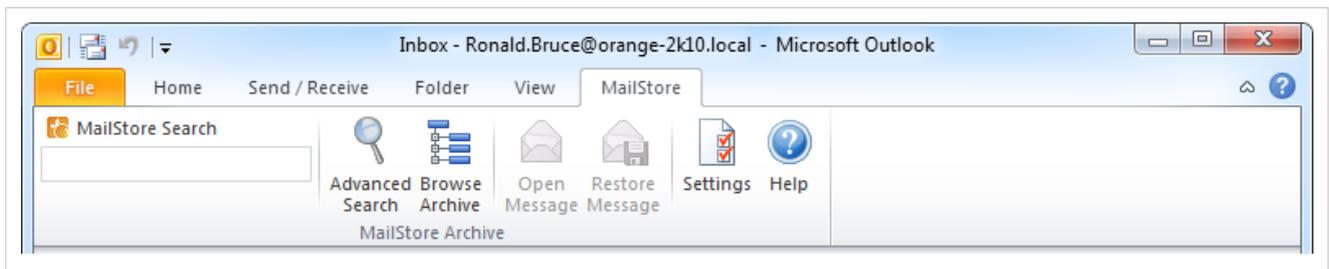
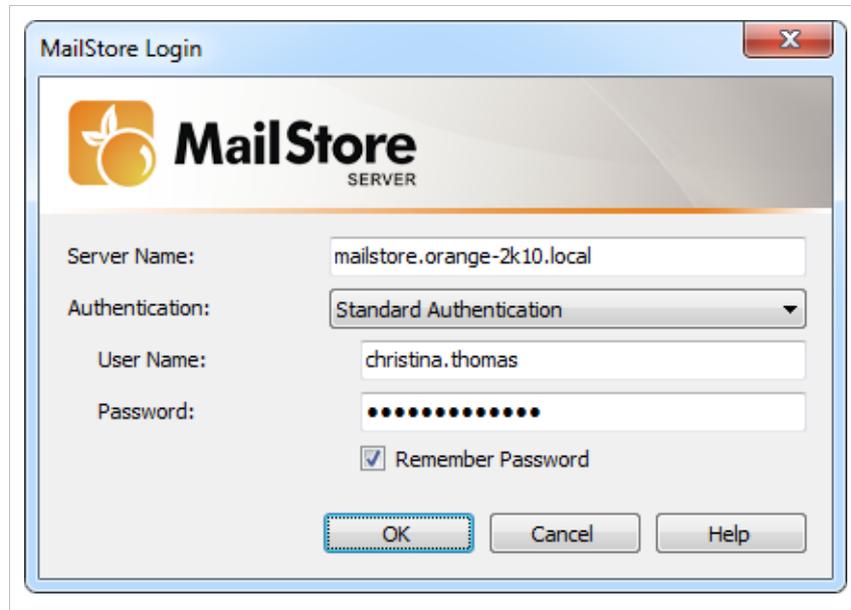


Image: MailStore tab in Microsoft Outlook 2010

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.



The image shows a 'MailStore Login' dialog box. At the top left is the MailStore logo (an orange circle with a white leaf) and the text 'MailStore SERVER'. Below this are four input fields: 'Server Name' with the text 'mailstore.orange-2k10.local', 'Authentication' with a dropdown menu set to 'Standard Authentication', 'User Name' with the text 'christina.thomas', and 'Password' with a masked field of 12 dots. Below the password field is a checked checkbox labeled 'Remember Password'. At the bottom are three buttons: 'OK', 'Cancel', and 'Help'.

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

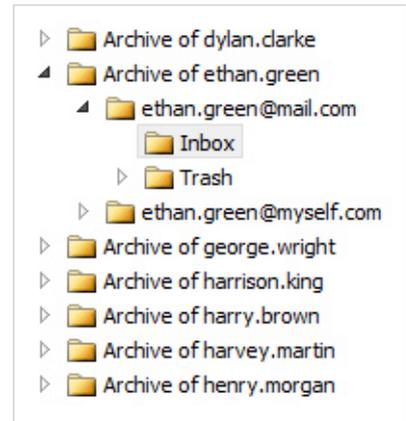
In the MailStore Outlook Add-in, click on *Browse Archive* to display the part of the archive that is visible to you.

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.



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 extended search can be used (see below).

Using Quick Search

The input field is located in 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 beginning with a particular fragment, use the wildcard character (*). For example:

```
auto*
```

will return *auto*, *automatic*, *automobile* etc.

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 Subject
from:john@mailstore.com  only in From
to:michael@mailstore.com only in To
cc:lisa@mailstore.com   only in Cc
```

```
bcc:customers@mailstore.com only in Bcc
```

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*.

Advanced Search

With MailStore's integrated extended 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*-connected, i.e. the search returns only those emails satisfying all criteria. Click on *Search* to start the search.

Search Criteria under "Extended Search"

Enter a keyword or phrase into the text field, and specify where MailStore is to direct 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*).

In the textfield *Search for*, all options described in section Quick Search, such as phrases and wildcards, are available here 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, this is the main folder of the current user. By clicking the button to the right of the text field, folders can also be selected using the folder structure. As administrator, the folders of all users can be searched.
- **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 only within the email's sender field.
- **To/Cc/Bcc** - Any keywords or email addresses entered here are searched for only within the email's recipient fields.
- **Date** - The timeframe 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.

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

Search Criteria under "Extended"

Under *Advanced*, 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 of 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.

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.

3.4 Accessing the Archive via Integrated IMAP Server

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, iPhone or Symbian. 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 are supported.

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 unencrypted or TLS-encrypted connections standard IMAP port 143 is used. For SSL-encrypted connections 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 Android Based Devices](#)
- [Accessing the Archive from Symbian Based Devices](#)

3.5 Accessing the Archive with MailStore Web Access

MailStore Web Access makes the archive accessible through an internet browser. This way, important functions such as browsing and viewing archived emails can be made available under any system and without having to install additional software. An installation of MailStore Client on the user computers is not required. A manual specifically for the iPhone/iPod touch version is available in chapter Accessing the Archive with iPhone and iPod touch.

Requirements for Using MailStore Web Access

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

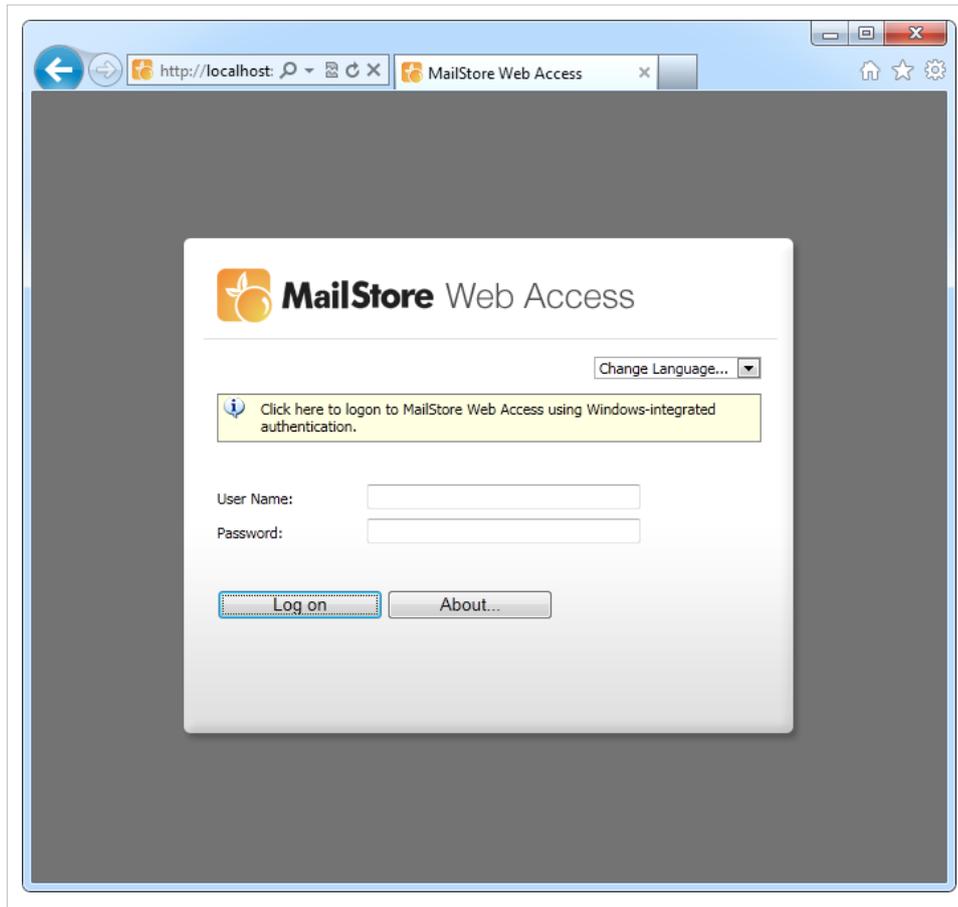
In order to use the *Restore to Mailbox* feature, a MailStore administrator needs to configure the SMTP settings under *Administrative Tools > Miscellaneous > SMTP Settings* first.

Accessing MailStore Web Access

Unless MailStore Server was configured differently, users can use the following internet addresses to access MailStore Web Access:

```
http://<servername>:8461  
https://<servername>:8462
```

Please replace <servername> with the actual name of the server on which MailStore Server is installed.



To login to MailStore Web Access, fill out the *User Name* and *Password* fields and click *Log on*. Please note, that the username must match the MailStore username of the appropriate user.

Notice: If you are using Active Directory integration with MailStore Server, the Microsoft Internet Explorer may be able to authenticate users via Single-Sign-On (Login without username and password).

Search by Archive Folder

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.

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 extended search can be used (see below).

Using Quick Search

The input field is located in the upper part of MailStore Web Access. 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 beginning with a particular fragment, use the wildcard character (*). For example:

```
auto*
```

will return *auto*, *automatic*, *automobile* etc.

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 Subject
from:john@mailstore.com only in From
to:michael@mailstore.com only in To
cc:lisa@mailstore.com  only in Cc
bcc:customers@mailstore.com only in Bcc
```

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*.

Advanced Search

With MailStore's integrated extended 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 upper part of the MailStore Web Access, click on *Advanced Search* and enter the search parameters. The criteria are *AND*-connected, i.e. the search returns only those emails satisfying all criteria. Click on *Search* to start the search.

Search E-mail

Extended Search

Search for:

Subject Sender/Recipient
 Message Body Attachment File Names
 Attachment Contents

General

Folder: ...

Include subfolders

From:

To/Cc/Bcc:

Date:

Extended

Messages: with attachments without attachments

Size:

Priority:

Search Criteria under "Extended Search"

Enter a keyword or phrase into the text field, and specify where MailStore is to direct 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*).

In the textfield *Search for*, all options described in section Quick Search, such as phrases and wildcards, are available here 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, this is the main folder of the current user. By clicking the button to the right of the text field, folders can also be selected using the folder structure. As administrator, the folders of all users can be searched.
- **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 only within the email's sender field.
- **To/Cc/Bcc** - Any keywords or email addresses entered here are searched for only within the email's recipient fields.
- **Date** - The timeframe 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.

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

Search Criteria under "Extended"

Under *Advanced*, 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 of 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.

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.

Opening Email in Email Application

In the toolbar above the email preview, two buttons are available: *Open in Microsoft Outlook (MSG)* and *Open in Email Client (EML)*. These may be used for instance to answer or forward archived emails. Additionally styles and graphics of HTML emails can be displayed this way.

Restoring Email

In the toolbar above the email preview you can find the function *Restore to Mailbox*. By using that function, you can send the currently displayed message to an arbitrary email address in order to restore the message from the archive. Before you can use that function, preparations have to be done by a MailStore administrator. Please see MailStore Server Service Configuration for more information.

Printing the Displayed Email

In the toolbar above the email preview you can find the function *Print*. By using that function, you can print the displayed message including the message headers.

Internet Headers

In the toolbar above the email preview click on *Internet Headers...* to display the internet headers of the current message as well as all MIME parts.

Changing Regional Settings

By default the MailStore Web Access uses the same regional settings as your web browser. The regional settings can also be set manually in the MailStore Web Access settings dialog.

3.6 Accessing the Archive with iPhone and iPod touch

In addition to the MailStore Client software and MailStore Web Access, MailStore Server also provides access to the archive using an iPhone or iPod touch (software version 2.0 or later). In this chapter, learn how to:

- Set up MailStore on an iPhone or iPod touch and
- Access the archived emails using an iPhone or iPod touch.

Administrators, please note: MailStore for iPhone is designed as an iPhone web application. The URLs are the same that are used with MailStore Web Access. For this reason, MailStore Web Access must be activated in order to use the iPhone functionality. To learn how to configure MailStore Web Access, please refer to the corresponding chapter.



Setup

To set up MailStore on an iPhone or iPod touch, please proceed as follows:

- Start Safari.
- Enter the internet address of MailStore Web Access. With the standard installation, it has the following format:

```
http://servername:8461
```

- The MailStore login screen appears (see graphic).
- On the Safari command bar, tap the "+" key.
- Tap on Add to Home Screen.



- A prompt appears. Tap on Add.
- On the iPhone home screen an additional symbol MailStore appears. It can now be used to access the MailStore archive.

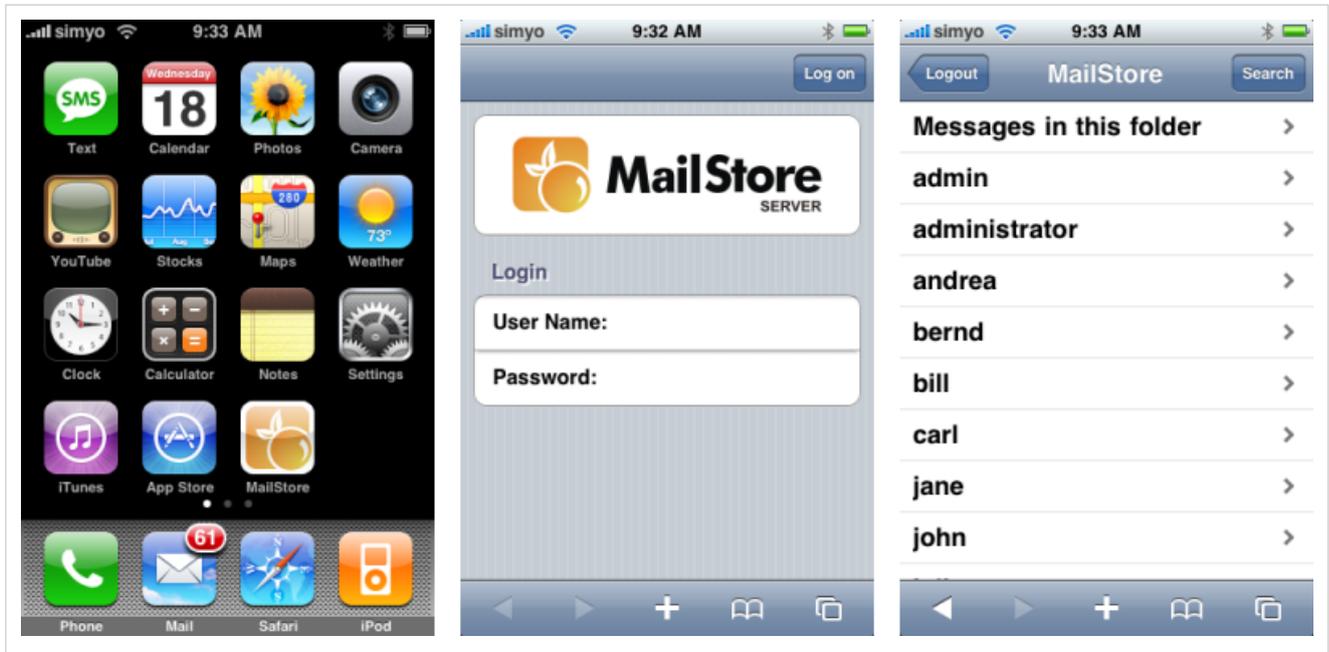


Using MailStore iPhone Client

Start and Login

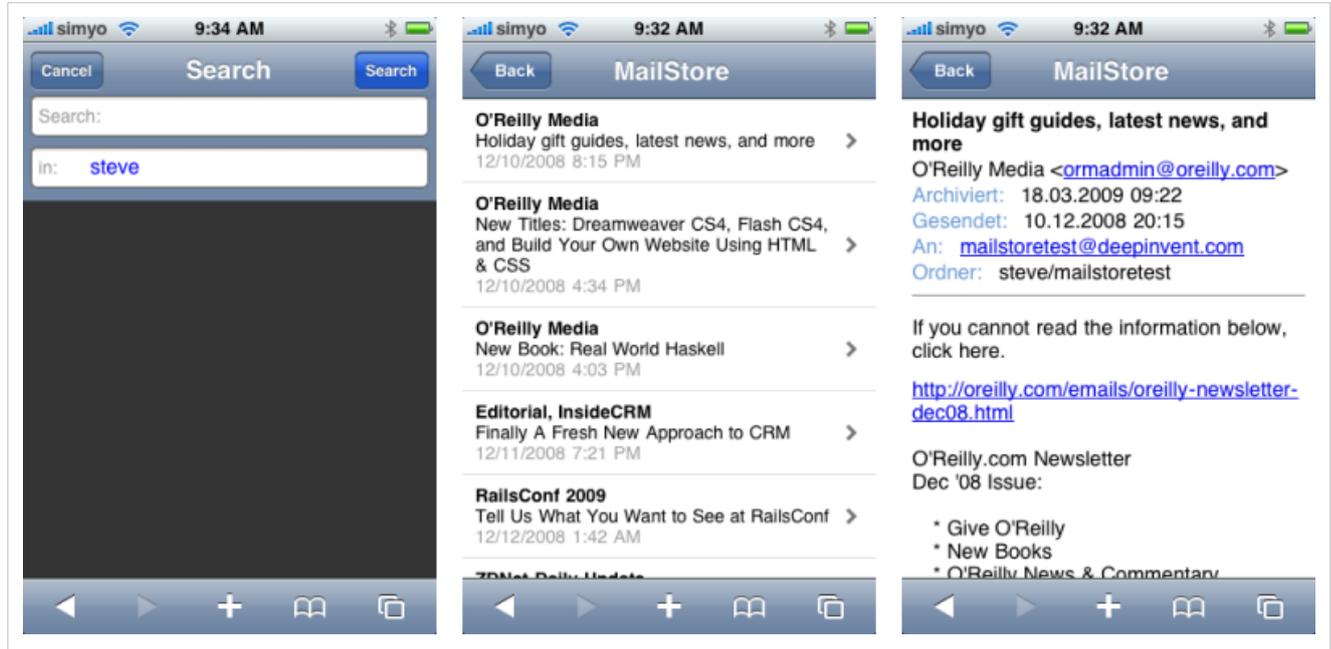
- Start the iPhone client using the MailStore symbol on the iPhone home screen.
- Enter user name and password.
- Tap on Log on.

Please note: For security reasons, a login using the combination admin / admin is not allowed. Please change the password before logging in as user admin.



Search by Folder Structure

- After login, a list of all accessible user archives appears.
- To open a user archive or folder, tap on it.
- To return to the previous screen, tap on the Back button in the upper left corner.
- To view the emails in a folder, tap on Messages in this folder.
- To view an email, simply tap on it.



Full-Text Search

- To search for a specific keyword, first go to the folder which is to be searched (subfolders are included in the search).
- Tap on Search.
- Enter the keyword and tap on Search again.
- The results are displayed.
- To view an email, simply tap on it.

4

Chapter

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.
- **IMAP mailbox** - A folder named *MailStore Export* is created in an IMAP mailbox into which emails are copied.
- **Email address using SMTP**- Emails are forwarded to a specified email address using SMTP, the standard protocol for sending emails.

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).
- **Outlook PST File** - A folder named *MailStore Export* is created in a Microsoft Outlook PST file into which emails are copied.
- **CD/DVD** - Either EML or MSG files (one per email) are burned to CD or DVD. MailStore can also distribute the backup among several storage media; CDs and DVDs can be used interchangeably. Rewritable disks (CD-RW or DVD-/+RW) can be used as well.

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

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.

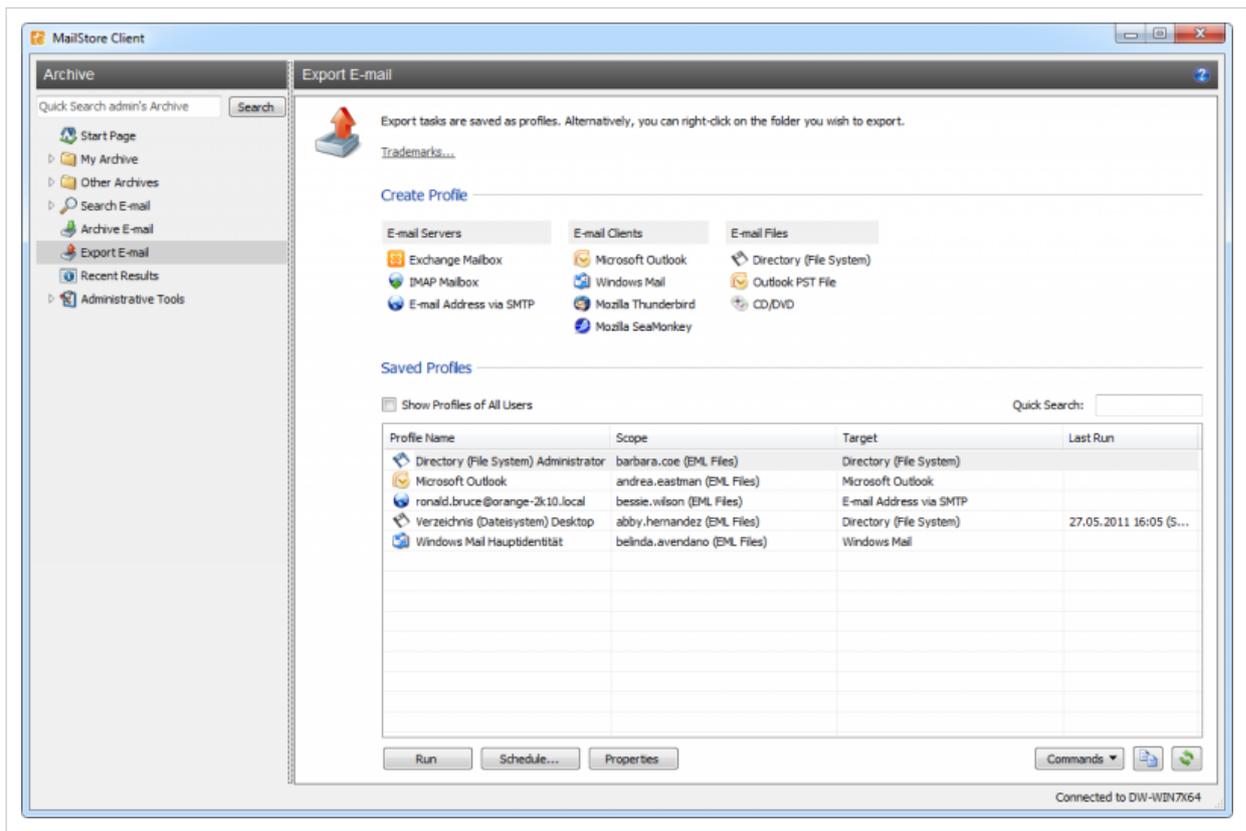
Such an exporting profile could contain the following information:

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

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*.



- 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.

Just like archiving profiles, already existing export profiles can be executed, edited or deleted at any time. Additional information is available in chapter Working with Archiving Profiles.

Executing an Export Profile

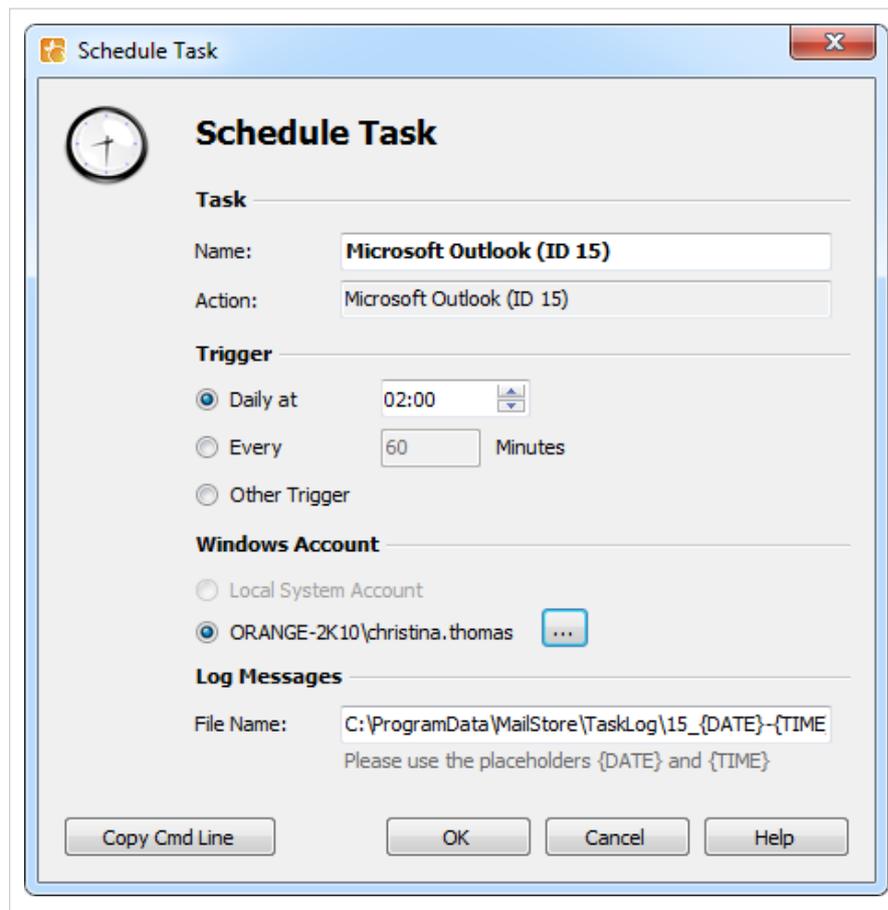
On the start page of MailStore Client, click on *Export Email*. From the list under *Saved Profiles*, select the profile to be executed and click on *Run*. After the export process has finished, a message appears containing information about any errors that may have occurred.

Automating the Export Process

With MailStore, every exporting task (every export profile) can be executed automatically according to specified points in time.

Procedure

- Start MailStore Client on the computer on which the exporting task is to be executed according to a schedule. Please keep in mind that, if a full backup is to be performed, this has to be the computer on which MailStore Server is installed. If the emails of other users are to be exported, log on as administrator.
- On the start page of MailStore Client, click on *Export Email*.
- Right-click on an existing profile and select *Schedule...*



In the next window "Schedule Task", the following settings of the planned task can be specified:

Task - Name: The task name can be chosen freely. By default, the name of the export profile and its internal MailStore ID are used.

Trigger: A time for daily execution (the task is executed once a day) or a time time interval (e.g. every 60 minutes) can be specified.

If the option *Other Trigger* is chosen, the exporting task is created as Windows task but execution times still have to be specified. This has to be done using the Windows task planner and is described in

Delete Task: The selected task is deleted. This does not affect the underlying archiving profile or any of the archived emails.

Open Log Files Directory: The directory containing the protocols for the selected task is opened.

Viewing the Command Line

If desired, the export process 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 above). Click on it to view a command line that can be incorporated into the desired procedure. For example:

```
REM *** Microsoft Outlook (ID 77) ***

"C:\Program Files\deepinvent\MailStore Server\MailStoreCmd.exe"
--h="localhost" --pkv3="16:0e:95:b0:79:d2:e8:e0" -u="admin" --p="admin"
--o="C:\ProgramData\MailStore\TaskLog\77_{DATE}-{TIME}.log"
-c export-execute --id=77 --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 The MailStore Management Shell.

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

--pkv3="..." - Public Key Fingerprint. It ensures 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).

--u="admin" - User name.

--p="admin" - Password.

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

export-execute --id=77 --user="admin" - Execute the archiving profile of user admin with the internal ID 77.

5

Chapter

Administration

5.1 Users, Folders and Settings

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.

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 cannot be moved or renamed. During the archiving process, MailStore adopts the folder structure and the folder names of the source (e.g. Microsoft Outlook).

Deleting Emails

Highlight the emails to be deleted by clicking on the emails while holding down the control (*Ctrl*) key. Holding down the *Ctrl* key and pressing *A* will highlight all emails. Right-click on the highlighted item(s) and select *Delete*. Users are only allowed to delete emails if they have received this privilege from the administrator.

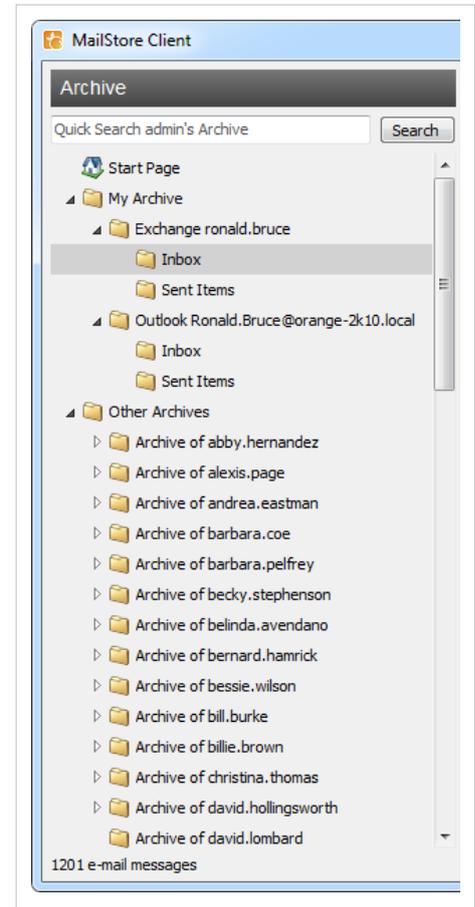
Please keep in mind that allowing users to delete emails is not recommended; assigning such privileges makes it difficult, if not impossible, to comply with legal requirements regarding the storage of emails.

Moving Emails

Highlight the emails to be moved by clicking on the emails while holding down the control (*Ctrl*) key. Holding down the *Ctrl* key and pressing *A* will highlight all emails. Right-click on the highlighted item(s), select *Move To Folder...* and select a destination folder. Emails can only be moved within a user archive.

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 generic LDAP Server
- Synchronizing User Accounts with MDAEMON USERLIST.DAT

Opening User Management

Log on to MailStore Client as administrator. Click on *Administrative Tools* and then on *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 for 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).

Editing an Existing User Account

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

The screenshot shows the 'User Properties' dialog box for the user 'christina.thomas'. The dialog is divided into several sections:

- General Information:**
 - Login Name: christina.thomas
 - Full Name: Christina Thomas
 - Authentication: Directory Services (dropdown), Password... (button)
 - User is an Administrator
- Integration (optional):**
 - LDAP DN String: CN=Christina Thomas,OU=Berlin,DC=orange-2k:
 - E-mail Addresses: christina.thomas@orange-2k10.local, christina.thomas@orange-2k10.local (comma separated)
 - POP3 User Names: (empty field) (comma separated)
- Privileges:**
 - Log on to MailStore Server Change Password
 - Archive E-mail (Unlimited)
 - Export E-mail (Unlimited)
 - Delete E-mail
- Folder Access Table:**

Folder	Access
christina.thomas	Read

Buttons at the bottom: OK, Cancel, Help. Buttons on the right: Add New..., Edit, Delete.

- 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 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

- **Windows User Name:** This information is only needed if single sign-on is to be available to the user. In this case, after logging on to Windows, no additional login is required for starting MailStore Client.
- **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 chapter 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.

Deleting Users

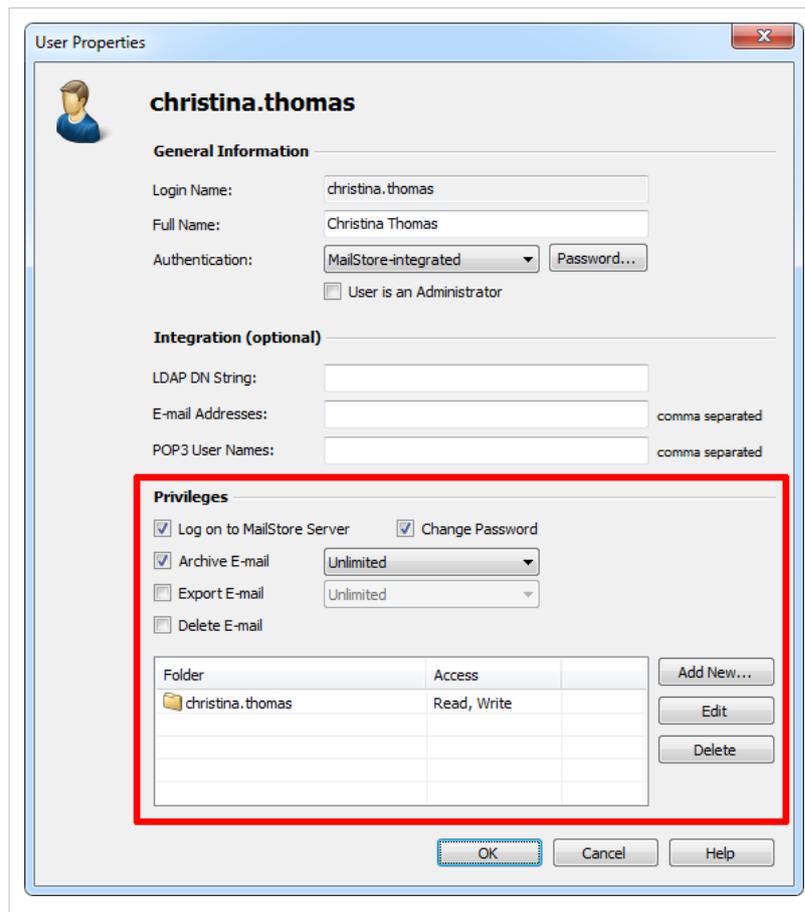
Click on *Administrative Tools > User and Privileges* and then on *Users*. Select the appropriate user from the list and click on *Delete*.

Deleting a user does not delete the emails that were archived for that user. The corresponding user archive, including all emails, is still available in MailStore and can be accessed by the administrator.

Deleting a user releases the corresponding user license (despite the remaining user archive). 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 Privileges* and then on *Users*. Select the appropriate user from the list and click on *Properties*.



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 in MailStore's *Administrative Tools* under *Change Password*. 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 archive 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 not create new profiles nor modify existing ones.

Manage profiles only - Users with this privilege can only modify already existing archiving profiles but not create new profiles or run existing ones.

Additional information on this can be 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 not create new profiles nor modify existing ones.

Manage profiles only - Users with this privilege can only modify already existing export profiles but not create new profiles or run existing ones.

Additional information on this can be 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:

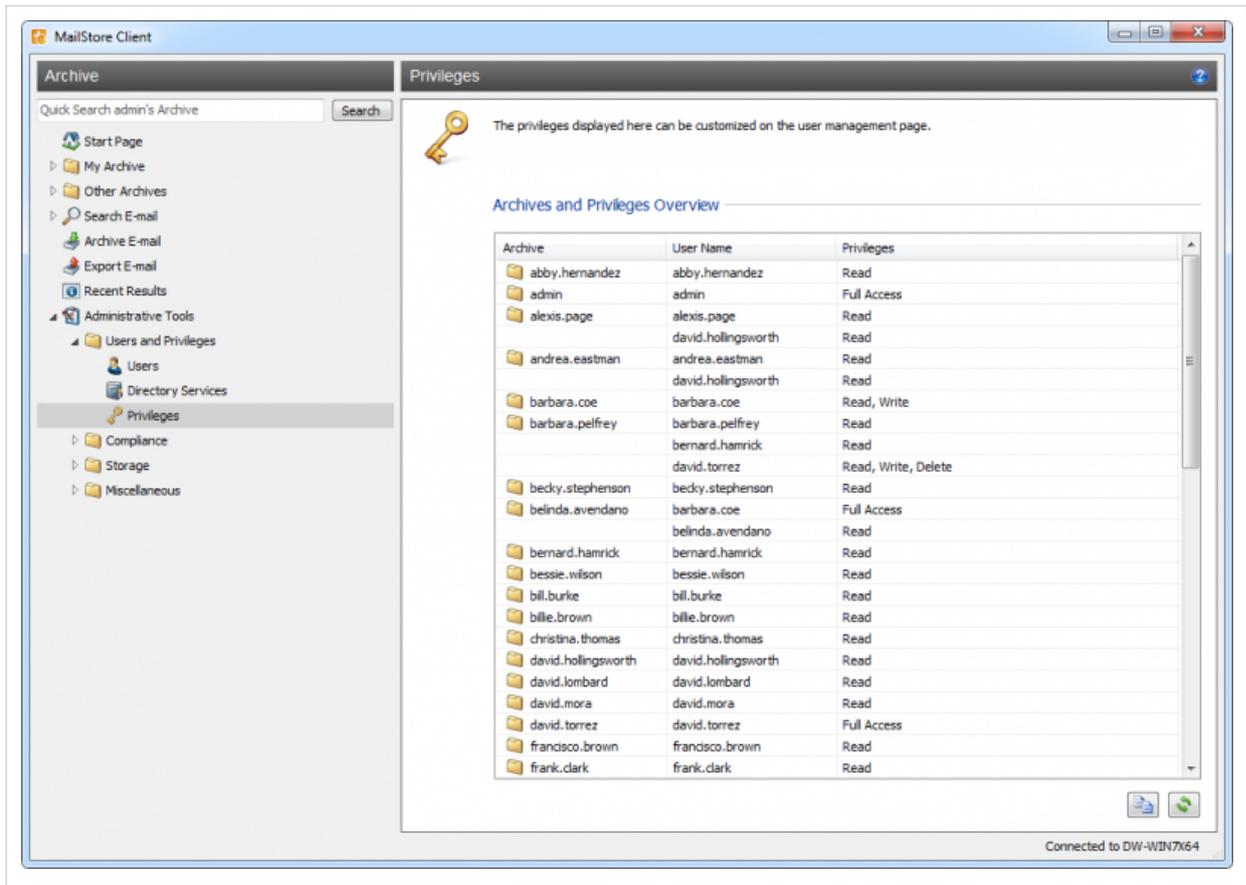
- Full Access
- Read
- Write
- Delete

From the users' perspective, the folders they have access to appear as entries in the folder structure of MailStore Client. Please refer to chapter 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 Privileges* and then on *Privileges*.



The screenshot shows the MailStore Client interface. On the left is a navigation pane with 'Administrative Tools > Users and Privileges > Privileges' selected. The main window is titled 'Privileges' and contains a table titled 'Archives and Privileges Overview'.

Archive	User Name	Privileges
abby.hernandez	abby.hernandez	Read
admin	admin	Full Access
alexis.page	alexis.page	Read
andrea.eastman	andrea.eastman	Read
barbara.coe	barbara.coe	Read, Write
barbara.pelfrey	barbara.pelfrey	Read
bernard.hamrick	bernard.hamrick	Read
becky.stephenson	becky.stephenson	Read, Write, Delete
belinda.avendano	barbara.coe	Full Access
belinda.avendano	belinda.avendano	Read
bernard.hamrick	bernard.hamrick	Read
bessie.wilson	bessie.wilson	Read
bill.burke	bill.burke	Read
billie.brown	billie.brown	Read
christina.thomas	christina.thomas	Read
david.hollingsworth	david.hollingsworth	Read
david.lombard	david.lombard	Read
david.mora	david.mora	Read
david.torrez	david.torrez	Full Access
francisco.brown	francisco.brown	Read
frank.clark	frank.clark	Read

At the bottom right of the window, it says 'Connected to DW-WIN7X64'.

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 Active Directory Integration

Synchronizing User Accounts with Active Directory

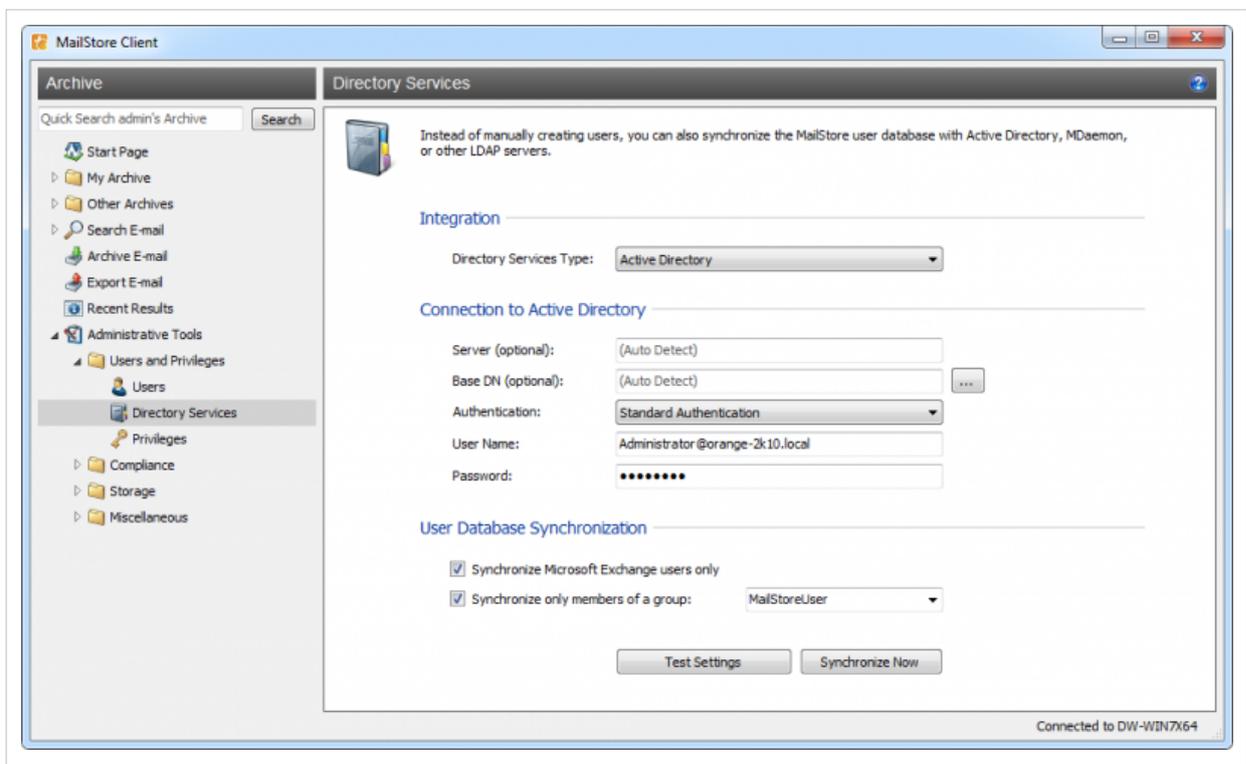
In addition to adding users manually as described in chapter User Management, MailStore can synchronize its internal user database with the Active Directory of your company.

During synchronization, user information and email addresses are gathered from Active Directory and recorded in MailStore; no changes are made to Active Directory.

Please note: MailStore Server does neither support subdomains nor domain trusts.

Accessing Active Directory Integration

Log on to MailStore Client as administrator. Click on *Administrative Tools > Users and Privileges* and then on *Directory Services*. In the *Integration* area change *Directory Service Type* to *Active Directory*.



Specifying Connection Settings

Before the synchronization can be started, MailStore requires information on how to connect to the Active Directory server.

- **Server (optional)**
Name or IP address of an Active Directory server. If the MailStore Server machine is member of the Active Directory, this setting is detected automatically.
- **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 the Active Directory is available. If the MailStore Server machine is 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* - As long as the MailStore Server is not installed on an Active Directory server, using standard authentication is required. Fill out the *User Name* and *Password* fields when using standard authentication; enter the user name in UPN notation, e.g. *Administrator@company.local*
- *Windows Authentication* - Is the MailStore Server installed on an Active Directory server, the MailStore Server service already has enough privileges to authenticate itself to the Active Directory using Windows authentication.

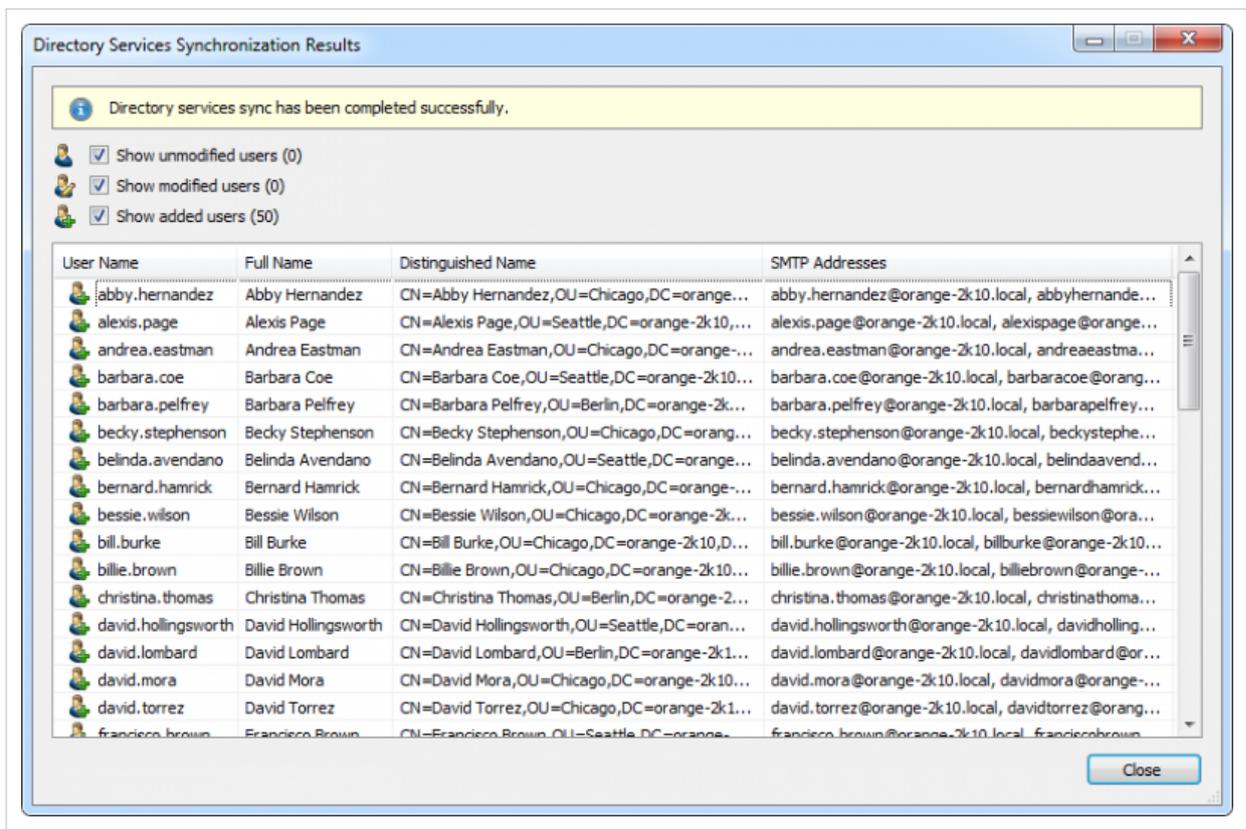
Executing the Synchronization

Under *User Database Synchronization*, after the connection settings have been specified (as described above), the MailStore user list can be synchronized with the Active Directory user list.

The following options are available:

- **Synchronize Microsoft Exchange users only**
Clear this checkbox only if all Active Directory users are to be created in MailStore as well.
- **Synchronize only members of a group**
Check this Checkbox and select a group name, if you want only members of that Active Directory group to be synchronized with you Mailstore Server.

Click on *Test Settings* to see what would happen during actual synchronization. To start, click on *Synchronize Now*.



Login with Windows Credentials

By default, each MailStore user has a password exclusively for MailStore which the administrator can specify during creation of a new user account. In MailStore Client's *Administrative Tools*, the respective user can later change his or her password.

Alternatively, if Active Directory is available, MailStore can be configured to allow users to log on to MailStore Server through MailStore Client using their Active Directory password.

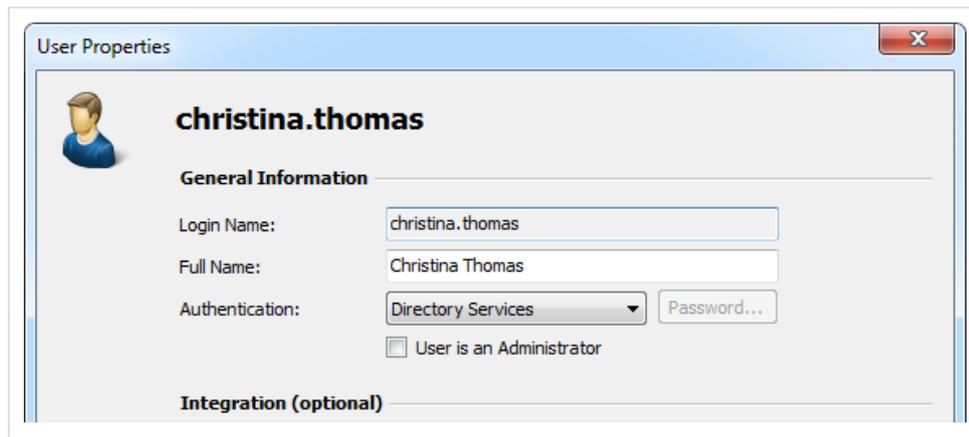
Procedure for Users Created During Synchronization with Active Directory

If the MailStore users were created using Active Directory Synchronization, as described in the previous section, no further action is required. In this case, MailStore has already specified all necessary settings automatically.

Procedure for Manually Created Users

If MailStore users who were created manually are to be able to log on using their Active Directory password, please proceed as follows:

- Configure the Active Directory Integration as described in chapter Synchronizing User Accounts with Active Directory.
- Verify that the names of the MailStore users match those of the corresponding Active Directory users.
- In the User Properties window under *Authentication*, select *Directory Services*.



MailStore Client Single Sign-On

For information on using the single sign-on functionality in Active Directory environments, please refer to the article MailStore Client Deployment.

5.3 Generic LDAP Integration

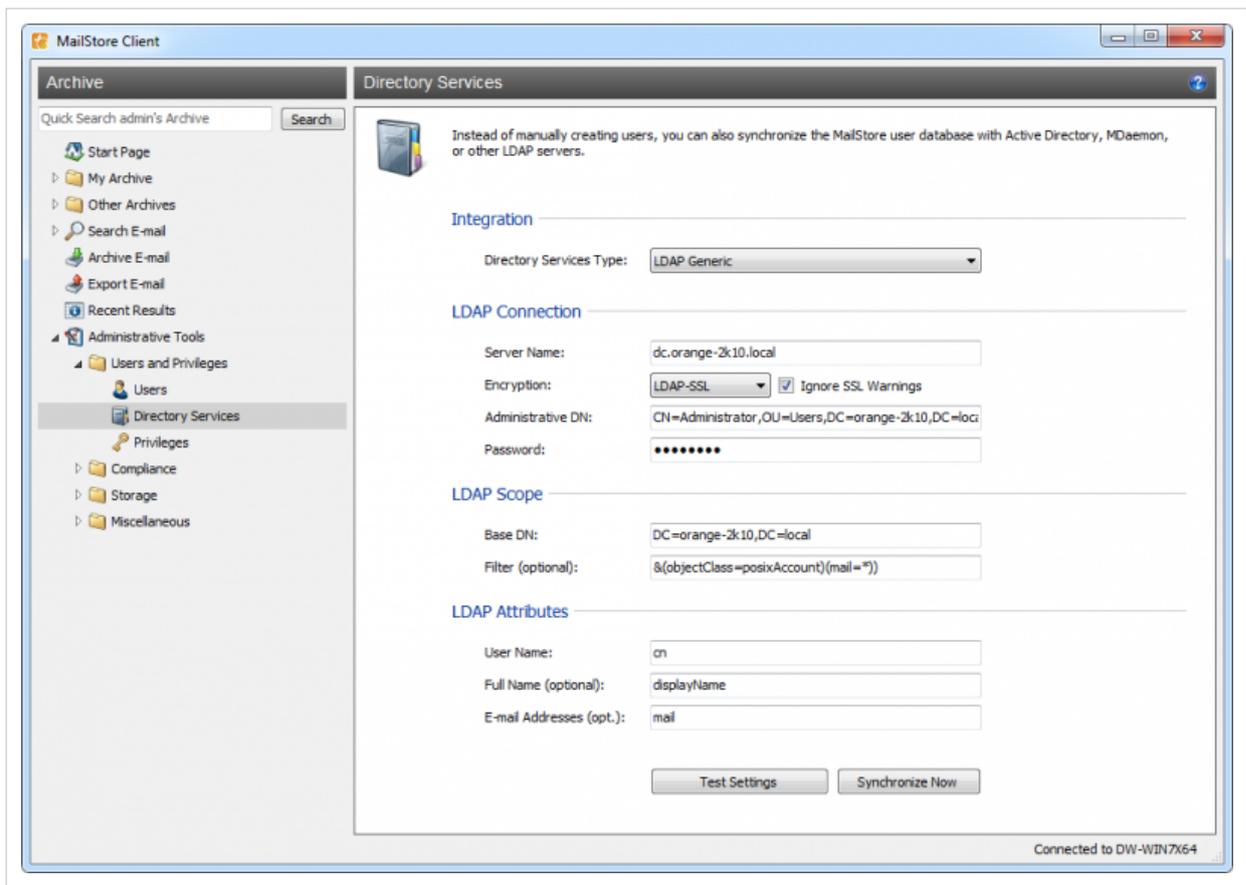
Synchronizing User Accounts with a Generic LDAP Directory Service

In addition to adding users manually (which is described in chapter User Management), MailStore can synchronize its internal user database with your company's generic LDAP directory service (e.g. OpenLDAP, Novell eDirectory).

During synchronization, user data and email addresses are gathered from the LDAP directory and entered into MailStore. MailStore makes no changes to the LDAP directory. The scope of the synchronization can be limited through filters.

Opening the Directory Service Integration

Using MailStore Client, log on as MailStore administrator. Click on *Administrative Tools > Users and Privileges* and then on *Directory Services*. Under *Integration*, change the directory service type to *LDAP Generic*.



Specifying Connection Settings

Before the synchronization feature can be used, MailStore needs information on how to reach the LDAP directory service.

LDAP Connection

Specify the connection settings for the LDAP directory service server:

- **Server Name** - Name or IP address of the LDAP directory service server.
- **Encryption** - Type of encryption which is to be used when connecting to the LDAP directory service server.
- **Administrative DN** - Distinguished Name (DN) of an administrative LDAP user.
- **Password** - Password of the LDAP user listed under *Administrative DN*.

LDAP Scope

Specify the scope of the synchronization:

- **Base-DN** - LDAP base DN, e.g. *dc=myfirm,dc=local*
- **Filter** - RFC 4515 ^[1] compliant LDAP filter, e.g. *&((objectclass=posixAccount)(mail=*))*

LDAP-Attributes

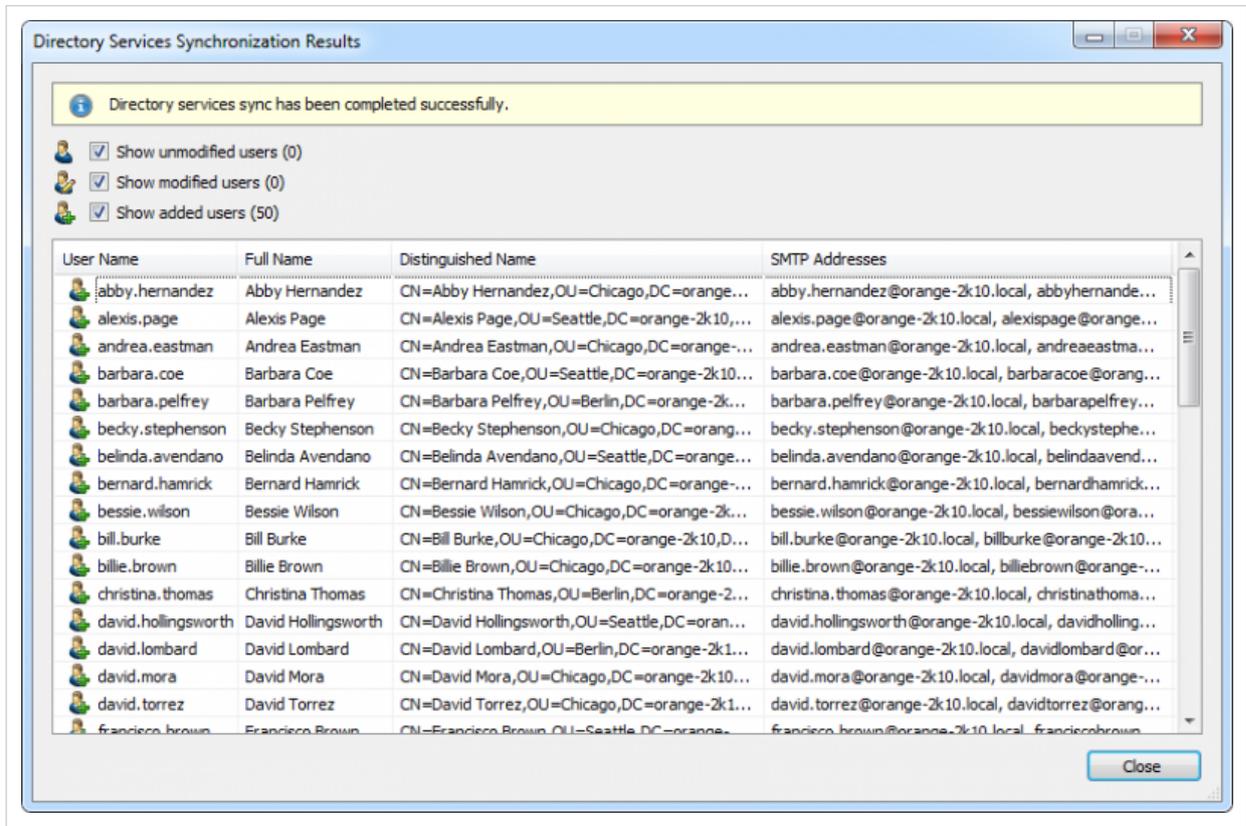
Specify which LDAP user attributes correspond to the MailStore user attributes:

- **User Name** - LDAP attribute for user name, e.g. *cn* or *uid*.
- **Full Name (opt.)** - Optional: LDAP attribute for the display name, e.g. *displayName*.
- **Email addresses** - Optional: LDAP attribute for the SMTP address, e.g. *mail*. Multiple addresses can be specified, separated by comma.

Executing the Synchronization

Once the connection settings have been specified (as described above), the MailStore user list can be synchronized with the LDAP user list.

Click on *Test Settings* to see a preview of what would happen when clicking *Synchronize Now*. Click on *Synchronize Now* to start.



Login with LDAP Access Data

By default, each user created in MailStore has his or her own password specifically for MailStore. The MailStore administrator can specify the password during setup of the user account. Users can later change their passwords in MailStore Client's *Administrative Tools*.

If your company has a generic LDAP server (e.g. OpenLDAP, Novell eDirectory), MailStore can also be configured to allow users to log on to MailStore Server via MailStore Client using their LDAP passwords.

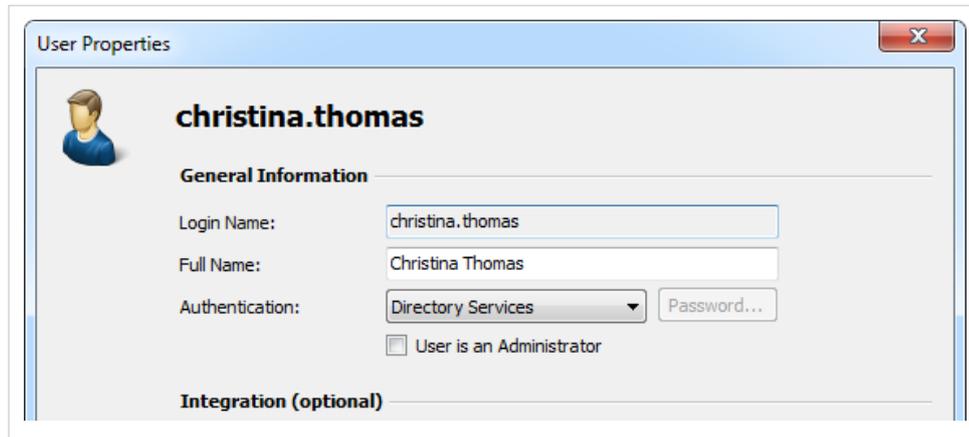
Procedure for users who were added via synchronization using the generic LDAP directory service

If MailStore users were added using LDAP directory service synchronization as described in the previous section, no actions need to be taken. In this case, MailStore has already performed all necessary settings automatically.

Procedure for users who were added manually

If MailStore users were added manually and if these users are to be able to log on using their LDAP passwords, please proceed as follows:

- Configure the generic LDAP directory service integration as described in chapter Synchronizing User Accounts with a Generic LDAP Directory Service.
- Make sure that the MailStore users have the same name as the corresponding users in the LDAP directory service.
- Under *Authentication* in the user properties menu, select *Directory Services*.



References

- [1] <http://tools.ietf.org/html/rfc4515>

5.4 MDAemon Integration

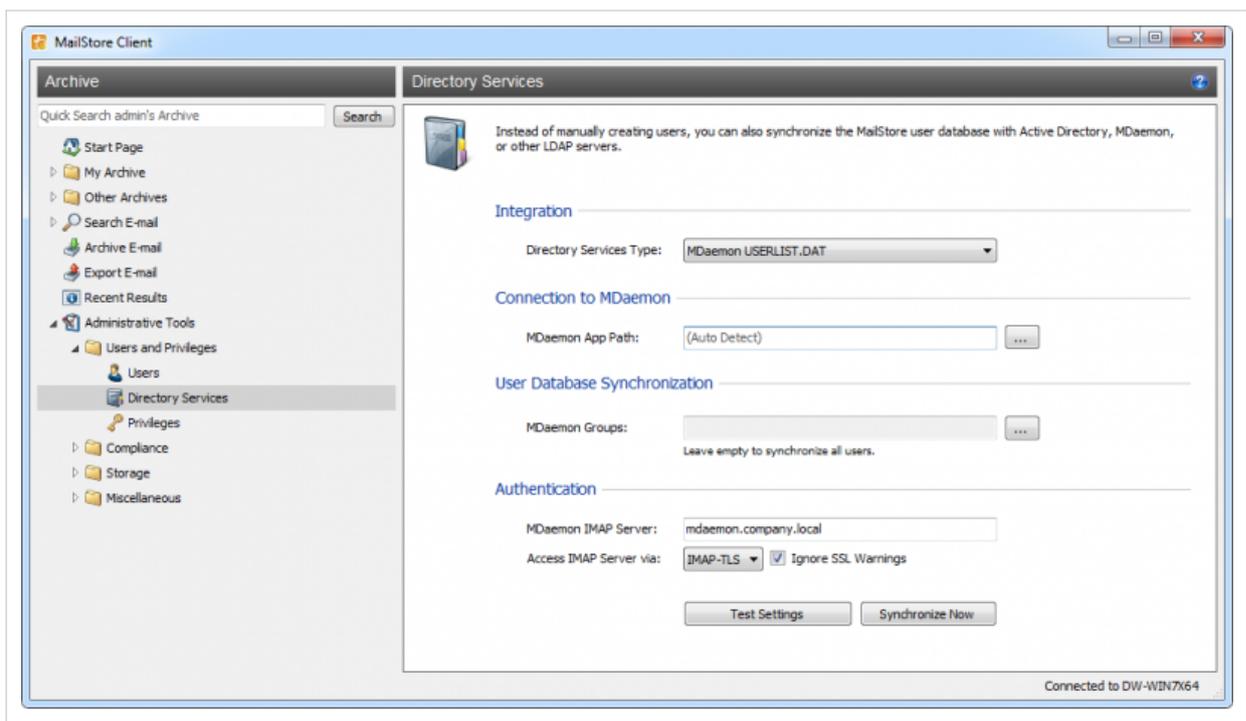
Synchronizing User Accounts with an MDAemon User Database

In addition to adding users manually (which is described in chapter User Management), MailStore can synchronize its internal user database with an MDAemon user database on the basis of the USERLIST.DAT of your MDAemon server.

During synchronization, user data and email addresses are gathered from the MDAemon user database and entered into MailStore. MailStore makes no changes to the MDAemon user database. Synchronization can be limited to individual or multiple groups.

Opening the Directory Service Integration

- Using MailStore Client, log on as MailStore administrator.
- Click on *Administrative Tools > Users and Privileges* and then on *Directory Services*.
- Under *Integration*, change the *Directory Service Type* to *MDaemon USERLIST.DAT*.



Specifying Connection Settings

Before the synchronization feature can be used, MailStore needs information on how to reach the MDAemon App Directory.

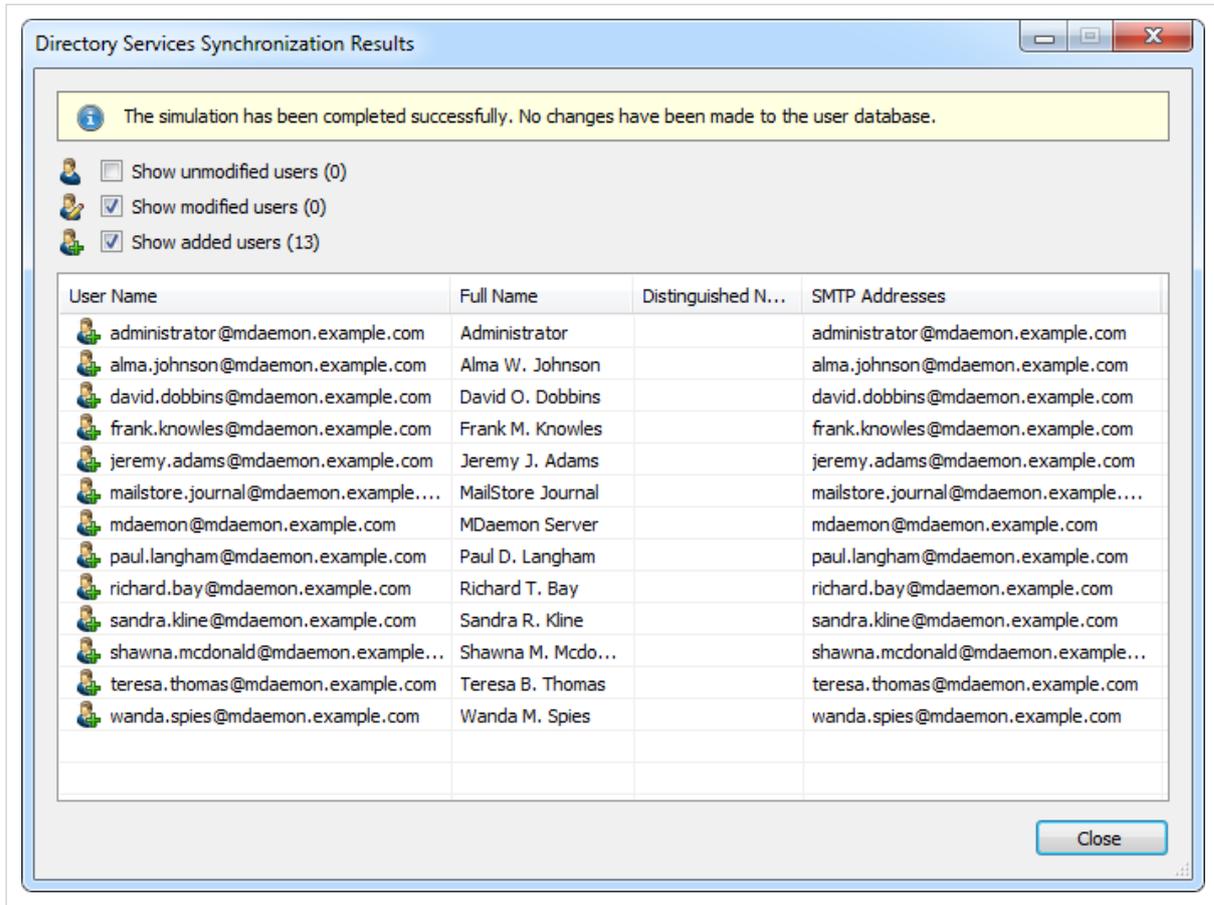
- **MDaemon App Directory**
Enter the path to the app directory of your MDAemon installation. The app directory contains the files *Userlist.dat* and *Groups.dat*. If MailStore Server is installed on the same computer as the MDAemon Server, the MDAemon app directory is recognized automatically.
If MailStore Server is not installed on the same machine, share the app directory of the MDAemon server with the MailStore Server computer and enter the UNC path for sharing the app directory into the field *MDaemon App Directory* (e.g. \\MDAEMON\MDApp).

Executing the Synchronization

Once the connection settings have been specified (as described above), the MailStore user list can be synchronized with the MDAemon user database.

The synchronization can be limited to one or more MDAemon groups. To do so, click on the button next to the *MDaemon Groups* field and check the checkbox of each group that is to be synchronized. If no group is selected, all users are synchronized.

Click on *Test Settings* to see a preview of what would happen when clicking *Synchronize Now*. Click on *Synchronize Now* to start.



Login with MDAemon Access Data

By default, each user created in MailStore has his or her own password specifically for MailStore. The MailStore administrator can specify the password during setup of the user account. Users can later change their passwords in MailStore Client's *Administrative Tools*.

Alternatively, MailStore can be configured to allow users to log on to MailStore Server using their MDAemon passwords.

Specifying the Authentication Settings

Before users can log on to MailStore Server using their MDAemon access data, the following settings need to be specified under *Authentication*:

- **MDaemon IMAP Server** - Enter the IP address or the host name of the MDAemon server against which authentication is to be executed.
- **IMAP Server Access** - Specify if the connection to the IMAP server is to be unencrypted or IMAP-TLS/IMAP-SSL encrypted.

Only when using IMAP-TLS and IMAP-SSL: Select the option to *Ignore SSL security warnings* if an unofficial certificate is used on the email server. Otherwise, authentication will fail permanently.

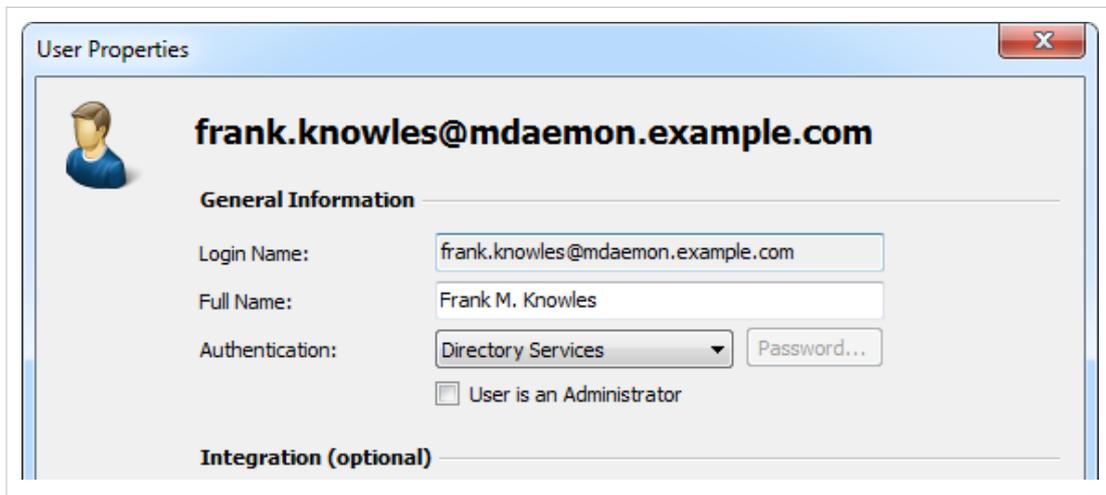
Procedure for users who were added via synchronization with the MDAemon user database

If MailStore users were added using MDAemon directory service synchronization as described in the previous section, no further actions need to be taken. In this case, MailStore has already performed all necessary settings.

Procedure for users added manually

If MailStore users were added manually and if these users are to be able to log on using their MDAemon passwords, please proceed as follows:

- Configure the MDAemon integration as described in chapter Synchronizing User Accounts with an MDAemon User Database.
- Make sure that the MailStore users have the same names as the corresponding users in the MDAemon user database.
- In the user properties menu under *Authentication*, select *Directory Services*.



The screenshot shows a window titled "User Properties" with a close button (X) in the top right corner. On the left, there is a user icon. The main content area displays the email address "frank.knowles@mdaemon.example.com" in a large font. Below this, the "General Information" section contains the following fields:

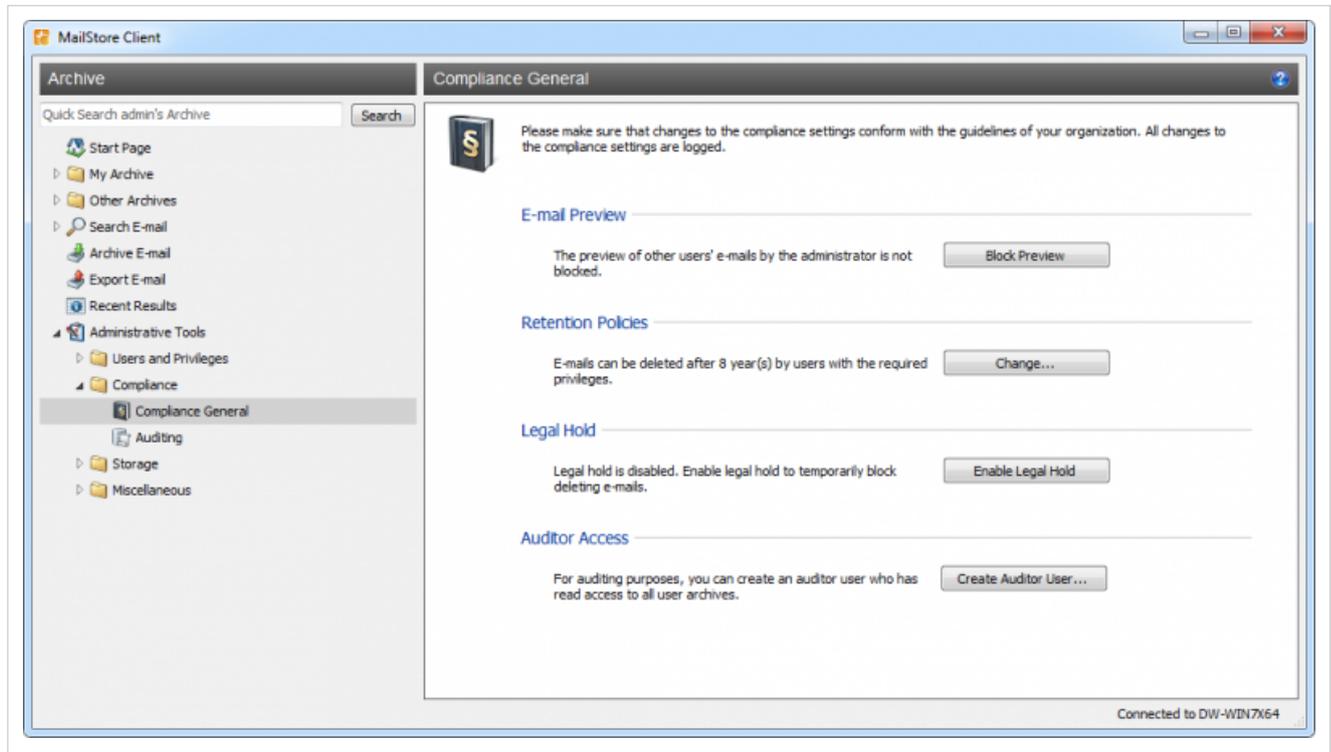
- Login Name: frank.knowles@mdaemon.example.com
- Full Name: Frank M. Knowles
- Authentication: Directory Services (selected in a dropdown menu) with a "Password..." button to its right.
- User is an Administrator

At the bottom, there is a section titled "Integration (optional)" which is currently empty.

5.5 Compliance General

MailStore Server offers several compliance features enabling you to meet operational as well as legal compliance requirements.

Please note: MailStore writes changes to these settings into the Windows event log. Additional information about recording events is available in chapter Auditing.



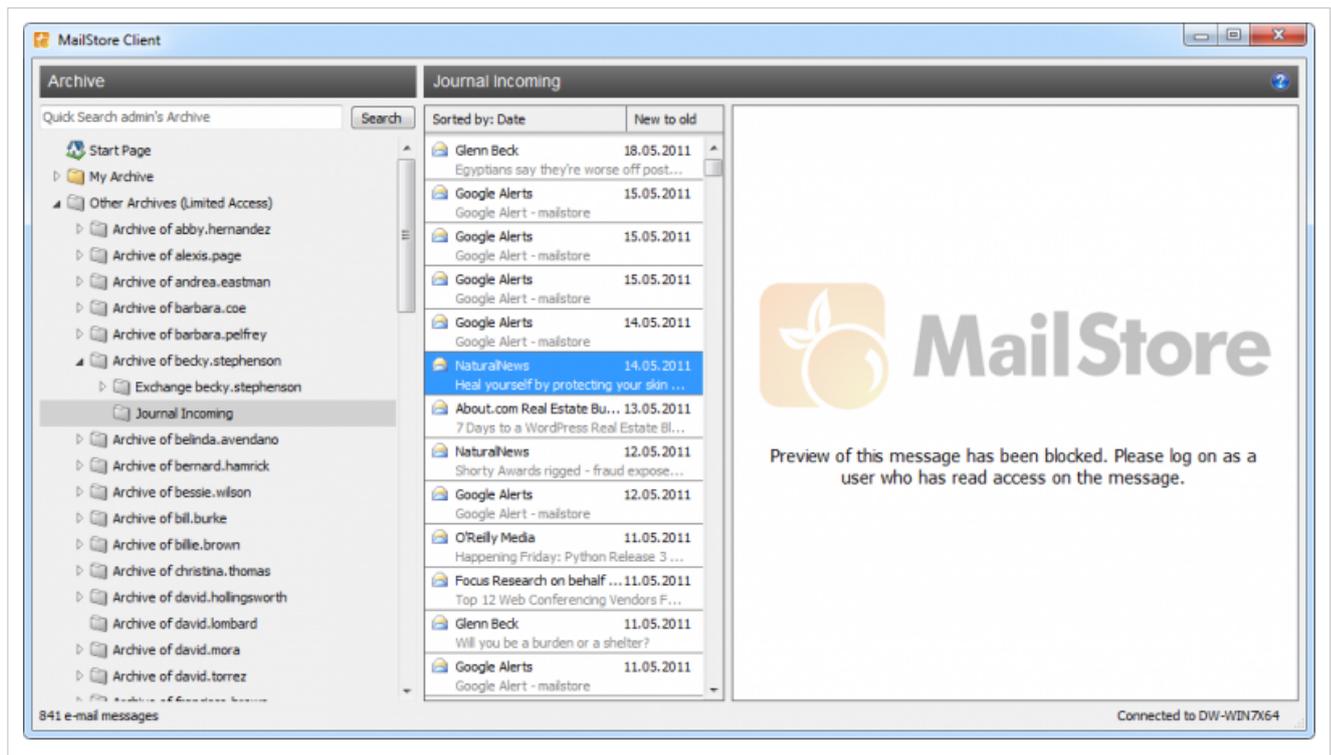
Email Preview

By default, MailStore administrators can access all contents of the archive. This means that the entire contents of other user archives can be viewed as well.

To prevent the administrator from previewing the emails of other users, please proceed as follows:

- Log on as MailStore administrator (admin).
- Click on *Administrative Tools* > *Compliance* and then on *Compliance General*.
- Under *Email Preview*, click on *Block Preview*.

If the preview is blocked, the folder *Other Archives (Limited Access)* and all its subfolders will appear grey. Administrators continue to be able to view the folder structures and their contents, including the header fields sender, recipient, subject and date, but no longer the email contents or any of the file attachments.

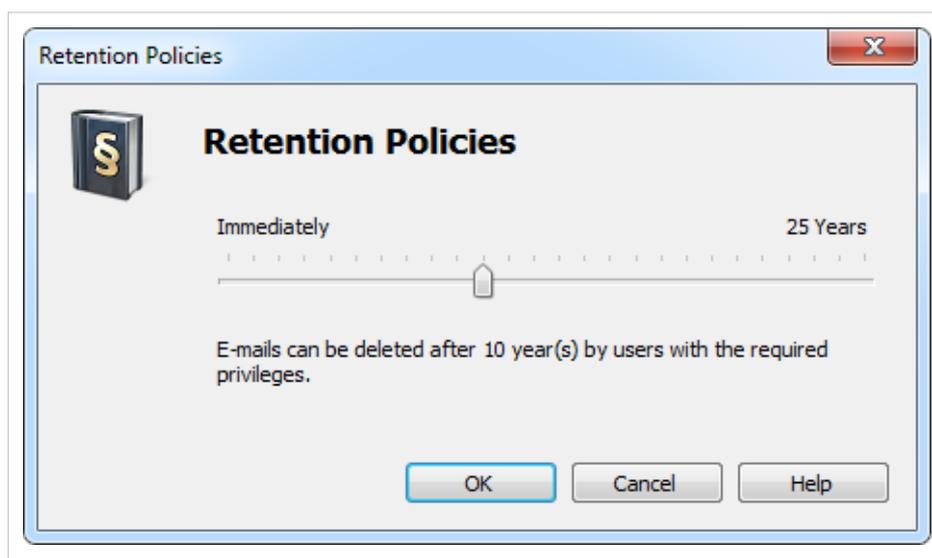


Retention Policies

Various operational or legal provisions regulate the minimum retention periods for emails liable to be archived. By predefining a storage guideline in MailStore you can define the earliest point in time at which emails may be removed from the archive.

To specify the retention policy, please proceed as follows:

- Log on as MailStore administrator (admin).
- Click on *Administrative Tools > Compliance* and then on *Compliance General*.
- Under *Retention Policies*, click on *Change...*
- Using the slide control, set the earliest point in time from which on archived emails may be deleted.



- Click on *OK* to confirm.

Please note that at no time does MailStore remove emails from the archive automatically. Therefore, this setting only applies to users with the *Delete Emails* privilege.

Legal Hold

With the *Legal Hold* feature deleting emails from the archive can be temporarily prohibited. This may become necessary in case of legal disputes to prevent the deletion of emails which may serve as evidence.

To enable or disable *Legal Hold*, please proceed as follows:

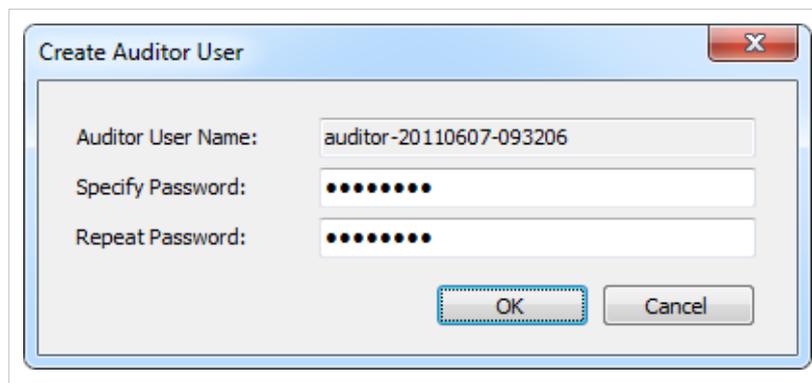
- Log on as MailStore administrator (admin).
- Click on *Administrative Tools > Compliance* and then on *Compliance General*.
- Under *Legal Hold*, click on *Enable Legal Hold/Disable Legal Hold*.

Auditor Access

In case of an audit by a third party (e.g. tax inspector) it may become necessary to grant this party read-access to the entire archive. With the *Auditor Access* feature, a special user can be set up in MailStore who automatically has read-access to all user archives.

To set up an auditor user, please proceed as follows:

- Log on as MailStore administrator (admin).
- Click on *Administrative Tools > Compliance* and then on *Compliance General*.
- Under *Auditor Access*, click on *Create Auditor User...*
- In the *Create Auditor User* window, create a password for the new auditor user. The user name is generated automatically and has the following format based on the time of creation:
auditor-YYYYMMDD-HHMMSS



- Click on *OK* to create the new user.

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.

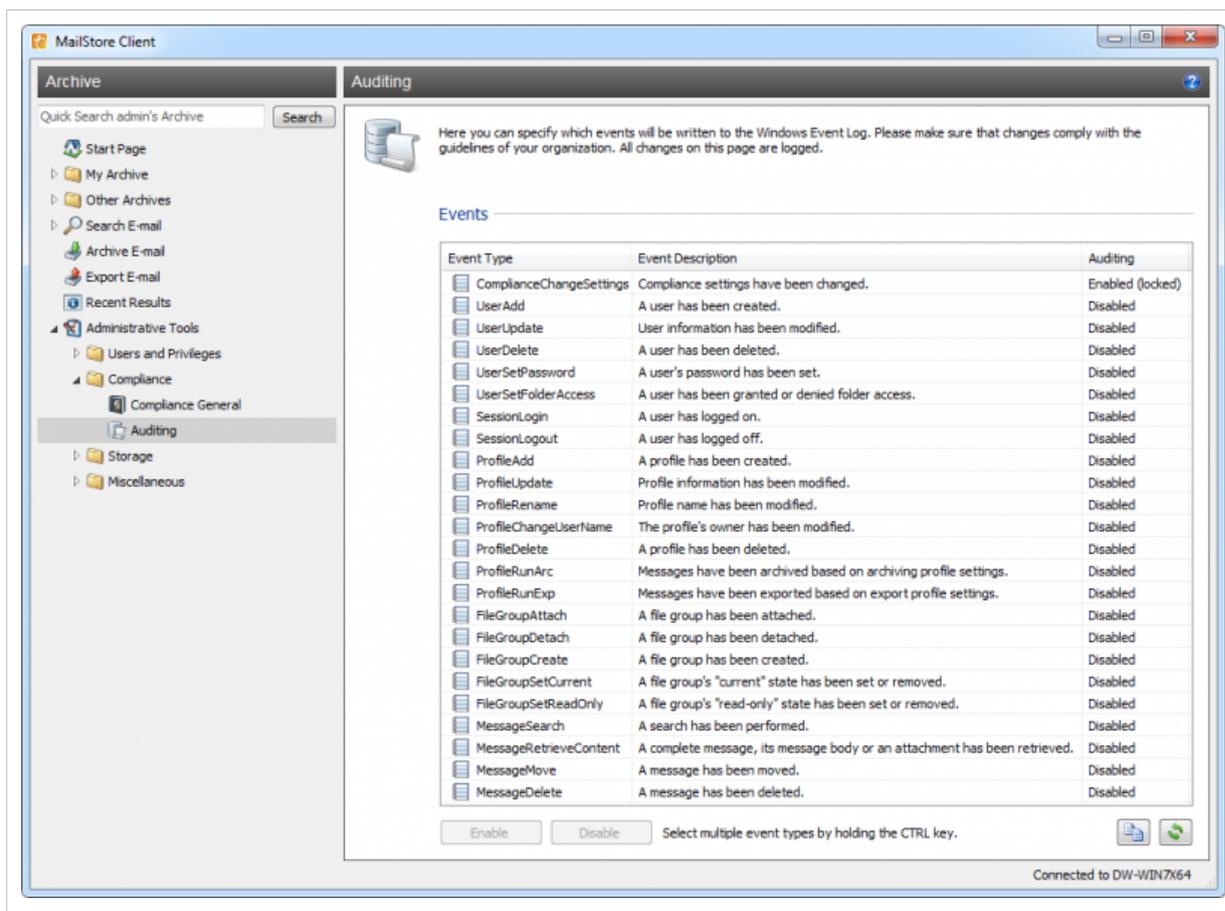
5.6 Auditing

With MailStore Server, selected events can be written into the Windows event log allowing you to track the activities of both administrators and users. This enables a company's compliance officer, for example, to oversee compliance with legal and operational regulations.

Changing the Auditing Settings

To change the auditing settings, please proceed as follows:

- Start MailStore Client as MailStore administrator (admin).
- Click on *Administrative Tools* > *Compliance* and then on *Auditing*.



- From the list, select the event whose auditing status you would like to change.
- Change the auditing status by clicking the *Enable* or *Disable* buttons located beneath the list of events.

Please note: The event *ComplianceChangeSettings*, which protocols changes of the settings under *Compliance General*, cannot be disabled.

Please note that some events may generate a large number of entries in the Windows event log. Only enable such events if you are sure that you need the information.

5.7 Storage Locations

Structure of the MailStore Database

A MailStore database consists of the following:

The Master Database

Every MailStore Server installation has exactly one master database where general information such as users, email folders and settings are stored. Compared with file groups (see below), the master database has a very small storage space requirement.

The master database is included in the setup of MailStore Server and is installed and set up automatically. Through the MailStore Server Service Configuration, the storage location of the master database can be determined and changed, if desired. The master database can be stored on a local drive or on a network location specified by an UNC path as well. For further information please refer to the article Using Network Attached Storage (NAS).

The master database is integrated in MailStore Server (embedded database) and can be run concurrently with other database systems.

File Groups

The actual data - the archived emails - is stored in file groups. During the initial installation of MailStore Server, a first file group is created automatically. To distribute the archive among several storage locations, any number of additional file groups can be added at any time. In addition to allowing for flexible management of the storage space, the creation of new file groups has a positive influence on the performance of the archive.

A file group consists of:

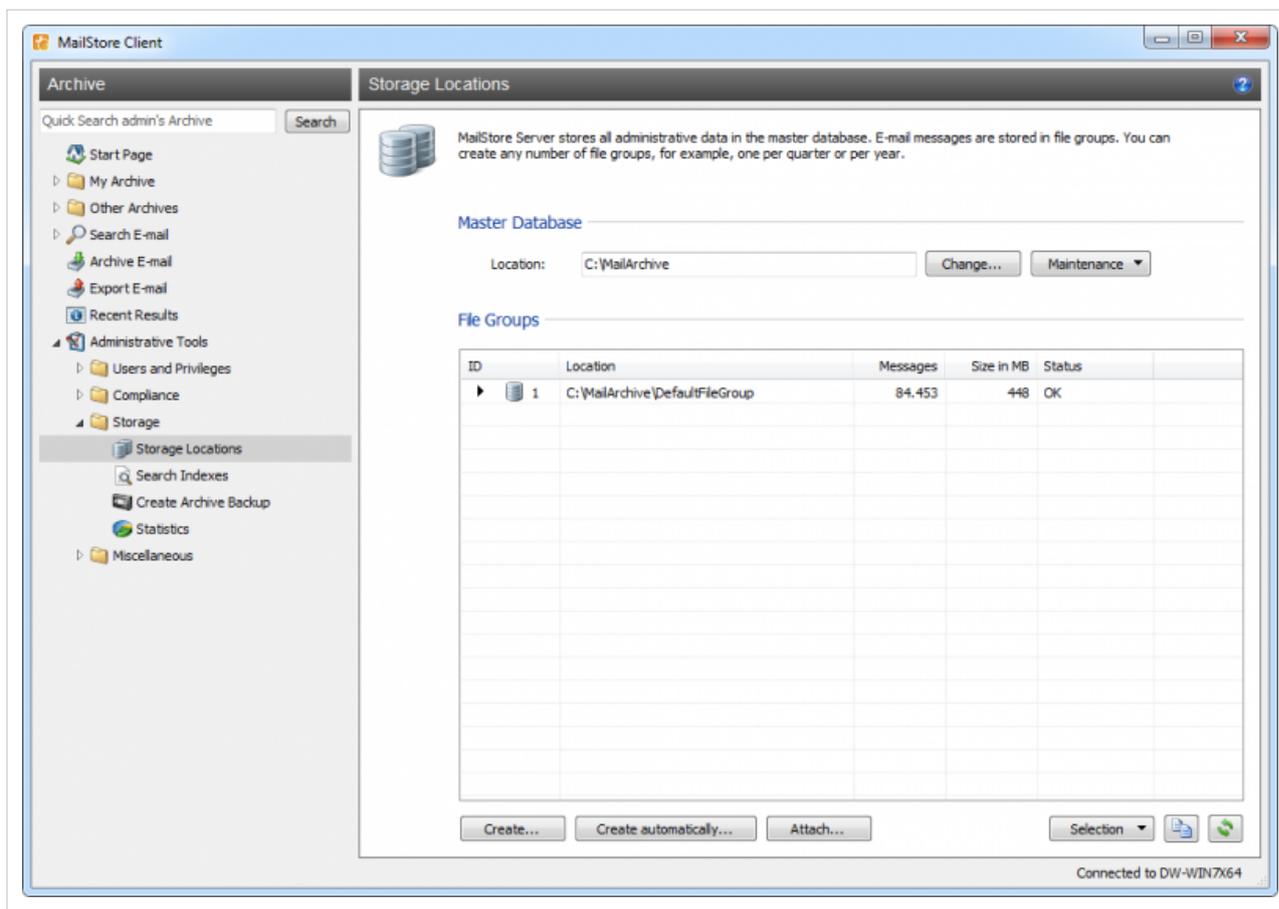
- **Database** - The database stores a list of the individual emails, including header information, as well as a list of indexes.
- **Content** - The actual email content is stored in .DAT files. Generally, these files have a manageable size of approximately 8 MB each, but individual files can vary considerably in size.
- **Index** - One index per user is created, which makes extremely fast searches possible within MailStore. In addition, indexes are used for navigation within the tree structure.

Managing Storage Locations

In Storage Locations Management, the location of the master database can be viewed and the file groups of the archive can be managed. The file groups contain the actual data, the archived emails; by creating new file groups the complete archive can be distributed among different storage locations (e.g. different hard drives); existing file groups can always be moved at a later time.

Accessing Storage Locations Management

Log on to MailStore Client as administrator. Click on *Administrative Tools* > *Storage* and then on *Storage Locations*.



Changing the Storage Location of the Master Database

Here, the storage location of the master database can only be viewed. By clicking on *Change*, only a summary of the steps (as described below) required to change the location is displayed:

Start the MailStore Server Service Configuration which is located in the MailStore Server program folder in the Windows Start menu (on the MailStore Server PC). Select the storage location of an existing master database (e.g. to restore a backup). If an empty directory is chosen, a new master database will be created.

Maintenance of the Master Database

The following features are available through *Maintenance* right of the *Location* field.

- **Cleanup (FB Sweep)**
Simple cleanup of the master database.
- **Rebuild (FB Backup+Restore)**
Complete rebuilding of the master database (e.g. if structural problems occur).

Creating a New File Group

To create a new file group, click on *Create...* in the menu bar at the bottom of the window. Select an empty directory and click on *OK* or just enter a name to create a new file group in the same directory as the master database.

Store Newly Archived Email In...

Select the file group into which new emails are to be archived. Right-click on the file group and select *Archive Here*. Only file groups that are not write-protected can be chosen; their status can be changed at runtime.

Write-Protecting a File Group

Select a file group from the list, right-click on it and select *Write Protect*.

The emails stored in a write-protected file group remain fully available to MailStore users and can be located through the folder structure or by running a search. However, neither can new emails be archived into this file group nor can existing ones be deleted from it. Please keep in mind that the file system still requires write access to the file group.

After a file group has been write-protected, it is marked in the list with a lock symbol next to it.

To remove the write-protection, select the appropriate file group and click on *Write Protect* again.

Attaching and Detaching File Groups

Existing file groups can be detached from the archive: Simply select a file group from the list and right-click on it and select *Detach* from the menu. Once detached, the file group and the emails contained therein are no longer available in the archive. This feature can be used for taking old parts of the archive out of storage, for example.

A detached file group can be reattached to the archive at any time: by clicking *Attach...*, the file group becomes fully available again. **Please note:** Only file groups which originated from the same archive can be attached; file groups from external archives cannot be integrated.

Maintenance of the File Groups

All available maintenance commands are available by right-clicking onto a file group from the list. Alternatively by selecting a file group and clicking on *Selection* in the menu bar on the bottom of the window. Following functions are available:

- **Free Unused Disk Space**
- **Check Data Integrity**
- **Cleanup (FB Sweep)**
Simple cleanup of a file group database.
- **Rebuild (FB Backup+Restore)**
Complete rebuilding of a file group database (e.g. if structural problems occur).
- **Recalculate Statistics of all File Groups**

Creating File Groups Automatically

MailStore Server creates a new file group approximately every 500.000 messages and starts archiving new messages into the newly created file group. To change the default behavior, e.g. you want to create a new file group quarterly, please proceed as follows:

- Start MailStore Client and log on as MailStore administrator (admin).
 - Click on *Administrative Tools > Storage* and then on *Storage Locations*.
 - Click on *Create automatically...*
 - Adjust the settings in the *Auto-Create File Groups* window to your needs.
- Important notice:* Refer to *Choosing the Right Storage Strategy* for additional important information.



- Under *Create in* enter a path where to create the automatically created file groups directories. MailStore always adds year-month to the name of the file group directory.
- Click on *OK* to confirm the settings.

5.8 Search Indexes

Administration of the Full-Text Search

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.

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) or
- because of changes to the index configuration (see below).

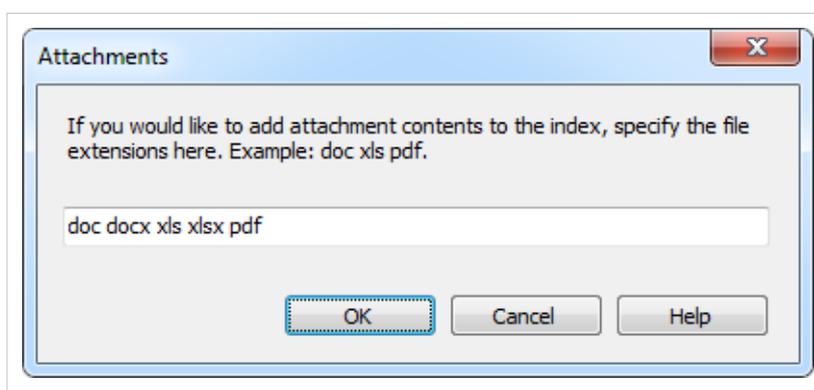
In these cases it may occur that archive, index and settings are no longer synchronous and that individual indexes must be rebuilt. Generally, a corresponding error message will be displayed.

Typical tasks regarding indexes are described in the following sections.

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...*
- Separated by space, enter the file types (file extensions) whose contents MailStore Server is to include in the search indexes.
- Click on *OK* to save the settings.
- 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.



MailStore Server can index all file types for which a so-called IFilter driver is installed. When archiving, the drivers must be installed on the MailStore Client machine, when rebuilding indexes they must be installed on MailStore Server. Typically, IFilters exist at least for all applications which are installed on the

respective machines.

If, for example, Microsoft Office 2007 is installed, the corresponding IFilter drivers for Microsoft Office documents are installed as well. IFilter drivers can also be installed independently from their applications. To learn more, please enter IFilter into any search engine.

For reasons of stability and performance, MailStore Server processes the following file types directly, regardless of the IFilter drivers that are installed:

- Text files (TXT)
- HTML files (HTM and HTML)
- PDF files (PDF)

Rebuilding Search Indexes

If new indexing settings are to be applied to all existing emails or a message appears indicating that search indexes need to be rebuilt, 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*.

 At least one search index is created for each file group and user archive. Search indexes are required to search for a text within emails and attachments. Indexes can be rebuilt at any time.

Attachments

Attachments currently indexed: **doc docx xls xlsx pdf** Change...

Search Indexes

File Group	Archive	Search Index	File Size	Status
<input type="checkbox"/>	1 - ~/DefaultFileGroup	john.bayless	Index0040.dat	4,556 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	john.wilson	Index0007.dat	3,927 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	jonathan.brown	Index0029.dat	3,166 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	keith.maxwell	Index0039.dat	3,514 KB OK
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	kevin.courts	Index0016.dat	4,512 KB Please rebuild
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	kimberly.shotwell	Index0038.dat	3,030 KB Please rebuild
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	lois.randall	Index0046.dat	2,898 KB Please rebuild
<input type="checkbox"/>	1 - ~/DefaultFileGroup	max	Index0001.dat	1,501 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	melany.holmes	Index0025.dat	3,270 KB OK
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	melvin.lutes	Index0008.dat	4,758 KB Please rebuild
<input type="checkbox"/>	1 - ~/DefaultFileGroup	michael.martinez	Index0003.dat	10,021 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	michael.wright	Index0011.dat	4,378 KB OK
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	nathaniel.dobbins	Index0009.dat	3,608 KB Please rebuild
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	phillip.edson	Index0020.dat	4,529 KB Please rebuild
<input type="checkbox"/>	1 - ~/DefaultFileGroup	rafael.redman	Index0022.dat	3,647 KB OK
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	randall.schuster	Index0006.dat	File missing Please rebuild
<input type="checkbox"/>	1 - ~/DefaultFileGroup	rebecca.ingles	Index0018.dat	3,271 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	rick.stephenson	Index0045.dat	4,661 KB OK
<input checked="" type="checkbox"/>	1 - ~/DefaultFileGroup	roger.brown	Index0041.dat	4,894 KB Please rebuild
<input type="checkbox"/>	1 - ~/DefaultFileGroup	ronald.bruce	Index0024.dat	2,222 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	ruth.haggard	Index0023.dat	4,177 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	sally.kramer	Index0017.dat	3,141 KB OK
<input type="checkbox"/>	1 - ~/DefaultFileGroup	sherry.hall	Index0037.dat	3,384 KB OK

Check All
Uncheck All
Rebuild Search Indexes
 

5.9 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 an external backup software.

Which method best suits the needs of your business depends on your preferences as well as your system environment. In smaller environments without a designated administrator, the integrated backup feature has the advantage that 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. To be able to transfer the data (for example to Digital Audio Tape), it is necessary to integrate the backed up data into another system backup.

When using external backup software (e.g. Symantec Backup Exec, Windows NTBackup or Acronis True Image,) a few measures have to be taken to be able to create a successful backup. However, it has the advantage that the MailStore Server data can be integrated into existing backup strategies without having to perform a separate system backup.

Please note: In MailStore's *Administrative Tools* under *Storage Locations*, older file groups can be write-protected. Write-protected file groups remain available to all users (although they cannot be moved or deleted) and no longer have to be included in ongoing backup procedures. These file groups can be stored on cost-efficient storage media. More information about file groups and storage locations is available under *Managing Storage Locations*.

Using the MailStore Integrated Backup Feature

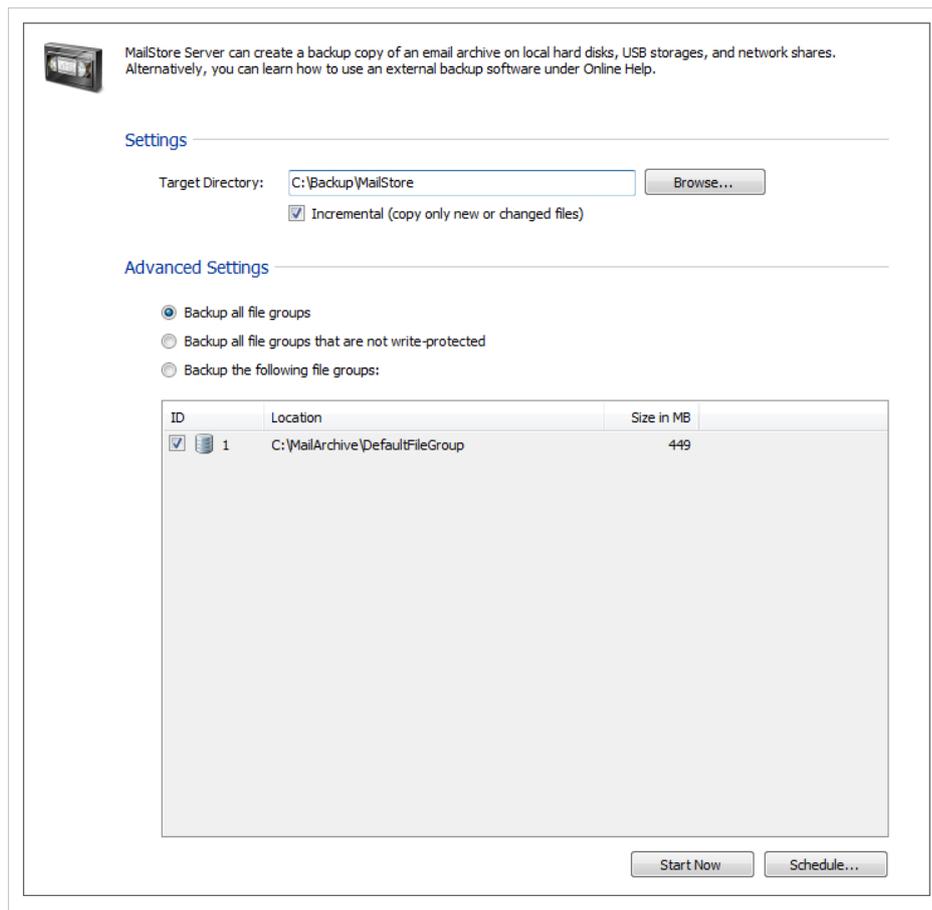
MailStore has built-in technology to perform a full backup of the archive.

A full database 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.

Procedure

To create a complete database backup, proceed as follows:

- Log in as MailStore administrator (admin)
- Click on *Administrative Tools > Storage* and select *Create Archive Backup*.



- Enter the destination directory and specify the scope of the backup. For determining which file groups should be included in the backup, the following options are available:
 - **Backup all file groups** - All currently attached file groups are archived.
 - **Backup all file groups that are not write-protected** - With MailStore Server file groups can be write-protected. Users are still able to access the data of a write-protected file group but are no longer able to make any changes (by adding or deleting emails). If a backup of a write-protected file group has already been performed, it can be excluded from the backup procedure using this option.
 - **Backup the following file groups** - With this option the backup can be limited to specific file groups.
- After selecting the appropriate option, click on *Start Now* to perform a single backup.
- To perform a backup at regular intervals, click on *Schedule...* and create the appropriate task.

Please note: The archive cannot be accessed while a backup is in progress. Trying to access the archive will generate the error message "Due to maintenance the server is currently unavailable."

Using External Backup Software

Please note: MailStore does not support VSS (Volume Shadow Copy Service). Please make sure that the MailStore Server service is stopped before performing a backup.

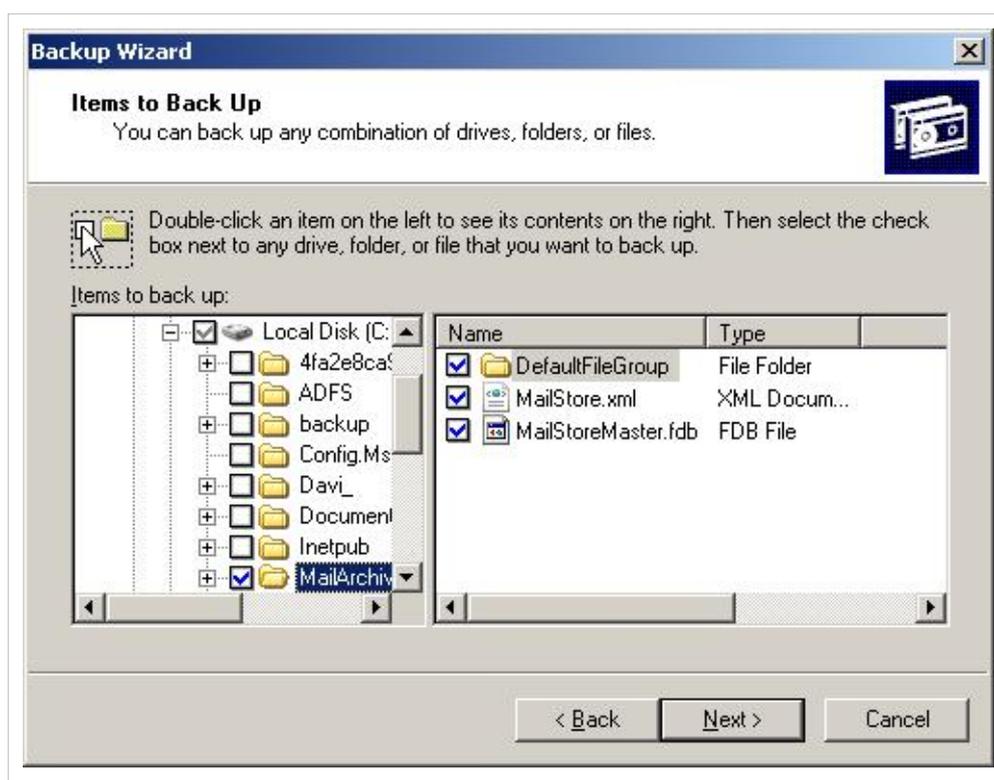
As soon as the MailStore Server service is stopped, the data directories of the archive can be backed up with external backup software. A database backup contains all archived emails and program settings such as users and privileges. Restoring such a backup is sufficient to completely reinstate the original archive without having to perform any further configurations.

How to use external software to create a backup is described below using the Windows backup program *NTBackup* under Windows Server 2003 as an example.

Preparations and Identification of the Necessary Command Line Parameters

How to determine the necessary command line parameters for a MailStore Server backup using a batch file is described in the following.

- Start the program *ntbackup.exe* either by using the *run*-function of windows or via the start-menu entry located at *Programs, Accessories, System Tools, Backup*
- Now start the backup wizard of NTBackup.
- Click on *Next*.
- Choose *Back up selected files, drives, or network data* and click on *Next*.
- Now select the MailStore Server database directory for the backup. The default directory is located under *C:\MailArchive*. Any additional file groups that were created via *Administrative Tools -> Storage Locations* have to be included in the backup as well. Afterwards click on *Next*

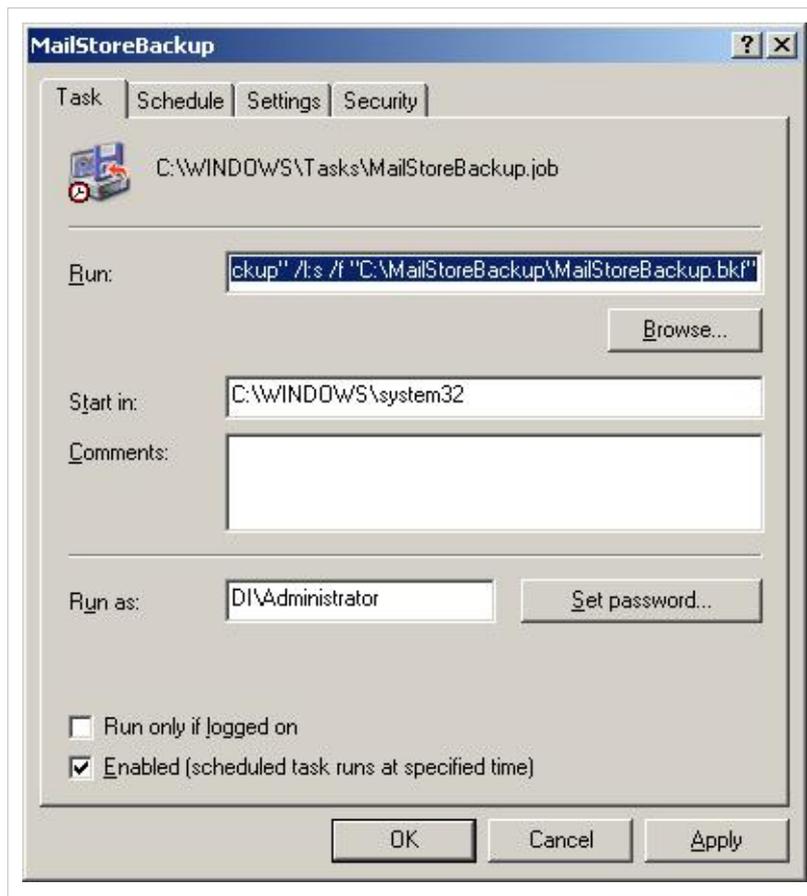


Please note: Never limit the backup to file groups; each backup must also include the master database (MailStoremaster.fdb).

- In the following dialogue enter a name for the backup job and select a location where the backup should be stored before clicking on *Next*.
- Before closing the wizard additional backup options such as the time of execution or schedule have to be specified by clicking on *Advanced*. This is necessary to create a new scheduled task in Windows which includes the required command line needed in the next section.



- The new *scheduled task* now contains all necessary parameters to create a batch file. Most important information in the command line shown in the *Execute:-textfield*.



Creating a Time-Controlled Backup Task (NTBackup)

- Open the new *scheduled task* generated in the previous step.
- Create a new empty text file and copy the text of the *Execute*-textfield containing the necessary command line parameters into that newly created file.
- Make sure the MailStoreServer service is stopped before the backup runs and gets started again after the backup has finished. To achieve this, we recommend using the *net stop*- and *net start*-commands.
- Save the file as *MailStoreBackup.bat*. Here is an example *MailStoreBackup.bat*-file:

```
REM *** Stop MailStore Server service ***
net stop MailStoreServer

REM *** Run saved NTBackup job ***
C:\WINDOWS\system32\ntbackup.exe backup "@C:\Documents and
Settings\Administrator\Local Settings\Application
Data\Microsoft\Windows NT\NTBackup\data\MailStoreBackup.bks" /n
"MailStoreBackup.bkf created 8/13/2010 at 12:17 PM" /d "Set created
8/13/2010 at 12:17 PM" /v:no /r:no /rs:no /hc:off /m daily /j
"MailStoreBackup" /l:s /f "C:\MailStoreBackup\MailStoreBackup.bkf"

REM *** Start MailStore Server service ***
net start MailStoreServer
```

- To execute the backup according to a schedule, set up a new scheduled task in Windows which executes the *MailStoreBackup.bat*-file.
- The scheduled task previously created by NTBackup can now be removed safely.

Please note: Most of the backup software products provide a way to define parameters that are executed before the actual backup task. In this case, creating a separate batch file to stop and start the MailStore Server service is not necessary.

Manual Execution of a Backup

To perform a single backup of your MailStore Server data, please proceed as follows:

- Stop the MailStore Server service using the *NET STOP MailStoreServer*-command or via the MailStore Server Service Configuration which is located in the MailStore Server program folder in the Windows Start menu.
- Start the backup program and select the appropriate files for the backup as described above.
- Start the manual backup.
- After the backup has been completed, restart the MailStore Server service using the *NET START MailStoreServer* command or via the MailStore Server Service Configuration.

Restoring Backups

This section describes how a database backup of the entire email archive can be restored. Information about archiving individual files (in EML or MSG format) is available in the chapter Archiving Emails from External Systems.

Background

A database backup 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.

Restoring 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 on which MailStore Server is installed.
- 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*.



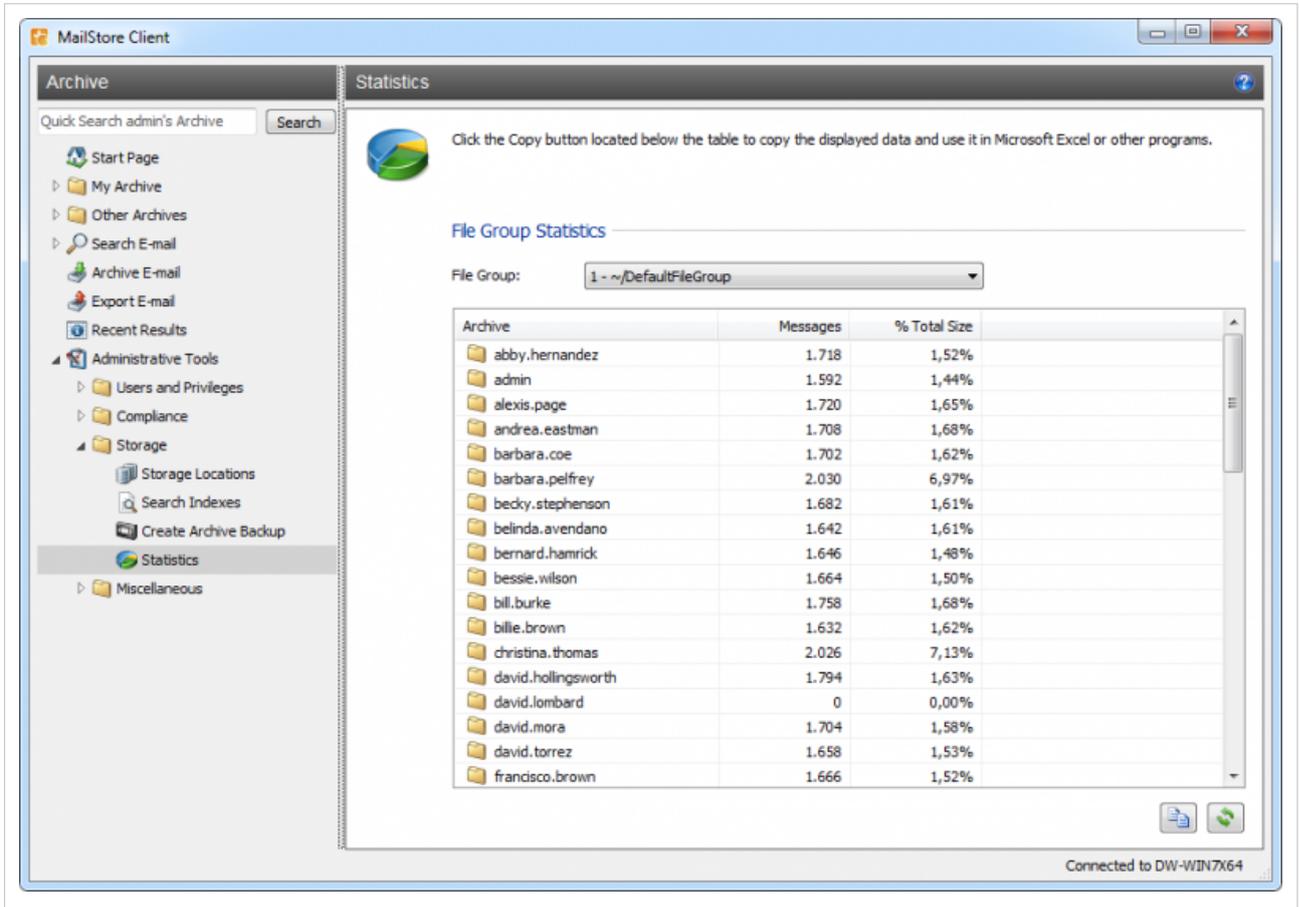
- Click on *OK* to confirm.
- At the bottom of the window, click on *Restart Service* to save the new settings.
- The backup is completely restored to the application and the archive can be used as usual.

Additional file groups may exist which will not have been restored to the archive after following these steps. In this case, please proceed as follows:

- Start MailStore Client on the MailStore Server PC and log on as MailStore administrator.
- Under *Administrative Tools > Storage* click on *Storage Locations*.
- In the menu bar at the bottom of the screen, click on *Attach...* and select the appropriate file group.
- Repeat those steps until all file groups are available again.

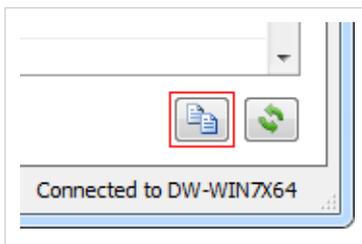
5.10 Archive Statistics

To view the statistics, log on to MailStore Client as administrator. Click on *Administrative Tools* > *Storage* and then on *Statistics*. The statistics always refer to a specific file group which can be selected from the drop-down menu *File Group*.



For every file group, the following statistics can be retrieved:

- Number of emails per user archive
- Percentage share a user archive has of the total volume of a file group



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.

General information about file groups is available in the chapter *Managing Storage Locations*.

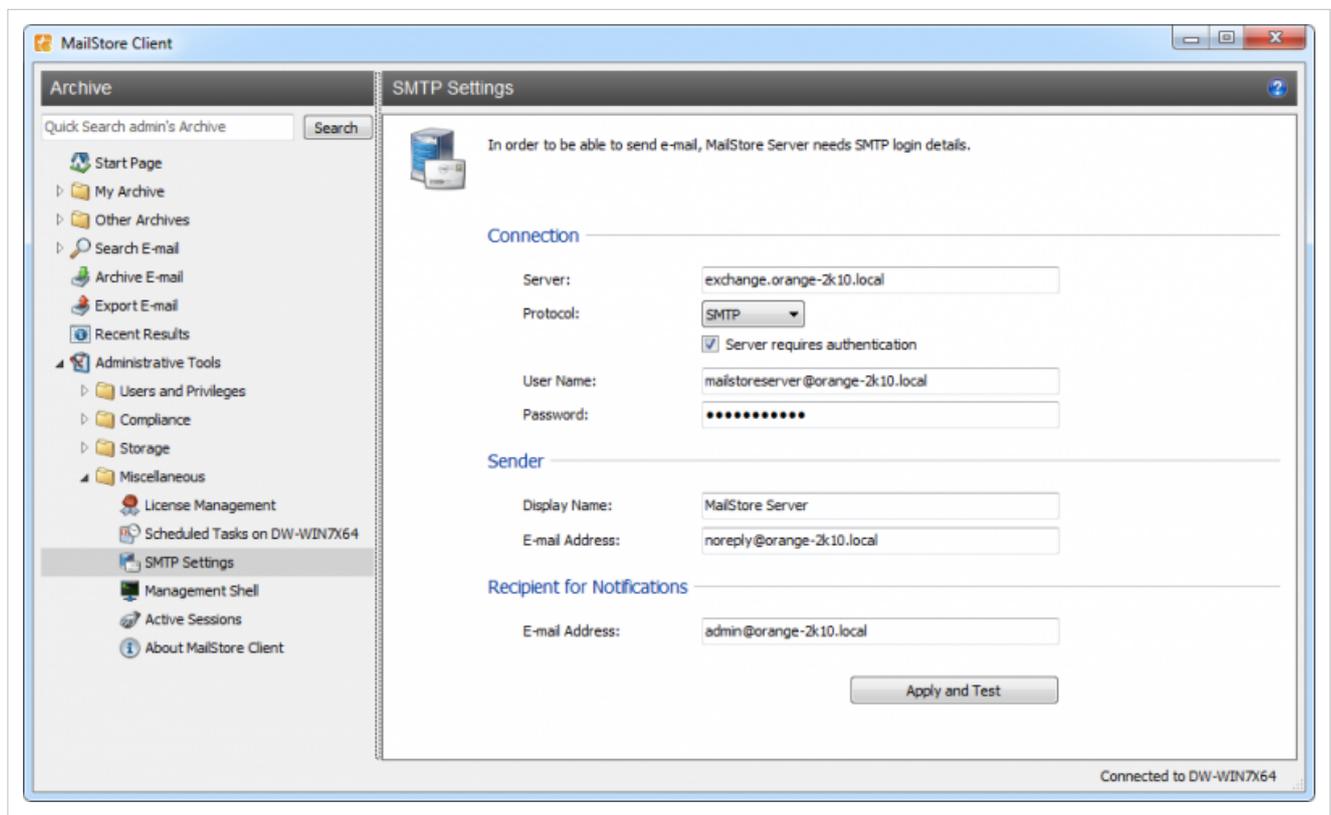
5.11 SMTP Settings

To be able to send emails, MailStore Server requires SMTP access data. Email is used to send important administrative notifications or email copies for the recovery from MailStore Web Access.

Specifying the Settings

To specify the SMTP settings, please proceed as follows:

- 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.
- If a non-standard port is to be used, enter the port number in the *Server* field as well, separated by a colon. For example: *exchange.orange-2k10.local:587*
- In the field *Protocol*, select *SMTP* if the connection to the SMTP server is to remain unencrypted. If the connection to the SMTP server is to be encrypted, select *SMTP-TLS* or *SMTP-SSL* under *Protocol*. If the SMTP server does not have an official or installed SSL certificate, mark the checkbox *Ignore SSL Warnings*; if it is unchecked, the sending process will fail.
- Especially SMTP servers which are accessible through the internet require a login (SMTP authentication). Mark the corresponding checkbox and enter the appropriate access data. Often times, 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."), mark the checkbox *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. Often times, 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.

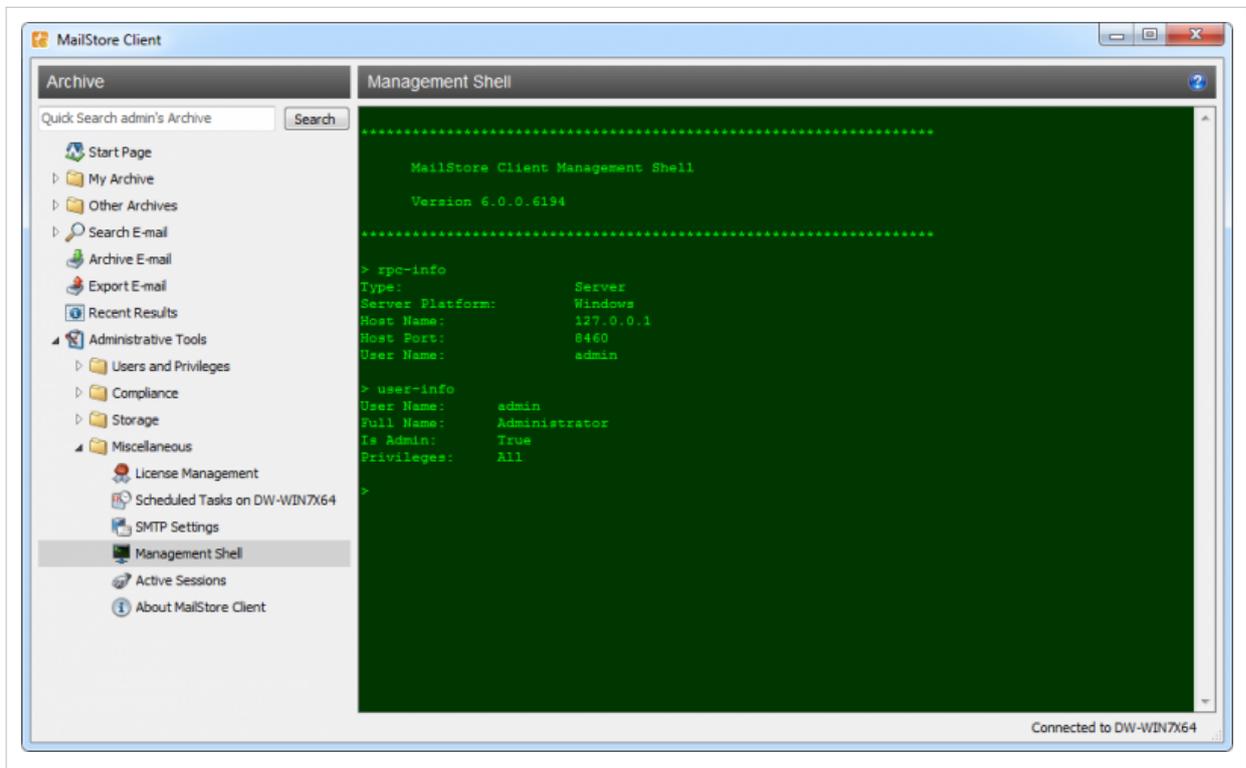
5.12 MailStore Server Management Shell

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.

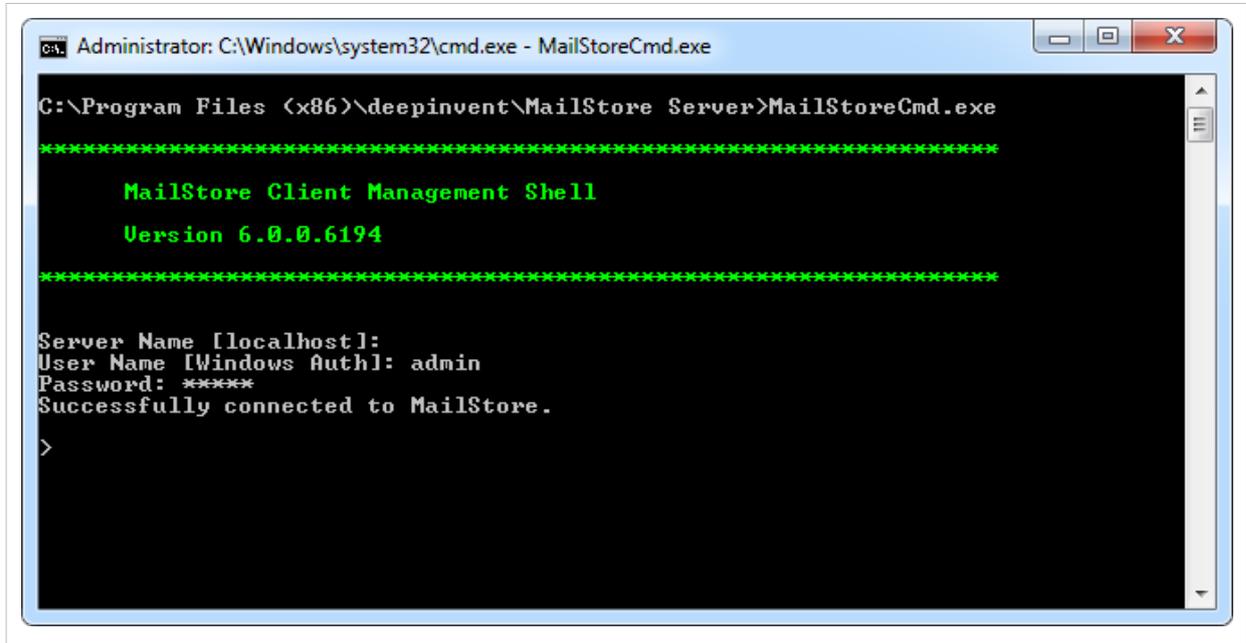
Option 1: Starting the Management Shell in MailStore Client

The management shell can be started directly from MailStore: Log on to MailStore Client as administrator and click on *Administrative Tools* > *Miscellaneous* and then on *Management Shell*.



Option 2: Starting the Management Shell with MailStoreCmd.exe

The command line client can be started in interactive mode by executing MailStoreCmd.exe without any parameters. After successful login, MailStore is ready to receive commands. Enter *exit* to log off and close the management shell.



```
Administrator: C:\Windows\system32\cmd.exe - MailStoreCmd.exe
C:\Program Files (x86)\deepinvent\MailStore Server>MailStoreCmd.exe
*****
MailStore Client Management Shell
Version 6.0.0.6194
*****
Server Name [localhost]:
User Name [Windows Auth]: admin
Password: *****
Successfully connected to MailStore.
>
```

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.

To use the non-interactive mode, pass the parameters as follows:

```
MailStoreCmd.exe --h="localhost" --pkv3="23:18:06:3f:24:7d:f3:83" --u="admin" --p="admin"
-c <Actual Command and Parameter>
```

The following is a description of the parameters:

```
--h="localhost"
```

The machine name of the MailStore server to which MailStoreCmd.exe is to connect.

```
--pkv3="..."
```

The (optional) Public Key Fingerprint, which guarantees the identity of MailStore Server.

```
--u="admin"
```

User name.

```
--p="admin"
```

Password.

```
-c
```

The actual command follows (non-interactive mode).

Command Overview

```
backup --target=<targetdirectory> [--nosync] [--skipreadonly] [--filegroups=1,2,...,4]
```

Create a backup of the archive. Following parameters are supported:

--target	directory where to create the backup
--nosync	copy all files; not only new or modified ones
--skipreadonly	skip file groups marked as read only
--filegroups=1,2,...,4	make backup of given file groups only

```
clear
```

Clears the texts currently displayed improving visibility.

```
debug-console, debuglog-browse, debuglog-disable, debuglog-enable
```

Activates, displays or deactivates the global debug protocol (within computer scope).

```
export-execute [--name=<profilename>] [--id=<profileid>] [--verbose] [--[property]="value"]
```

Executes an export profile. Following parameters are supported:

--name	name or ID of the export profile to execute
--id	
--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.

```
filegroup-attach --directory=<directory>
```

With this command a file group, which has been removed from MailStore using filegroup-detach, can be reattached to MailStore.

```
filegroup-create --directory=<directory>
```

Create a new file group at the location given as <directory>

```
filegroup-detach --gid=<filegroupid>
```

In Administrative Tools under Storage Locations, the status of a file group can be set to inactivate. The file group (along with the emails it contains) is no longer available until it is reactivated but remains in the list of existing file groups. By using the command `filegroup-detach`, a file group is completely removed from MailStore but physically remains on the hard drive.

```
filegroup-upgrade --gid=<filegroupid>
```

Upgrade file group with ID <filegroupid> to latest database version.

```
filegroup-verify --gid=<filegroupid>
```

Start a verification of the file group with ID <filegroupid>.

```
index-rebuild [--folder=<userfolder>] --gid=<filegroupid>
```

Rebuild full text index for file group with ID <filegroupid>. Rebuild can be limited to one folder only by supplying the `--folder` parameter.

```
import-execute [--name=<profilename>] [--id=<profileid>] [--verbose] [--user=<username>] [--[property]="value"]
```

Executes the archiving profile. Following parameters are supported:

- `--name` | name or ID of the import profile to execute
- `--id`
- `--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).

```
maintain-db [--gid=<filegroupid>] --command=[backup-restore|sweep]
```

Information about this commands can be found in the chapter Maintenance and Repair.

```
process-info
```

Provides information about the MailStore-Windows process.

```
rpc-info
```

Provides information about the connection with the MailStore Server process.

```
session-logout
```

End the current session. The next command will start a new session.

```
statistics-refresh
```

Recalculates all statistics.

```
user-add --name=<username> --pwd=<password>
```

Add a new user MailStore integrated user and set password

```
user-info [--name=<username>]
```

Get information about currently logged in user or <username> if supplied.

```
user-list
```

Display list of users.

```
user-set-folder-access [--name=<username>] --folder=<folder> [--access=rwd]
```

Set folder access permissions <username> to <folder>. Value of --access parameter can be one or more of these: read (r), write(w) and delete (d).

```
user-set-password [--name=<username>] --pwd=<password>
```

Set password of <username> to <password>.

```
user-set-rights [--name=<username>] [--rights=alcmend]
```

Set rights of <username>. Value of --rights parameter can be set to one of these:

- a administrator (unlimited access rights)
- l login
- c change password
- i execute import profiles (archive emails)
- m modify existing import profiles
- e execute export profiles
- n modify export profiles
- d delete emails

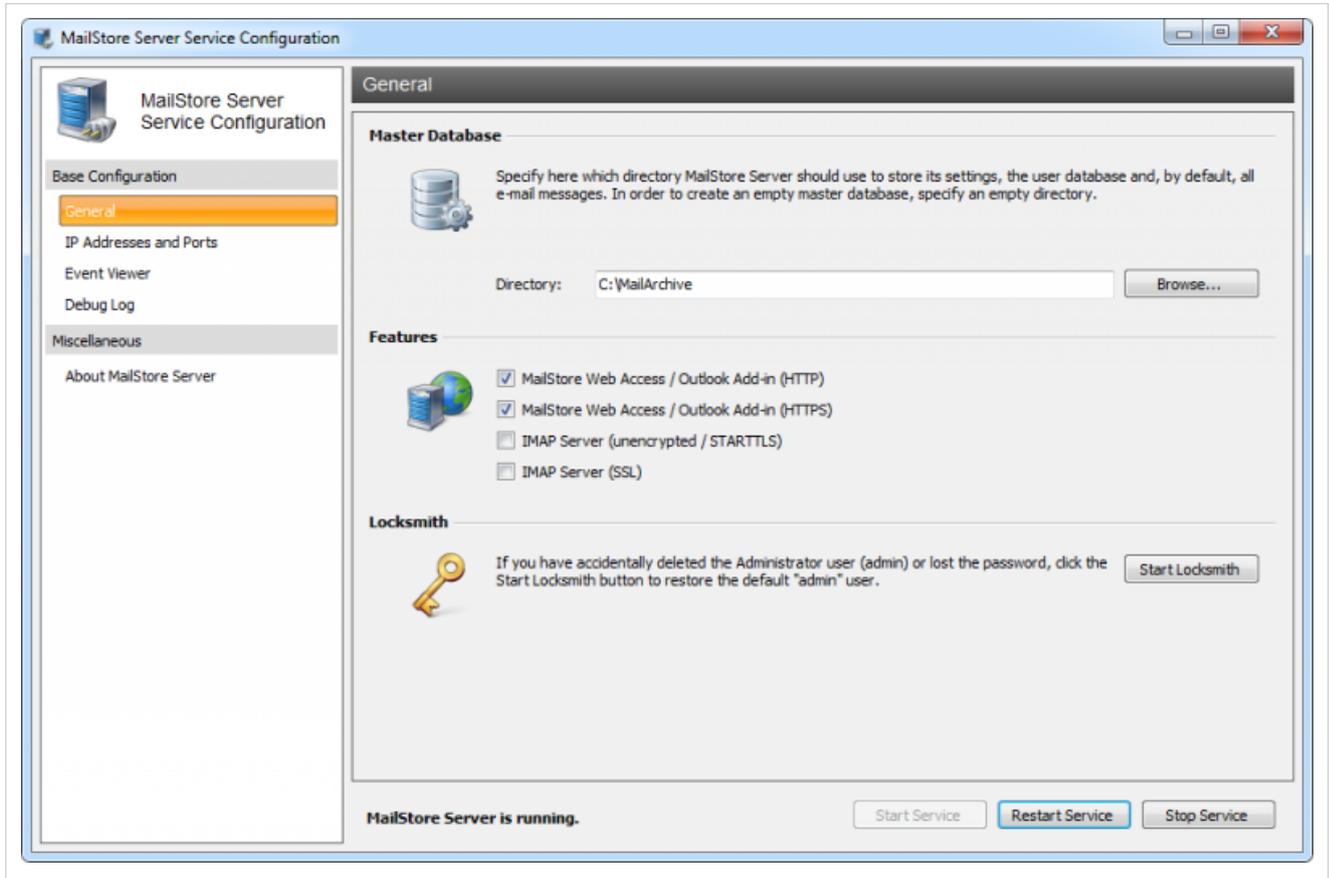
6

Chapter

Service Configuration

6.1 MailStore Server Service Configuration

Basic administrative features are available through the MailStore Server Service Configuration. It can be accessed through the MailStore Server application folder in the Windows Start menu or the corresponding desktop shortcut.



At the bottom of the window, the current status of the MailStore Server service is shown. The service can be controlled using the *Start Service*, *Restart Service* and *Stop Service* buttons. This may be necessary after certain changes to the configuration have been made or before performing backups, for example.

In General

Master Database - Select the storage location of an existing master database. When choosing an empty directory, a new master database is created therein. Additional information about master databases is available in chapter Structure of the MailStore Database.

Features - Individual components for accessing the MailStore server can be activated or deactivated. These include:

- MailStore Web Access / Outlook Add-In (HTTP)
- MailStore Web Access / Outlook Add-In (HTTPS)
- IMAP Server (unencrypted / STARTTLS)
- IMAP Server (SSL)

Components can be configured under *IP Addresses and Ports*.

Locksmith - User this feature to restore the user "admin" with the password "admin". The MailStore Server service has to be stopped.

IP Addresses and Ports

In addition to activating or deactivating individual components, you can choose the IP address and the port to which a component is to be linked to as well as the SSL certificate that is to be used for encrypted connections.

IP Address - IP address at which the component receives connections. Generally, it is advisable to link all MailStore components to all IP addresses (Standard). **Port** - Indicates the TCP port at which the component receives connections.

Example: If no web server other than MailStore Web Access is installed (e.g. an IIS website, Microsoft Outlook Web Access or SharePoint), the HTTP- and HTTPS standard ports (80 and 443) can be specified. This way, users can access MailStore Web access directly using the URLs `http://<servername>` or `https://<servername>`.

Server Certificate - Shows the current SSL certificate for the respective component of the MailStore server. To view details about the SSL certificate, click on its name. Using the 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.

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

Enable Debug Log - Activate this feature if any problems or errors have occurred when running MailStore Server. After restarting the server service via *Restart Service* in the same window, a detailed log file is taken down. This file can be evaluated by the MailStore support team, for example.

Enable IMAP Connection Debug Log - Activate this feature if problems or errors have occurred when 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 taken down. 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*.