# **Axcient DirectRestore**

Version 21.2.0



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## **1 Product overview**

Axcient DirectRestore (ADR) is a granular data extraction software for offline SQL databases and Microsoft Exchange Server mailbox stores and Outlook files. The utility provides direct access to unmounted database tables and mail store contents, displaying file structure and its contents with selective export functionality. With a search query tool, users are able to export specific queries rather than large tables or files. For SQL databases, recovered items can be saved as SQL scripts or exported directly to a live SQL server. For Microsoft Exchange servers, files can be saved as Personal Storage File (.pst) files, to be opened with Microsoft Outlook or other compatible email clients, or exported directly into live Exchange Server mailboxes. The utility makes no changes to the store, preserving it in original unmodified state. Main features of Axcient DirectRestore:

### SQL Database

- · Recovers entire tables, objects and object groups
- · Recovers data obtained by specific search queries
- Recovers keys, scripts, functions, triggers and procedures
- Recovers default settings, user types and views
- Saves single or multiple points of data as SQL scripts or exports to live SQL database

### Microsoft Exchange Server

- · Recovers mailboxes, folders, messages and file attachments
- Recovers contents of Public Folder mailboxes
- Recovers email addresses from Active Directory storage
- · Recovers notes, contacts, tasks and appointments
- Recovers creation dates for all objects
- Saves selected items to PST files or exports to live Exchange Server mailbox(es)

## **1.1 Supported Exchange database versions**

Axcient DirectRestore supports the following mail store versions:

2019 CU3, 2019 CU2, 2019 CU1, 2019, 2016 CU15, 2016 CU14, 2016 CU13, 2016 CU12, 2016 CU11, 2016 CU10, 2016 CU9, 2016 CU8, 2016 CU7, 2016 CU6, 2016 CU5, 2016 CU4, 2016 CU3, 2016 CU2, 2016 CU1, 2016 RTM, 2013 CU21, 2013 CU20, 2013 CU19, 2013 CU18, 2013 CU17, 2013 CU16, 2013 CU15, 2013 CU14, 2013 CU13, 2013 CU12, 2013 CU11, 2013 CU10, 2013 CU9, 2013 CU8, 2013 CU7, 2013 CU6, 2013 CU5, 2013 SP1, 2013 RTM, 2010 SP3, 2010 SP2, 2010 SP1, 2010 RTM, 2007 SP3, 2007 SP2, 2007 SP1, 2007 RTM, 2003.

#### Note

Exchange Server 2003 stores data in two files: an .edb file and an .stm file, that's why they should be kept together and should have a common name with different extensions (that is, .edb and .stm). For further information, please visit Microsoft TechNet - <u>http://technet.microsoft.com/en-us/library/</u>bb124808(v=exchg.65).aspx.

## **1.2 Supported Outlook versions**

Axcient DirectRestore supports the following versions of PST/OST files: 2019 (Office 365), 2016, 2013, 2010, 2007, 2003, XP, 2000, 98 and 97

#### Note

OST file of 2013, 2016, 2019 version is not supported.



## **1.3 Supported SQL Server database versions**

Axcient DirectRestore supports the following versions of MDF/BAK files (including Express edition): 2017, 2016, 2014, 2012, 2008R2, 2008 and 2005

## 1.4 System requirements

Basic system requirements:

- Operating systems: Windows 10, Windows 8.1, Windows 8, Windows 7, Vista, 2019 Server, 2016 Server, 2012 Server R2, 2012 Server, 2008 Server, 2003 Server or XP
- RAM: 1024MB, depends on store size and OS version
- Hard Disk: minimum 50MB of free space required for installation
- Display: 800 x 600 or higher resolution, 256 colors

Additionally, Axcient DirectRestore may require free space on disk 1.5x the size of mail store being processed. For example, for 300MB store, 450MB free space should be available.

## 1.4.1 Live Exchange Server export requirements

### Exchange Server

Exchange Server 2019, 2016, 2013, 2010 or 2007

Exchange Web Services enabled on Exchange Server

### Network

Port 443 open on the network. The EWS messages are transported via SOAP-based API, which is essentially sending XML data using https protocol.

### **Restore client**

ADR installed. Access to Exchange server(s) over network.

## 1.4.2 Live SQL Server export requirements

#### SQL Server

SQL Server 2017, 2016, 2014, 2012, 2008R2, 2008 or 2005

SQL Server Browser running on SQL Server

### Network

To establish connection to live SQL Server, remote network access must be allowed on the server and TCP/IP protocol must be enabled in SQL Server Configuration Manager. For detailed instructions on how to do it, visit http://blogs.msdn.com/b/walzenbach/archive/2010/04/14/how-to-enable-remote-connections-in-sql-server-2008.aspx

#### **Restore** client

ADR installed. Access to SQL Server(s) over network.

## **1.5 Limitations**

Current version of the product has the following limitations:

- While processing dirty shutdown databases storages may be restored not to the topical condition.
- Messages in the Outbox folder are not restored if they haven't been synchronized with the server.
- Simultaneous recoveries are not supported.
- Simultaneous running of more than one instance of the product is not supported.
- Encrypted emails are not restored.
- Messages with size over 64MB are not supported.
- Windows 2000, 98, ME and 95 are not supported.
- Recovery of delivery receipts and non delivery reports is not supported.
- Tool doesn't support usage in "Run as different user" mode.
- OST files, created in Outlook 2013, 2016 are not supported.



- Password-protected PST files are not restored in command-line interface.
- Command-line interface is not supported for MDF and BAK files.
- Compressed SQL Server 2014, 2016, 2017 BAK files are not currently supported.
- System MDF and BAK files are not currently supported.
- Encrypted SQL databases are not currently supported.
- Calculated fields and fields of type [sql\_variant] in indexes cannot be used in SQL database search.
- Sparse columns in SQL database are not supported.
- Filestream data type and Filetables in SQL databases are not currently supported.
- Searching by 'real' data type may return not full results.
- Approved status of Calendar Events is not supported.
- Links to the Exchange Global Address List are not supported.
- Exchange Server Databases: Preview items with 4-byte Unicode characters may be not full in product started on Win7 and WS2008 OS. It is not affect on quality of restoring into PST or into live server.
- Exchange Server Databases: Search input field may work incorrectly with 4-byte Unicode characters. It does not affect on results of search.
- MS SQL Server: schemas with name containing a dot (".") for example, "[custom.schema]" can not be restored.
- MS SQL Server 2017: restore of graph tables is not supported.
- MS SQL Server: for "sql\_variant" datatype basetypes are not restored correctly (values are restored with "nvarchar" basetype).
- MS SQL Server: secondary data files are not currently supported.
- MS SQL Server: decimal values close to maximal/minimal can not be restored to live SQL server through injection.

#### Injection limitations for Exchange Server

- To restore a mailbox, an empty mailbox must be created in advance using the standard Exchange Server administration tools or can be created from ADR. In existing mailboxes folders and individual messages can be created without any additional administrative actions.
- It is possible to rename/delete folders in the attached mailbox only within one program session.
- Injection will not be supported for Exchange Server 2003 and earlier versions. These versions do not support EWS.
- Archived mailboxes (and items from such mailboxes) are not exported to live Exchange Server.
- Photos of contacts are not exported to original live mailbox in Exchange Server 2007.
- Emails with embedded images and other OLE objects are displayed with an attachments icon after exporting into live Exchange Server.
- Creation time and modified time are not restored.
- Exporting data into live public folder is not supported.
- Exporting data from PST/OST files into original mailbox is impossible.
- Contact groups and meeting requests cannot be exported into live Exchange Server 2007 instances. Use export through PST for these item types.
- Missing sent date is exported as current date/time into live Exchange Server.
- It is impossible to use the connection to the archive mailboxes, as they can not be found in the Active Directory.
- For IPM.Task class items existing "Date Completed" value is exported into live Exchange Server as current date/time.
- For IPM.Task class items "Update List" field is not restored after injection.

### Limitations for search in attachments content (available for EDB/PST/OST files)

Search in attachments does not work for:

- Text contained in embedded OLE objects, WordArt and smart objects, charts etc. Documents metadata (author, comments, tags etc.).
- Marker symbols in lists (numbered or bulleted).
- Text in header/footer.



- XLS/XLSX: number values, formulas, cell comments.
- PPT: tables content.

### Mailbox creation limitations:

- Creating new mailbox is not supported on Exchange Server 2007 and earlier versions.
- Prior to creating new mailbox on Exchange Server it must be properly configured.
- The machine with Exchange Server must have Exchange PowerShell installed.
- Exchange Server connection must be performed using credentials of the user who has permission to create mailboxes (e.g. Administrator).

### Тір

Note that the utility is best used for granular item extraction. The user interface of the program is designed for ease of locating, selecting and exporting specific messages, folders or mailboxes. Entire databases can be exported as well, but the restore time will significantly increase over a slow connection. For bulk operations that involve exporting more than one mailbox it is typically better to work with a local copy of the database.

## 1.6 Boundaries for optimal recovery and search

Usage of Axcient DirectRestore is optimal for files that do not exceed: **EDB**:

- EDB size: 2TB
- Mailbox size: 100GB
- Number of messages in the EDB file: 2,000,000
- Number of mailboxes in the EDB file: 2,000
- Number of messages in one mailbox: 100,000

#### PST/OST:

- PST/OST size: 100GB
- Number of messages in the PST/OST file: 200,000
- Number of folders in the PST/OST file: 1,000
- Number of messages in one folder: 100,000

#### MDF/BAK:

- MDF/BAK size: 1TB
- Number of tables in the MDF/BAK file: 1,000
- Number of rows in one table: 10,000,000

## 1.7 Customer support

For customer support, please contact Axcient using one of the methods listed below.

Online:	http://www.axcient.com/support/contact/
Email:	support@axcient.com

### Тір

When contacting customer support with a technical issue, please have ready the program's log files and the store you are having difficulty with.

To get log files, click **File** menu and choose **Open log folder**. Zip the contents of the folder and attach the resulting archive to your support request.

If the log archive and/or mail store exceeds 10MB, it may be impossible to send them as an email attachment. In that case, upload instructions will be provided to you upon request.

## **2** Installation

This chapter describes the steps required to install Axcient DirectRestore.

Depending on your preferences, it is possible to install the product in default or advanced mode.

### Default mode

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Default mode provides simple setup that requires just a few mouse clicks to complete. For the sake of simplicity, it does not offer any customization capabilities and uses the following default settings:

- Axcient DirectRestore will be installed in a per-user folder and be available just for your user account. You do not need local administrator privileges in this case.
- The default installation location is "C:\Program Files\Axcient\DirectRestore\"
- A shortcut for this program will be created on the desktop automatically.

Step by step instructions:

- 1. Double-click on the setup file to start the installation process.
- 2. The Software License Agreement appears. Read it and accept the terms in the License Agreement.
- 3. Click Install to start setup.

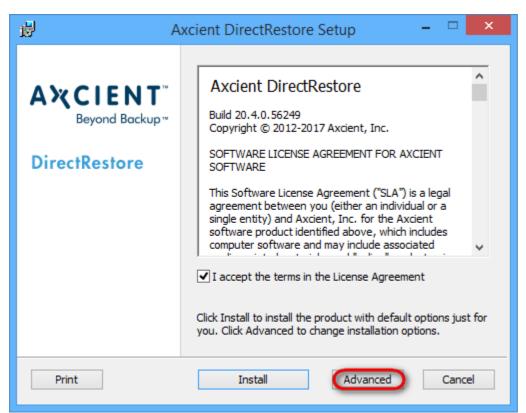
岁 A	xcient DirectRestore Setup 🛛 🗕 🗖 🗙
A X CIENT Beyond Backup™ DirectRestore	Axcient DirectRestore Build 20.4.0.56249 Copyright © 2012-2017 Axcient, Inc. SOFTWARE LICENSE AGREEMENT FOR AXCIENT SOFTWARE This Software License Agreement ("SLA") is a legal agreement between you (either an individual or a single entity) and Axcient, Inc. for the Axcient software product identified above, which includes computer software and may include associated
Print	Install Advanced Cancel

4. The installation will start. When finished, you will have an option to launch the installed product. **Advanced mode** 

Advanced setup mode allows changing default installation options.

Step by step instructions:

- 1. Double-click on the setup file to start the installation.
- 2. The Software License Agreement appears. Read it and accept the terms in the License Agreement.
- 3. Click Advanced to change installation options described above.



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4. Click Next to install the product to the default folder or Change... to choose another folder. To add an icon shortcut to the desktop for quick start of the program, check Create a shortcut for this program on the desktop. Click Next.

讇	Axcient DirectRestore Setup -		x
	<b>Destination Folder</b> Click Next to install to the default folder or click Change to choose another.		X
	Install Axcient DirectRestore to:		
	C:\Program Files (x86)\Axcient\ Change ✓ Create a shortcut for this program on the desktop.		
	Back Next (	Cance	1

- 5. Click **Install** to begin the installation. Click **Back** to change any of your installation settings. Click **Cancel** to exit the setup wizard.
- 6. After the installation finishes you can choose to Launch Axcient DirectRestore when setup exits to start the program automatically by clicking the appropriate checkbox. Click the Finish button to exit the setup

wizard.

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## 2.1 Product activation

When starting Axcient DirectRestore for the first time, you are prompted to activate the product by entering your RMC credentials.

Enter your login and password.		Confirmation
Enter your lo	ogin and password from the RMC Axcient we	b site.
Login	Enter your RMC credentials	
Password	••••••	Denter
	Forgot your password?	Don't have an account?
	Car	Activate

In case problem with incorrect credentials, please use link Forgot your password?.

In case you don't have RMC account, please use License key for activation (for getting this, please contact to support team). For it click link **Don't have an account?**.

Enter the license key, and provide the names of registered user and company. Click **Activate** to finish the activation.

nd password.	Enter licens	e key	Confirmation
nd registration informa	ation.		
Enter the License ke	y, supplied after the	purchase	
Enter your name			
Enter the name of the	e company (leave b	lank if the program will	be used for personal needs)
Ca	ncel	Previous	Activate
	nd registration informa Enter the License ke Enter your name Enter the name of th	nd registration information. Enter the License key, supplied after the Enter your name	nd registration information. Enter the License key, supplied after the purchase Enter your name Enter the name of the company (leave blank if the program will

### Тір

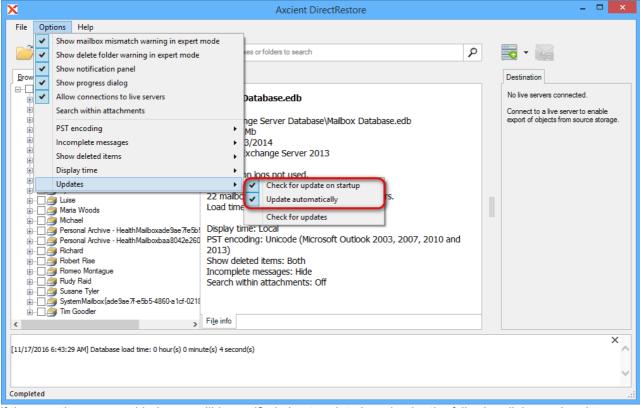
X

When getting an error message, first of all check if the license key has been entered correctly. It's best to copy and paste the key to avoid typos.

## 2.2 Updating the product

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In order to update the product automatically as soon as a new version is released, use auto-update, available in the **Options** menu.



If these options are enabled, user will be notified about updated version by the following dialog and update process will start in 5 seconds:

K         Free update now available         X	<
You are running Axcient DirectRestore version 20.2.0.55467. Update to version 20.3.0.55824 is available!	
Release notes:	
New major features and improvements: - Support work with Exchange Server version 2016 CU5 - Added feature to mark fields with input errors while searching in SQL Server databas - Added a prompt when deleting non-empty folder in expert mode	
Fixed bugs: - resolved problems with export into original exchange mailbox - resolved problems while working with SQL Server files	
< >	
Running copy of the application will be closed when install process begins. If you do not have administrator privileges, download and install this build at:	
http://axcient.com/files/documentation/Downloads/esr-20.3.0.55824-setup-ax.msi	
Don't remind me on startup until the next update	
Download and install Maybe later 😨	]

In case if the point **Update automatically** is not checked, user should manually click the **Download and install** button.

To disable this option remove the check marks Check for updates on startup and Update automatically.



In this case you will not get any notifications, when a new version becomes available for downloading. Use **Check for updates** in the **Updates** menu to verify if any updated version is ready to be used.

X	X Axcient DirectRestore – – ×			
File Optio	ns Help			
	Show mailbox mismatch warning in expert r Show delete folder warning in expert mode Show notification panel Show progress dialog Allow connections to live servers Search within attachments PST encoding Incomplete messages Show deleted items Display time Updates Luise Maria Woods	Select mailboxes or folders to search          Database.edb         ge Server Database\Mailbox Database.edb         Mb         3/2014         xchange Server 2013         n logs not used.         Check for update on startup         Update automatically	م	
	Michael Personal Archive - Health Mailboxade9ae 77e5b Personal Archive - Health Mailboxbaa8042e260 Richard Robert Rise Romeo Montague Rudy Raid Susane Tyler System Mailbox{ade9ae 77-e5b5-4860-a1cf-0218 Tim Goodler	Display tin Check for updates PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Only non-deleted items Incomplete messages: Hide Search within attachments: Off File info		

## **3 Opening a file**

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To directly open a file for browsing and export, launch Axcient DirectRestore and click file open button on the taskbar or select **File|Open** from the menu. On first launch, the file open dialog will be shown automatically. Select the store you will be working with and click **Open**.

X		Open		×
Look in:	🔋 Exchange Ser	ver Database 🗸 🗸	G 🤌 📂 🛄 -	
<b>S</b>	Name XMailbox Data	<u>^</u>	Date modified 8/16/2012 4:26 AM	Type Exchange Server
Recent places	Mailbox Data	abase	3/13/2014 3:51 AM	Exchange Server
Libraries				
Market This PC				
Network	<			>
	File name: Files of type:	Mailbox Database All supported formats (*.edb, *.pst, *	.ost, *.mdf, *.bak) ∨	Open Cancel
	Path to log files:		Browse	

By default, a progress window will accompany opening the selected file. The window displays overall progress and information about the number of items and objects in the file (1). The window can be disabled by unchecking the **Show the dialog next time** check box (2) or from the **Options** menu. The progress window will be automatically closed in 3 seconds after database opening (3).

	Progress	
Completed		
Mailboxes Read speed Elapsed time	22 1 0 B/s 00:00:02	
Show the dia	alog next time	Close (1)

Current operation can be cancelled right on the progress dialog, by clicking an appropriate link.

After loading the file is complete, it will be available for browsing and export. The opened store will also become the default store and will be automatically reopened next time you launch the utility.

Opened database can be reloaded with database log files. Go to the File menu and select Reload database



### using transaction logs.

X	Axcient DirectRestore – 🗆 🗙
File Options Help Open file Ctrl+O	
Recent	Select mailboxes or folders to search
Close file	
Reload database using transaction logs	
Search for files to open	ailbox Database.edb
Export selected items into PST Ctrl+S	<pre>\Exchange Server Database\Mailbox Database.edb te: 904 Mb</pre>
Export into original Exchange mailbox Ctrl+G	te: 3/13/2014
Cancel current operation Ctrl+N	rsion: Exchange Server 2013
Open log folder Delete saved temp files and logs	ansaction logs not used.
Exit Alt+X	mailboxes. Select a mailbox to display folders.
B - B Personal Archive - Health Maliboxbaa 8042e26 B - Robert Rise B - Romeo Montague B - Romeo Montague B - Romeo Montague B - S Romeo Montague B - S Romeo Montague B - S System Malibox (ade 9ae 77 e 5b 5-4860-a 1cf-021 B - B - D - Tim Goodler	
	File info
Completed	

### Note

If you closed the progress window, it can easily be shown again by clicking on the progress bar on the status panel.

## 3.1 Finding a file

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In case when the location of the file is unknown, it is recommended to scan existing drives to find the data. Axcient DirectRestore scans local drives, both mounted and unmounted, as well as network drives and searches for PST/OST, MDF/BAK and EDB files.

### To start a new search click Search for files to open in the File menu.

X		Axcient DirectRestore – 🗖 🗙
File	Options Help	
	Open file Ctrl+0	
	Recent	Select mailboxes or folders to search
	Close file	
	Reload database using transaction logs	ailbox Database.edb
C	Search for files to open	
	Export selected items into PST Ctrl+	01.004 Mb
	Export into original Exchange mailbox Ctrl+(	te: 3/13/2014
	Cancel current operation Ctrl+1	rsion: Exchange Server 2013
	Open log folder	ansaction logs not used.
	Delete saved temp files and logs	
	Exit Alt+	mailboxes. Select a mailbox to display folders.
	Maria Woods Michael Personal Archive - HealthMailboxade9ae7re Richard Robert Rise Robert Rise Ruby Raid SystemMailbox{ade9ae7re5b5-4860-a1cf-0; Tim Goodler	Display time: Local PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Stow deleted items: Only non-deleted items Incomplete messages: Hide Search within attachments: Off
< Comp		▶ File info
com	icicu	

#### The following form appears, displaying the list of mounted disks:

×	9	Search for files to op	en		x
Select source:	ted volumes		Filter:	File types by application: ✓ Exchange Server (*.edb) ✓ Outlook (*.pst, *.ost) ✓ SQL Server (*.mdf, *.bak) Custom match: Example: *.edb;*.ost	×
File	Size	Date created	Date modified	Туре	
Open file			Start	search Exit	



To use unmounted disks (NTFS and FAT32 file systems are supported) for search, check **Include unmounted volumes**. All unmounted volumes will appear in the list of disks.

X	9	Search for files to op	en			×
Select source:	1e3-824b-806	ie6f6e6963})			File types by application:  Exchange Server (*.edb)  Outlook (*.pst, *.ost)  SQL Server (*.mdf, *.bak)  Custom match:	
Add location to search Include unmount	ted volumes	Date created	Date modified	Filter:	Example: *.edb;*.ost All Type	>
Open file				Start	search Exit	
Note						

Only NTFS and FAT32 file systems of unmounted drives are supported.

### Select a location to search in.

×	9	Search for files to op	en		×
Select source:				File types by application: ✓ Exchange Server (*.edb) ✓ Outlook (*.pst, *.ost) ✓ SQL Server (*.mdf, *.bak) Custom match: Example: *.edb;*.ost	
Add location to search	ted volumes		-		
Found files:			Filter:	All	¥
File	Size	Date created	Date modified	Туре	
Open file			Start	search Exit	

List of found files will be displayed. Double-click a file to open it.

×		Search for files t	o open				×
Select source:					File types by application: Exchange Server (*.er Cutlook (*.pst, *.ost) SQL Server (*.mdf, *.b Custom match: Example: *.edb;*.ost		
Add location to search Include unmour	nted volume:	3		Filter:	All		<b>Y</b>
File	Size	Date created	Date modified		Туре	,	^
C:\Exchange Server Database\Mailbox Data.edb	648 MB	6/22/2016	8/16/2012		Exchange Server (*.edb)		4
C:\Exchange Server Data\Mailbox Database.edb	904 MB	1/24/2016	3/13/2014		Exchange Server (*.edb)		
C:\AllTestScripts\Script\AC_edb.sj.bak	7.02 KB	5/20/2019	5/20/2019		SQL Server (*.mdf, *.bak)		
C:\AllTestScripts\Script\AC_pst.sj.bak	8.65 KB	5/20/2019	5/20/2019		SQL Server (*.mdf, *.bak)		
C:\AllTestScripts\Script\AtC.sj.bak	13.1 KB	5/20/2019	5/20/2019		SQL Server (*.mdf, *.bak)		
C:\AllTestScrip\AutoCheckGLSearch_edb.sj.bak	17.6 KB	5/20/2019	5/20/2019		SQL Server (*.mdf, *.bak)		
C:\AllTestScripts\Script\AutoCheckSearch.sj.bak	13.7 KB	5/20/2019	5/20/2019		SQL Server (*.mdf, *.bak)		
C:\AllTestScripts\\AutoCheckSearch_edb.sj.bak	18.6 KB	5/20/2019	5/20/2019		SQL Server (*.mdf, *.bak)		
C:\AllTestScripts\S\AutoCheckSearch_pst.sj.bak	17.0 KB	5/20/2019	5/20/2019		SQL Server (*.mdf, *.bak)	•	-
Open file Search complete. 150 file(s) found.			a	ear list and	d search again	Exit	

### Note

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To scan unmounted disks, the user, running the program, must have administrative rights.

## 4 Axcient DirectRestore. SQL Server



## 4.1 Finding and browsing data

In general, Axcient DirectRestore provides two modes of processing file data: browsing the file tree and search. Using these, it is possible to efficiently form a set of objects for subsequent export, including the necessary ones and excluding ones to be skipped.

A newly opened database is shown in the **Browse** mode.

×	Axcient DirectRestore	- • ×
File Options Help		
	Search	2
Browse AdventureWorks2012_CS_Data.mdf Programmability (4) Programmability (4) Procedures (10) Bules (0) Duser Types (6) Duser Types (6) Duser Types (6) Duser Types (6) Duser Types (7) Duser Types (7)	Tables         71 objects. Select an object to display data.	
Completed		.:

## 4.1.1 Browsing database tree

Browse mode shows database in a tree-like structure and allows browsing folders and previewing individual objects.

This mode is best for navigating to a specific object, when it is precisely known what data needs to be extracted.

For example, a user may ask to restore some specific table. Expand the folder 'Tables' in the tree and select the table. Available rows will be listed to the right of the tree. Please note that product will not try to load all rows in table. Instead of that rows will be loaded by portions each time you navigate to the end of list.

		Axcient Direc	tRestore				
e Options Help							
7			Search in Pers	on.Address			
owse	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
im Programmability (4)	Addressib						
Tables (71)	1	1970 Napa Ct.	NULL	Bothell	79 79	98011	0xE610000010
dbo.AWBuildVersion (1)	2	9833 Mt. Dias Blv.	NULL	Bothell		98011	0xE610000010
dbo.DatabaseLog (1,597)	3	7484 Roundtree Drive	NULL	Bothell	79 79	98011	0xE610000010
dbo.ErrorLog (0)	4	9539 Glenside Dr	NULL	Bothell		98011	0xE6100000010
Human Resources. Department (16)	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE610000010
Human Resources. Employee (290)	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE610000010
Human Resources.EmployeeDepartmen	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE610000010
	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE610000010
	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE610000010
Human Resources. Shift (3)	10	250 Race Court	NULL	Bothell	79	98011	0xE610000010
Person.Address (19,614)	11	1318 Lasalle Street	NULL	Bothell	79	98011	0xE610000010
Person. Address Type (6)	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE610000010
Person.BusinessEntityAddress (19,614)	13	9265 La Paz	NULL	Bothell	79	98011	0xE610000010
Person.BusinessEntityContact (909)	14	8157 W. Book	NULL	Bothell	79	98011	0xE610000010
Person.Contact Type (20)	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE610000010
Person.CountryRegion (238)	16	40 Ellis St.	NULL	Bothell	79	98011	0xE610000010
Person, EmailAddress (19.972)	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE610000010
Person.Password (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE610000010
Person.Person (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE610000010
Person.PersonPhone (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE610000010
Person.PhoneNumberType (3)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE610000010
Person.StateProvince (181)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE610000010
Production.BillOfMaterials (2,679)	23	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE610000010
Production.Culture (8)	24	80 Sunview Terrace	NULL	Duluth	36	55802	0xE610000010
Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73	75201	0xE610000010
Production.Illustration (5)	26 <	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE6100000010

In case if SQL script of a table is necessary, just right-click on the table in the database tree and select **'Show SQL script'** in the context menu.

		Axcient Direct	tRestore				
e Options Help							
2			Search in Pers	on.Address			
rowse AdventureWorks2012_CS_Data.mdf	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
🗄 📄 💼 Programmability (4)	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE6100000010
	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE6100000010
dbo.AWBuildVersion (1)	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE6100000010
dbo.DatabaseLog (1,597)	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE6100000010
dbo.ErrorLog (0)	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE6100000010
Human Resources. Department (16)	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE6100000010
	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE6100000010
	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE6100000010
Human Resources. JobCandidate (13)	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE6100000010
Human Resources.Shift (3)	10	250 Race Court	NULL	Bothell	79	98011	0xE6100000010
Person Addrees (19.614)	11	1318 Lasalle Street	NULL	Bothell	79	98011	0xE6100000010
Person Adde Show SQL script		5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE6100000010
Person.BusinessEntity (20,777)	13	9265 La Paz	NULL	Bothell	79	98011	0xE6100000010
Person.BusinessEntityAddress (19,614)	14	8157 W. Book	NULL	Bothell	79	98011	0xE6100000010
Person.BusinessEntityContact (909)	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE610000010
Person.ContactType (20)	16	40 Ellis St.	NULL	Bothell	79	98011	0xE6100000010
Person.CountryRegion (238)	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE6100000010
Person.EmailAddress (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE610000010
Person.Password (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE610000010
Person Person (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE610000010
Person.PhoneNumberType (3)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE610000010
Person, State Province (181)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE610000010
Production.BillOfMaterials (2,679)	23	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE610000010
Production.Culture (8)	24	80 Sunview Terrace	NULL	Duluth	36	55802	0xE610000010
Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73	75201	0xE610000010
Production.Illustration (5)	26	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE6100000010
>	<						3

Any particular row can also be scripted via context menu. By right click on the row, SQL script can be either shown or at once copied to clipboard.

X

		Axcient Direc	tRestore				
e Options Help							
<b>)</b>			Search in Pers	son.Address			
owse				-			
AdventureWorks2012_CS_Data.mdf	<ul> <li>AddressID</li> </ul>	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
in Tables (71)	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE6100000100
dbo.AWBuildVersion (1)	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE610000010
dbo.DatabaseLog (1,597)	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE610000010
dbo.ErrorLog (0)	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE610000010
Human Resources. Department (16)	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE610000010
Human Resources. Employee (290)	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE610000010
Human Resources. Employee Department	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE610000010
Human Resources. Employee PayHistory	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE610000010
Human Resources. JobCandidate (13)	9 🥟	10740 V		Bothell	79	98011	0xE6100000010
Human Resources. Shift (3)	10	Copy SQL script to clipb	oard	Bothell	79	98011	0xE610000010
Person.Address (19,614)	11	Show SQL script		Bothell	79	98011	0xE610000010
Person.AddressType (6)	12	Search for similar data		Bothell	79	98011	0xE610000010
Person.BusinessEntity (20,777)	13			Bothell	79	98011	0xE610000010
Person.BusinessEntityAddress (19,614)	14	Search for data related to	o [AddressID]	Bothell	79	98011	0xE610000010
Person.BusinessEntityContact (909)	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE610000010
Person.ContactType (20)	16	40 Ellis St.	NULL	Bothell	79	98011	0xE610000010
Person.CountryRegion (238)	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE610000010
Person.EmailAddress (19,972) Person.Password (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE610000010
Person.Password (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE610000010
Person, Person Phone (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE610000010
Person Phone Number Type (3)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE610000010
Person.StateProvince (181)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE610000010
Production.BillOfMaterials (2,679)	23	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE610000010
Production.Culture (8)	24	80 Sunview Terrace	NULL	Duluth	36	55802	0xE610000010
Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73	75201	0xE610000010
Production.Illustration (5)	✓ 26	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE6100000010
>	<						)

Rows filtering provides the ability to easily find specific values in tables. To enable filtering, just start typing necessary data, when focus is on the list or press **Ctrl+F** keys. Please note that rows filtering works only for rows that was already loaded in current view.

X		Axcient [	DirectRestore				- 🗆 🗙
File Options Help							
			Search in	Person.Address			٦
Browse							
	AddressID	AddressLine1	AddressLin	ne2 City	StateProvinceID	PostalCode	SpatialLocation
🕂 📄 Programmability (4)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE6100000010C034
<b>Tables</b> (71)	46	5669 Ironwood Way	NULL	Kenmore	79	98028	0xE6100000010C76A
dbo.AWBuildVersion (1)	55	591 Merriewood Drive	NULL	Snohomish	79	98296	0xE6100000010C104
dbo.DatabaseLog (1,597) dbo.ErrorLog (0)	61	7726 Driftwood Drive	NULL	Monroe	79	98272	0xE6100000010CC44
Human Resources. Department (16)	77	9693 Mellowood Stree	t NULL	Duvall	79	98019	0xE6100000010C2D6
Human Resources. Employee (290)	86	390 Ridgewood Ct.	NULL	Camation	79	98014	0xE6100000010C8B7
Human Resources.Employee Department							
Human Resources. Employee PayHistory							
Human Resources JobCandidate (13)							
Human Resources. Shift (3)							
Person.Address (19,614)							
Person.AddressType (6)							
Person.BusinessEntity (20,777)							
Person.BusinessEntityAddress (19,614)							
Person.BusinessEntityContact (909)							
Person.ContactType (20)							
Person CountryRegion (238)							
Person.EmailAddress (19,972)							
Person, Person (19,972)							
Person Person Phone (19.972)							
Person.PhoneNumberType (3)							
Person, StateProvince (181)							
Production.BillOfMaterials (2,679)	woo		Where: All	~			T
Production.Culture (8)			111010.74	•			•
Production.Document (13)	Filter: o	n Select filte	ered items				
Production.Illustration (5)	V						
< >	<						>
Completed							.::

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## 4.1.2 Using search

Axcient DirectRestore provides several ways to search for data:

- Standard search
- Search for related data
- SQL Query search

To access the Search tool, select a table where the search will be performed and click on the Search Bar (1) located at the top of the window.

		Axcient Direct	tRestore				
ïle Options Help							
<b>≩</b> □			Search in Pers	son.Address			
Browse							
	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
Programmability (4)	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE6100000010C
	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE610000010C
dbo.AWBuildVersion (1) dbo.DatabaseLog (1,597)	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE610000010C
dbo.ErrorLog (0)	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE6100000100
Human Resources. Department (16)	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE6100000100
Human Resources. Employee (290)	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE6100000100
Human Resources.Employee Department	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE61000000100
Human Resources. Employee Pay History	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE61000000100
	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE61000000100
Human Resources. Shift (3)	10	250 Race Court	NULL	Bothell	79	98011	0xE61000000100
Person.Address (19,614)	11	1318 Lasalle Street	NULL	Bothell	79	98011	0xE6100000100
Person.AddressType (6)	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE6100000100
Person.BusinessEntity (20,777)	13	9265 La Paz	NULL	Bothell	79	98011	0xE6100000100
Person.BusinessEntityAddress (19,614)	14	8157 W. Book	NULL	Bothell	79	98011	0xE61000000100
Person.BusinessEntityContact (909)	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE6100000100
Person.ContactType (20)	16	40 Ellis St.	NULL	Bothell	79	98011	0xE61000000100
Person.CountryRegion (238)	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE6100000100
Person.EmailAddress (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE61000000100
Person.Person (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE6100000100
Person Person Phone (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE6100000100
Person.PhoneNumberType (3)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE6100000100
Person.StateProvince (181)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE6100000100
Production.BillOfMaterials (2,679)	23	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE6100000100
Production.Culture (8)	24	80 Sunview Terrace	NULL	Duluth	36	55802	0xE610000010C
Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73	75201	0xE610000010C
	26	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE6100000100
>	<						>

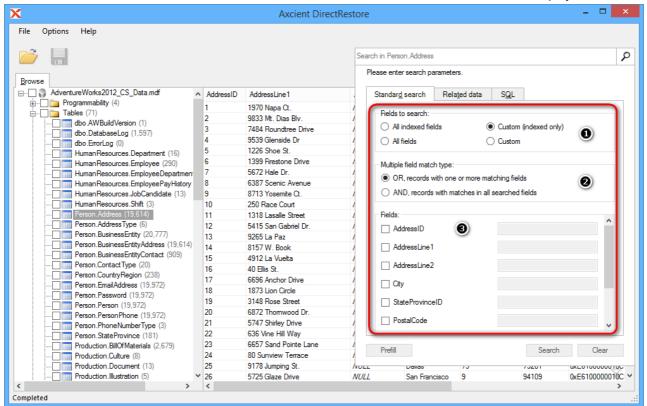
Search results will be displayed on separate tabs with the ability to select query results and export them either into Live SQL Server or in the form of SQL script files which can be executed on server manually.

		Axcient Dire	ctRestore				
e <u>O</u> ptions <u>H</u> elp							
<b>3</b>			Search in	Person.Ad	dress		
rowse Search 1 ×							
Person.Address	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE610000010CAE8BFC288
	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE6100000010CD6FA851A8
	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE6100000010C18E304C4A
	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE6100000010C813A0D5F9
	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE6100000010C61C64D8A8
	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE6100000010CE0B4E5045
	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE6100000010C18E304C4A
	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE6100000010C0029A5D93
	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE6100000010C6A80AD742
	10	250 Race Court	NULL	Bothell	79	98011	0xE6100000010C219D64AE1
	11	1318 Lasalle Street	NULL	Bothell	79	98011	0xE6100000010CCEFFBBFD
	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE6100000010C6A80AD742
	13	9265 La Paz	NULL	Bothell	79	98011	0xE610000010CC3228C086
	14	8157 W. Book	NULL	Bothell	79	98011	0xE6100000010C219D64AE1
	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE6100000010C219D64AE1
	16	40 Ellis St.	NULL	Bothell	79	98011	0xE6100000010CF76E45EFC
	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE6100000010C034C75E40
	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE6100000010C219D64AE1
	19	3148 Rose Street	NULL	Bothell	79	98011	0xE6100000010C813A0D5F9
	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE6100000010C034C75E40
	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE6100000010CEB9115FA9
	40	1902 Santa Cruz	NULL	Bothell	79	98011	0xE6100000010C96D19C3E4
	834	99300 223rd Southeast	NULL	Bothell	79	98011	0xE6100000010C5755A5215
	868	25111 228th St Sw	NULL	Bothell	79	98011	0xE6100000010C6552336E1
	18249	5509 Newcastle Road	NULL	Bothell	79	98011	0xE610000010C0029A5D93
	26486	7057 Striped Maple Court	NULL	Bothell	79	98011	0xE6100000010C034C75E40
	<						>

## Standard search mode

Х

To access Standard search click on the Search Bar and select 'Standard search' tab in the displayed window.



There are three sets of parameters to customize for this search:

### Fields to search (1)

This options defines the set of fields which will be used to perform search. The user can choose to search in all



indexed fields, all fields, custom selection from indexed fields or custom selection from all fields.

### Multiple field match type (2)

In case more than one field is selected for search the user can choose which logical operator will be used to combine these fields.

- OR search results will include records which have at least one field that matches search parameters.
- AND search results will include records which have matching values in all fields which were selected for search.

### Fields (3)

If *Custom (indexed only)* or *Custom* was selected in *Fields to search* the user will be able to choose fields which will be used for search. To select a field simply click on the field name, the field will then become selected and the user will be able to choose which comparison operator to use and to enter the value to search for.

There are also two ways to fill search fields with values from selected tow, which helps to avoid entering long string manually:

• Right-click on a row and select *Search for similar data* from context menu. This fill set the field selection to *Custom* and fill search from with values from selected row.

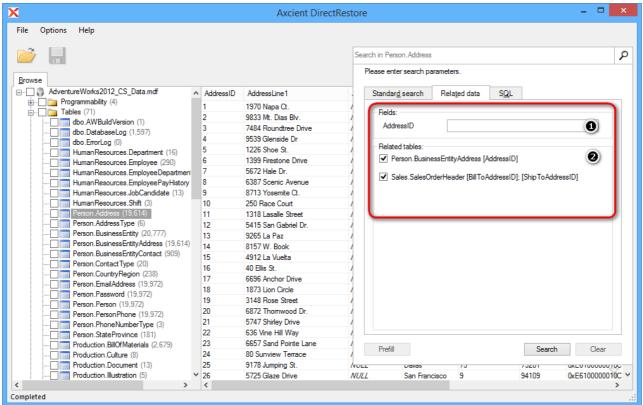
OR

• Select a row, then select Standard search tab and click Prefill button.

## Search for related data

Search for related data can be used to search for rows which relate to the selected row - that are rows which have fields from the selected table as foreign keys.

Related data search can be accessed either by right-clicking on a row and selecting *Search for data related to...* from context menu or by selecting *Related data* tab in search window.



The application will analyze the selected table and automatically detect which fields are used in other tables as foreign keys (1). It will also provide a list of tables which relate to the selected table (2).

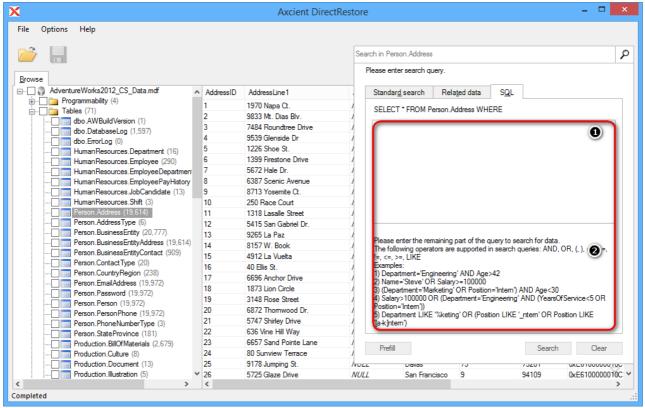
The user will then be able to enter field values which will be used when searching for related data and select from a list of tables where to perform search.

## SQL Query mode

Х

SQL Query search mode provides the ability to write complex search queries using SQL-like query language to narrow search results as much as possible.

SQL query mode can be accessed by clicking on Search Bar and selecting SQL tab.



The user is presented with a text field (1) which is used to enter search query. The beginning of the query is given and the user has to fill in the remaining part of WHERE clause.

The query may include field names, comparison operators, field values, logical operators and brackets. The text field makes it easier for entering search query by providing auto-complete feature, which automatically suggests possible query elements. The auto-complete window will appear automatically when first letters of query are typed, it can also be accessed by pressing **Ctrl+Space**. To select an item (field name, logical or comparison operator) from the list please press **Tab** or **Enter**.

Query examples are given at the bottom of the SQL tab (2).

## 4.2 Exporting items

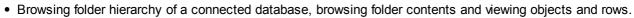
Axcient DirectRestore allow a user to export the whole database or just particularly objects (tables, views, functions, etc.) into live SQL Server and to SQL scripts, that can be used for manual import to a live server.

## 4.2.1 Restore to live SQL Server

Axcient DirectRestore includes the injection capability for items (tables, views, functions, etc.) from offline database and BAK file to live SQL database.

The following options are presented:

- Authentication
  - Connection to a database using valid credentials. To provide the connection, host (domain name or IP), user logon name and password are required. It is also possible to connect through current Windows credentials.
- Connecting to several tables on different servers simultaneously.



• To provide injection, running the application as administrator or using a machine from AD domain, in which there is SQL Server with destination database, is not required.

## **Connection to SQL Server**

Х

The mode, that allows connections to live server, is enabled by default. The Destination tab, as well as the ability to connect to live server, can be hidden from the Options menu.

	Axcient DirectRestore -									
•	Options Help									
~	Show notification panel						(approximate)			
	<ul> <li>Show progress dialog</li> </ul>	Search in P	erson.Address			8				
ow	<ul> <li>Allow connections to live servers</li> </ul>						Destination			
	Updates •	∧ AddressID	AddressLine1	AddressLine2	City	Stat ^	, d L			
ŧ	- Programmability (4)	1	1970 Napa Ct.	NULL	Bothell	79	No live servers connected.			
÷	Tables (71)	2	9833 Mt. Dias Blv.	NULL	Bothell	79	Connect to a live server to enable			
	dbo.AWBuildVersion (1)	3	7484 Roundtree Drive	NULL	Bothell	79	export of objects from source storage			
	dbo.DatabaseLog (1,597) dbo.ErrorLog (0)	4	9539 Glenside Dr	NULL	Bothell	79				
	dbo.ErrorLog (0) Human Resources.Department (16)	5	1226 Shoe St.	NULL	Bothell	79				
	Human Resources. Department (16)	6	1399 Firestone Drive	NULL	Bothell	79				
	Human Resources.Employee (200)	7	5672 Hale Dr.	NULL	Bothell	79				
	Human Resources. Employee PayHistory	8	6387 Scenic Avenue	NULL	Bothell	79				
	Human Resources. JobCandidate (13)	9	8713 Yosemite Ct.	NULL	Bothell	79				
	Human Resources. Shift (3)	10	250 Race Court	NULL	Bothell	79				
	Person.Address (19,614)	11	1318 Lasalle Street	NULL	Bothell	79				
	Person.AddressType (6)	12	5415 San Gabriel Dr.	NULL	Bothell	79				
	Person.BusinessEntity (20,777)	13	9265 La Paz	NULL	Bothell	79				
	Person.BusinessEntityAddress (19,614)	14	8157 W. Book	NULL	Bothell	79				
	Person.BusinessEntityContact (909)	15	4912 La Vuelta	NULL	Bothell	79				
	Person.ContactType (20)	16	40 Ellis St.	NULL	Bothell	79				
	Person.CountryRegion (238)	17	6696 Anchor Drive	NULL	Bothell	79				
	Person.EmailAddress (19,972)     Person.Password (19,972)	18	1873 Lion Circle	NULL	Bothell	79				
	Person.Password (19,972)	19	3148 Rose Street	NULL	Bothell	79				
	Person Person Phone (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79				
	Person.PhoneNumberType (3)	21	5747 Shirley Drive	NULL	Bothell	79				
	Person StateProvince (181)	22	636 Vine Hill Way	NULL	Portland	58				
	Production.BillOfMaterials (2.679)	23	6657 Sand Pointe Lane	NULL	Seattle	79				
	Production.Culture (8)	24	80 Sunview Terrace	NULL	Duluth	36				
	Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73				
	Production.Illustration (5)	✓ 26	5725 Glaze Drive	NULL	San Francisco	9. 4				
	>	<				>				

To establish a new connection, use the button **Connect to live server** (1), next to the Search field or go to **File->New connection->Attach to live SQL Server database** (2).

X		Axcient DirectRestore	- 🗆 🗙
Fil			0
	Open file Ctrl+C		
	Recent	P arch	
	Close file		Destantes
	Reload database using transaction logs		Destination
	New connection	Attach to live SQL Server database Ctrl+Q     2	No live servers connected.
	Search for files to open	fileserver.axcient.inc\DRSS_DBs\Testing\TestCases\msr\Sample\A	Connect to a live server to enable
	Save selected objects into SQL scripts Ctrl+S	ze: 188 Mb	export of objects from source storage.
	Export into live server Ctrl+E	ate: 5/21/2012	
	Cancel current operation Ctrl+N	ersion: SQL Server 2012	
	· · · · · · · · · · · · · · · · · · ·	ansaction logs not used.	
	Open log folder		
	Delete saved temp files and logs	L tables. Select a table to display records	
	Exit Alt+>	pad time: 00:00:02	
	Person.AddressType (6)		
	Person.BusinessEntity (20,777)		
	Person.BusinessEntityAddress (19,614)		
	Person Contact Type (20)		
	Person.CountryRegion (238)		
	Person.EmailAddress (19,972)		
	Person.Password (19,972)		
	Person.PersonPhone (19,972)		
	Person.PhoneNumberType (3)		
	Person.StateProvince (181)		
	Production.BillOfMaterials (2,679)	~	
	Production.Culture (8)		
	Production. Document (13)	< >>	
<	> · · · · · · · · · · · · · · · · · · ·	File info	
Com	pleted		

To access the server, enter the domain name or the IP address, or just click on the arrow (1) to get the dropdown list of automatically detected servers and provide valid credentials.

X Connect	to SQL Server ×
Server name (ex.: contoso.com\MSSQLSERVER or 192.1 WS2012SQL SQL2016ENTER WS2012SQL 	68.0.5\MSSQLSERVER):
<ul> <li>✓ Use current Windows credentials</li> <li>SQL Server login (ex.: user1):</li> <li>Password:</li> <li>Save password</li> </ul>	Please enter the server address and provide user credentials for connection. The application will then fetch the list of databases available on the target server. After that you will be able to choose the desired database from the list and connect.
Database name:	✓ Refresh
	Connect Cancel

List of available databases will be shown after clicking the **Refresh** button (1) or the arrow near the Database name field (2), if entered credentials are correct.

Х

X Connect to	SQL Server ×
Server name (ex.: contoso.com\MSSQLSERVER or 192.168. WS2012SQL Use current Windows credentials	0.5\MSSQLSERVER):
SQL Server login (ex.: user1): Rick Password: Save password	credentials for connection. The application will then fetch the list of databases available on the target server. After that you will be able to choose the desired database from the list and connect.
Database name: AdventureWorks2012	Connect Cancel

## Injection workflow

Х

Once data has been selected, click the Export button and select an Export option.

X		Axcient D	irec	tRestore		-	×
File Options Help							
Search in Person Address				کا ہے			-
Browse				Destination			E
AdventureWorks2012_CS_Data.mdf	∧ AddressID	AddressLine1 ^			AddressID	AddressLine1	Ad ^
Programmability (4)	1	1970 Napa Ct.		AdventureWorks2012	1	1970 Napa Ct.	NL
□····■ □ Tables (71)     □····· □ □ dbo.AWBuildVersion (1)	2	9833 Mt. Dias Blv.		Tables (71)	2	9833 Mt. Dias Blv.	NL
dbo.DatabaseLog (1,597)	3	7484 Roundtree Dri		dbo.AWBuildVersic	3	7484 Roundtree Drive	NL
db0.batabasetog (1,337)	4	9539 Glenside Dr			4	9539 Glenside Dr	NL
Human Resources. Department (16)	5	1226 Shoe St.		dbo.ErrorLog (0)	5	1226 Shoe St.	NL
Human Resources.Employee (290)	6	1399 Firestone Driv			6	1399 Firestone Drive	NL
Human Resources. Employee Departmen	7	5672 Hale Dr.		Human Resources.	7	5672 Hale Dr.	NL
	8	6387 Scenic Avenu		Human Resources.	8	6387 Scenic Avenue	NL
	9	8713 Yosemite Ct.		Human Resources.	9	8713 Yosemite Ct.	NL
Human Resources. Shift (3)	10	250 Race Court		Human Resources.	10	250 Race Court	NL
Person.Address (19,614)	11	1318 Lasalle Street		Human Resources.	11	1318 Lasalle Street	NL
Person.AddressType (6)	12	5415 San Gabriel D		Person.Address (1)	12	5415 San Gabriel Dr.	NL
Person.BusinessEntity (20,777)	13	9265 La Paz		Person Address Typ	13	9265 La Paz	NL
Person.BusinessEntityAddress (19,614)	14	8157 W. Book		Person.BusinessEn	14	8157 W. Book	NL
Person.BusinessEntityContact (909)	15	4912 La Vuelta		Person.BusinessEn	15	4912 La Vuelta	NL
Person.ContactType (20)	16	40 Ellis St.		Person.BusinessEn	16	40 Ellis St.	NL
Person CountryRegion (238)	17	6696 Anchor Drive		Person.Contact Typ	17	6696 Anchor Drive	NL
Person.EmailAddress (19,972)	18	1873 Lion Circle		Person EmailAddre	18	1873 Lion Circle	NL
Person.Person (19,972)	19	3148 Rose Street		Person Password (	19	3148 Rose Street	NL
Person Person Phone (19.972)	20	6872 Thomwood D		Person Person (19	20	6872 Thomwood Dr.	NL
Person.PhoneNumberType (3)	21	5747 Shirley Drive		Person Person Pho	21	5747 Shirley Drive	NL
Person.StateProvince (181)	22	636 Vine Hill Way		Person Phone Num	22	636 Vine Hill Way	NL
Production.BillOfMaterials (2,679)	23	6657 Sand Pointe L		Person.StateProvin	23	6657 Sand Pointe Lane	NL
Production.Culture (8)	24	80 Sunview Terrace		Production.BillOfMa	24	80 Sunview Terrace	NL
Production.Document (13)	25	9178 Jumping St.		Production.Culture	25	9178 Jumping St.	NL
Production.Illustration (5)	✓ 26	5725 Glaze Drive 💙		Production.Docum ¥	26	5725 Glaze Drive	WL Y
< >	<	>		< >	<		>
Completed				Select	ed: 1 object	(5)	.::

Axcient DirectRestore presents several injection modes for specified data:

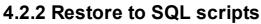
• Export to original object - The source object will be restored to the object listed under Destination Object.

• **Export to new Object** - The user may edit the *Destination Object* for any source object, and the Axcient DirectRestore application will create a new destination object to restore to.

Х

- Schema only Export only the schema of the source objects. The destination object can be edited and the schema(s) will be restored to the new destination object.
- Unselect successfully exported objects This will unselect the data objects that were selected for export once they have been successfully exported to the live server. This will allow the user to more easily identify which objects encountered errors and were not exported.

X	Export into live SQ	L Server	– 🗆 🗙
Destination database: WS2012SQL\AdventureWorks			*
Object names are valid. Click			
Source object	Destination object	Status	Action
[Person].[Address]	[Person].[Address]	🦋 Source table found	<u>Remove</u>
Export to original object (cre	ate if not exists) O Export to new object	○ Schema only	
Unselect successfully expor	ted objects	Start	Cancel



Х

To save objects marked for export, click the **Export selected objects into SQL scripts** button on the toolbar or select the point in the **File** menu.

		Axcient Direc	tRestore				- 🗆 ×
ile Options Help							
			Search in Per	son.Address			۶
Browse MoventureWorks2012_CS_Data.mdf	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
🗄 ··· 🗋 🛅 Programmability (4)	1				79		
🚊 🔳 🛅 Tables (71)	1	1970 Napa Ct.	NULL	Bothell		98011	0xE6100000010C.
dbo.AWBuildVersion (1)	2	9833 Mt. Dias Blv. 7484 Roundtree Drive	NULL	Bothell	79 79	98011 98011	0xE6100000010C
dbo.DatabaseLog (1,597)	4	9539 Glenside Dr	NULL	Bothell Bothell	79	98011	0xE6100000010C 0xE6100000010C
dbo.ErrorLog (0)	5	1226 Shoe St.	NULL		79		
Human Resources.Department (16)	6	1399 Firestone Drive	NULL	Bothell Bothell	79	98011 98011	0xE6100000010C 0xE6100000010C
Human Resources.Employee (290)	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE6100000010C
	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE6100000010C
	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE6100000010C
Human Resources. Job Candidate (13)	10	250 Race Court	NULL	Bothell	79	98011	0xE6100000010C
Person.Address (19,614)	11	1318 Lasalle Street	NULL	Bothell	79	98011	0xE6100000010C
Person.AddressType (6)	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE6100000010C
Person.BusinessEntity (20,777)	12	9265 La Paz	NULL	Bothell	79	98011	0xE6100000010C
Person.BusinessEntityAddress (19,614)	13	9265 La Paz 8157 W. Book	NULL	Bothell	79	98011	0xE6100000010C
Person.BusinessEntityContact (909)							
Person.ContactType (20)	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE6100000010C
Person.CountryRegion (238)	16	40 Ellis St.	NULL	Bothell	79	98011	0xE6100000010C
Person.EmailAddress (19,972)	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE6100000010C
Person.Password (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE6100000010C
Person.Person (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE6100000010C
Person.PersonPhone (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE6100000010C
Person.PhoneNumberType (3)	21 22	5747 Shirley Drive 636 Vine Hill Way	NULL	Bothell Portland	79 58	98011 97205	0xE6100000010C 0xE6100000010C
Person.StateProvince (181)	22	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE6100000010C
Production.BillOfMaterials (2,679)		80 Sunview Terrace		Duluth		55802	
Production.Culture (8)	24 25		NULL	Duluth Dallas	36 73	75201	0xE6100000010C
Production.Document (13)     Production.Illustration (5)		9178 Jumping St.					0xE6100000010C
Froduction.lilustration (5)	✓ 26 <	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE610000010C
mpleted					1		
•					elected: 1 object(s)		
start exporting process, select	destina	ation folder or cre	eate a new	one and c	lick OK.		
Select o	lestina	tion folder		×			
50,000		controlaci					
		÷					
Selected data will be saved into SQ							
destination folder or create a new or	ne and cli	ck OK. The export p	rocess will sta	art			
immediately.							
Documents							
Devent 1							
📕 Downloads							
Favorites							
💦 Links							
Music							

Required time depends on how many objects are selected for export. By default, a progress window appears after the export starts. The window shows the number of saved objects and rows (1). You can disable the progress window directly in the window or go to the **Options** menu and select **Show progress dialog**. The export can be cancelled by clicking an appropriate link in the progress dialog window (2) or by clicking the Cancel export button on the taskbar (3).

OK

Cancel

Pictures
 Saved Games
 Searches
 Videos

Make New Folder

		Axcient Direc	tRestore				
e Options Help							
			Search in Pe	rson.Address			
rowse							
	Addrees		Addrees ine?	City	StateProvinceID	PostalCode	SpatialLocation
Programmability (4)		Progre	SS		79	98011	0xE610000010C
					79	98011	0xE610000010C
dbo.AWBuildVersion (1)	-				79	98011	0xE610000010C
····· ✓ dbo.DatabaseLog (1,597) ····· ✓ dbo.ErrorLog (0)	Expor	ting objects 94%			79	98011	0xE6100000010C
Human Resources. Department (16)	-				79	98011	0xE6100000010C
Human Resources.Employee (290)	Table				79	98011	0xE6100000100
Human Resources. Employee (200)	Index				79	98011	0xE6100000100
Human Resources. Employee Pay History	Const	raints 71			79	98011	0xE61000000100
Human Resources. Job Candidate (13)	Types	6			79	98011	0xE61000000100
Human Resources. Shift (3)	Rows	716,922			79	98011	0xE61000000100
Person Address (19,614)	Read	speed 459 KB/s			79	98011	0xE61000000100
Person.AddressType (6)	Elaps	ed time 00:01:33			79	98011	0xE61000000100
Person.BusinessEntity (20,777)					79	98011	0xE61000000100
Person. Business Entity Address (19,614)					79	98011	0xE61000000100
Person.BusinessEntityContact (909)					79	98011	0xE61000000100
Person.ContactType (20)		current operation			79	98011	0xE61000000100
Person.CountryRegion (238)	Cance	current operation			79	98011	0xE61000000100
Person.EmailAddress (19,972)	✓ SI	now the dialog next time		Close	79	98011	0xE61000000100
Person.Password (19,972)					79	98011	0xE6100000010C
Person.Person (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE61000000100
Person Person Phone (19,972)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE61000000100
Person.PhoneNumberType (3)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE61000000100
Person.StateProvince (181) Production.BillOfMaterials (2,679)	23	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE61000000100
Production.BillOrMaterials (2,675)	24	80 Sunview Terrace	NULL	Duluth	36	55802	0xE61000000100
Production.Couldre (6)	24	9178 Jumping St.	NULL	Dallas	73	75201	0xE61000000100
	✓ 26	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE61000000100
	<	ST25 GIG20 DIVE	NOLL	San nancisco	3	34103	0x20100000100

### Тір

Х

If you closed the progress window, it can be shown again by clicking on the progress bar on the status panel.

## **Restoring exported scripts into SQL Server**

SQL scripts exported from the offline database can be easily imported into live SQL Server manually For this purpose a special bat-file, commit.bat, is generated while extracting data. It is stored in the folder with restored scripts.

Usage for trust connection: commit.bat server\_name db\_name Usage for mistrust connection: commit.bat server\_name db\_name user\_name password

## 5 Axcient DirectRestore. Exchange Server

## **5.1 Special features**

Usage of Axcient DirectRestore can be more comfortable for a user due to additional **Options** menu, which allows user to customize program work.

Detailed information about every option is described in this help section.

#### Note

PST encoding and Show deleted items options are not available for PST/OST files.

## 5.1.1 PST encoding

Х

Exporting mail store data into PST allows to select a PST format that suits your version of Microsoft Outlook. Outlook 2003, Outlook 2007, Outlook 2010 and Outlook 2013 process both Unicode and ANSI PST files, but as for older versions of Outlook, they will not be able to open Unicode formatted PST files. Previous versions of Outlook were using only ANSI format. The main reason for this change was to allow for international character support and to extend the maximum size of PST files beyond the 2GB limit of the ANSI formatted PST files. In Axcient DirectRestore there are two ways to select suitable encoding for output PST.

Output PST encoding can be changed while selecting a destination folder for restored PST files.

Select destination folder	×
Selected data will be saved into .pst file(s). To start the export select the destinati folder or create a new one and click OK. The export process will start immediately	
A 🍌 Recovered	^
CLIENT-PC	
Recovered_session1	
Recovered_session2	
Recovered_session3	
Recovered_session4	
Recovered_session5	
Recovered_session6	
D TestComplete Testplans	*
PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013)	7
Make New Folde ANSI (Microsoft Outlook 2003, 2007, 2010 and 2013) Make New Folde ANSI (Microsoft Outlook 2002 and earlier)	

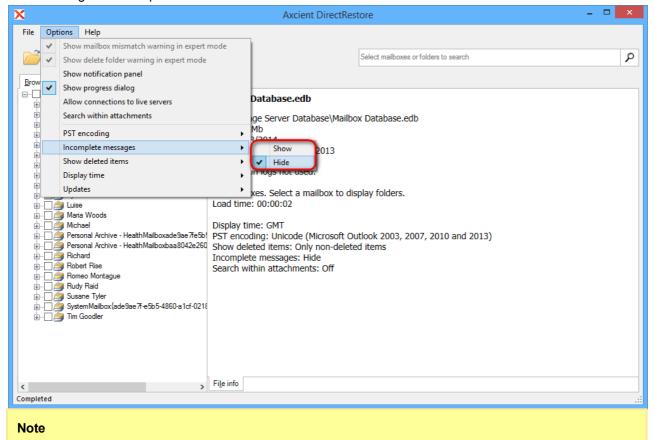
Alternatively, encoding for the output file can be changed in the **Options** menu at any time the program runs. Selected value will be saved and used on the next program launch.

X		Axcient DirectRestore	- 🗆 🗙
File	Show progress dialog     Allow connections to live server     Search within attachments     PST encoding     Incomplete messages     Show deleted items     Display time     Updates     Luise     Mana Woods     Michael     Personal Archive - HealthMailboxz     Robard Archive - HealthMailboxz     Robard Rise     Robard Rise     Robert Rise     Robert Rise     Rudy Raid     SystemMailbox(ade9ae7r-e5b5-48	ng in expert mode       Select mailboxes or folders to search         rs       Database.edb         ge Server Database\Mailbox Database.edb         Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013)         ANSI (Microsoft Outlook 2002 and earlier)         n logs not used.         xes. Select a mailbox to display folders.         Load time: 00:00:04         Display time: GMT         PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013)         Show deleted items: Only non-deleted items         Incomplete messages: Hide         Search within attachments: Off	_ □ ×
< Comple	eted	> File info	

### 5.1.2 Incomplete messages

Х

Incomplete messages, such as messages with missing properties, bodies, are hidden by default. This option can be changed in the Options menu.



After changing the way of displaying incomplete items, the database will be reopened

### 5.1.3 Showing deleted items

Х

Axcient DirectRestore provides an ability to process deleted items and folders.

This special feature can be enabled via the Options menu. There are three available display modes:

- non-deleted items displays actual items in folders;
- show only deleted items displays items/folders deleted from a mailbox hierarchy, but not physically ;
- show both deleted and non-deleted items displays both actual items in folders and items/folders deleted from a mailbox hierarchy.

Note that after selecting any way of processing deleted items, the database will be reopened.

Items, deleted from Exchange Server 2010 and 2013 databases, are stored in the folder Deletions and have an appropriate type.

٢			Axcient DirectR	estore			×
File Options Help							
				Search	in Andrew Wait		ρ
Browse							
		Ø	Subject	From	То	Created	
	at 🗌 🗍		JESSICA I am sony thou	Dalia	Romeo Montague; Tim Goodler; Maria	Thursday, August 16, 2012 3:00:17	Α
ia			ABHORSON Do you call	Michael	Andrew Wait; Susane Tyler; Juliet Cap	Thursday, August 16, 2012 3:00:12	Α.
Calendar (0)	$\sim$						
Deleted Items (0)							
Deletions (2)							):17 A
Drafts (0)							
Journal (0)							
🔲 🚞 Junk E-Mail (0)							
Notes (0)							
Outbox (0)							
Sent Items (0)							
🟹 Tasks (0)							
🗄 🖳 🚔 Andy Kort							
🗄 ··· 🗌 🎒 Brian							
🗄 🗌 🔔 Dalia							
👜 🗌 🚔 John							
ia							
⊪ jage Luise ⊪ jage Maria Woods							
iteriden iteri							
🗄 🗋 🎽 Rudy Raid	~						1
x	<						E
mpleted							

As for items deleted from Exchange Server 2007 databases, they are stored in the their original folders but can be easily recognized by an appropriate status.

### Note

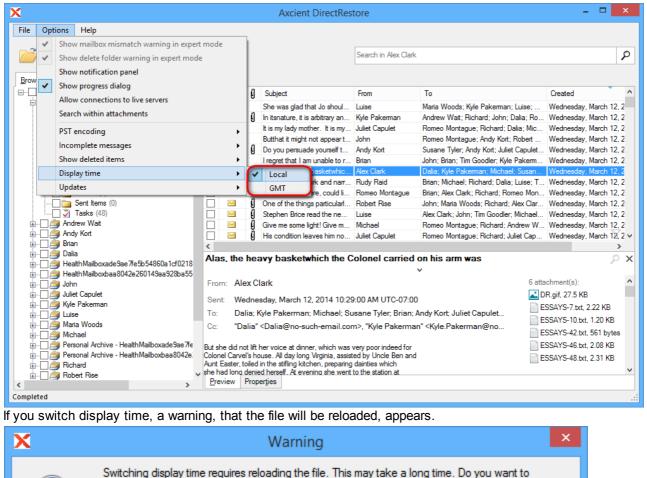
Items, stored in the folder Deletions, cannot be recovered to live Exchange Server database. It is recommended to restore items from the Deletion folder to PST and then import to live Exchange Server.

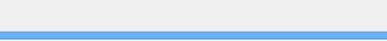
## 5.1.4 Display time

Х

There are two dates display formats available for users, local time and GMT.

To switch dates display format between local computer time and GMT, use the Options menu.





A message in GMT format looks the following way:

continue?

No

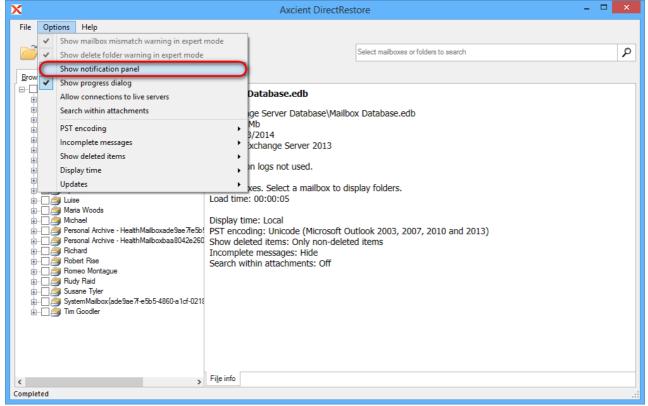
Yes

			Axcient DirectRes	tore		
ile Options Help						
2				Search in Alex Clark	c	
Browse						
Mailbox Database.edb	∧ □ Typ	e (i	Subject	From	То	Created
🖕 🖳 🚔 Alex Clark		4	She was glad that Jo shoul	Luisa	Maria Woods; Kyle Pakeman; Luise;	Wednesday, 12 Mar 201
Calendar (438)		-	In itsnature, it is arbitrary an		Andrew Wait; Richard; John; Dalia; Ro	41
<u>8</u> Contacts (45)		- 0	It is my lady mother. It is my		Romeo Montague; Richard; Dalia; Mic	
Deleted Items (25)		3	Butthat it might not appeart		Romeo Montague; Andy Kort; Robert	•
🖸 🔯 Deletions (0)		_	Do vou persuade vourself t		Susane Tyler: Andy Kort: Juliet Capulet	
Drafts (0)		- 0	I regret that I am unable to r		John; Brian; Tim Goodler; Kyle Pakem	41
			Alas, the heavy basketwhic		Dalia: Kyle Pakeman: Michael: Susan	
		- 0	He went up a dark and narr		Brian; Michael; Richard; Dalia; Luise; T.	1 · · · · · · · · · · · · · · · · · · ·
Notes (40)			Noone, even there, could li		Brian: Alex Clark: Richard: Romeo Mon.	
		_	One of the things particular		John: Maria Woode: Piebade Alex Clar	
Sent Items (0)		- 0	Stephen Brice read the ne		Alex Clark; John; Brian; Alex Clark; Rich	hard; Romeo Montague; An
Tasks (48)		- 0	Give me some light! Give m		Romeo Montague: Richard: Andrew W.	
H Carlo (10)			His condition leaves him no		Romeo Montague; Richard; Juliet Cap	
🗑 🖳 🏂 Andy Kort	<	9 8	his condition leaves him ho	Juliet Capulet	Romeo Montague, Richard, Juliet Cap	. wednesday, 12 Mar 201
🗄 🦳 ُ Brian					His	
🖥 🦳 🎽 Dalia	Alas, 1	the hea	wy basketwhich the C	colonel carried	on his arm was	2
🗄 🔲 🧃 Health Mailboxade 9ae 7fe 5b 54860a 1 cf 0 2 1	3				×	
	5 From:	Alex Cl	ark		6 att	tachment(s):
🛓 🗌 🎒 John	Sent	Wedne	sday, 12 Mar 2014 17:29:00	CMT		DR.gif, 27.5 KB
🗄 🗌 🎒 Juliet Capulet						ESSAYS-7.txt. 2.22 KB
🗄 🗌 🎒 Kyle Pakeman	To:	Dalia; K	yle Pakerman; Michael; Su	usane Tyler; Brian;	Andy Kort; Juliet Capulet	ESSAYS-10.txt. 1.20 KB
🗄 🖳 🎒 Luise	Cc:	"Dalia"	<dalia@no-such-email.cor< td=""><td>m&gt;, "Kyle Pakerma</td><td>an" <kyle.pakerman@no< td=""><td></td></kyle.pakerman@no<></td></dalia@no-such-email.cor<>	m>, "Kyle Pakerma	an" <kyle.pakerman@no< td=""><td></td></kyle.pakerman@no<>	
🔬 🗌 🧾 Maria Woods						ESSAYS-42.txt, 561 bytes
🗄 🗌 🎒 Michael			ner voice at dinner, which was			ESSAYS-46.txt, 2.08 KB
Personal Archive - HealthMailboxade9ae7			use. All day long Virginia, assist in the stifling kitchen, preparing		1 📋 I	ESSAYS-48.txt, 2.31 KB
Personal Archive - Health Mailboxbaa 8042			n the stifiing kitchen, preparing d herself. At evening she went			
i	Dentin					
mpleted	_		-			

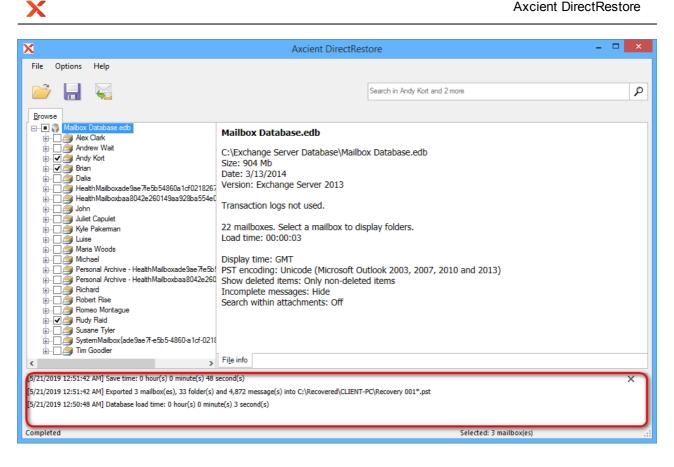
## 5.1.5 Showing notification panel

Х

Every program action is accompanied by an appropriate notification for user. Notification panel is disabled by default, but can be easily enabled by checking **Show notification panel** in the **Options** menu.



After that user will see additional information about opening file, export results, search results, etc.





Axcient DirectRestore provides two mutually complementary modes of finding, previewing and selecting items: browsing the mailbox tree and search. Using these, it is possible to efficiently form a set of items for subsequent export, including the necessary ones and excluding ones to be skipped.

A newly opened database is shown in the **Browse** mode.

Х

## 5.2.1 Browsing mail store tree

Browse mode shows mail store in a tree-like structure and allows browsing folders and previewing individual items.

This mode is best for navigating to specific mailboxes, folders and messages when it is precisely known what data needs to be extracted.

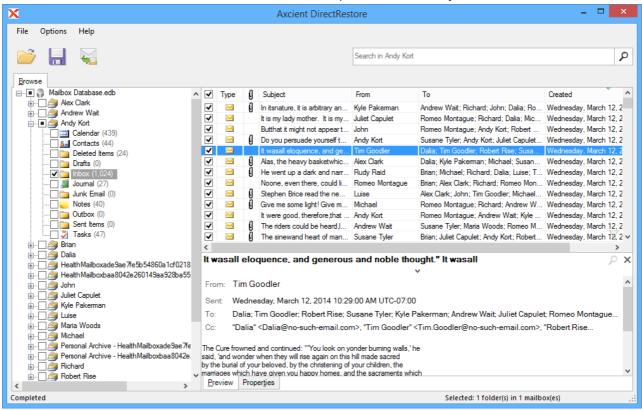
For example, a user may ask to restore a specific message from a known folder. Expand his or her mailbox in the tree, select the folder, find and click the item. All available properties and information about the item will be displayed in the **Preview** window to the right of the tree.

C		Axcient Direc	ctRestore		
File Options Help					
📂 🔒 😼			Search in An	ndy Kort	\$
Presser					
Browse		0.11.1	-		
ia	^ <b>•</b> 0		From	То	Created
	🗌 🖂 🚺	In itsnature, it is arbitrary an	Kyle Pakerman	Andrew Wait; Richard; John; Dalia; Ro	. Wednesday, 12 Mar 2014 17:25
in Andy Kot		It is my lady mother. It is my	Juliet Capulet	Romeo Montague; Richard; Dalia; Mic	Wednesday, 12 Mar 2014 17:25
Calendar (439)		Butthat it might not appear t	John	Romeo Montague; Andy Kort; Robert	Wednesday, 12 Mar 2014 17:25
S. Contacts (44)	🗌 🖂 🚺	Do you persuade yourself t	Andy Kort	Susane Tyler; Andy Kort; Juliet Capulet	. Wednesday, 12 Mar 2014 17:29
Deleted Items (24)		It wasall eloquence, and ge	Tim Goodler	Dalia; Tim Goodler; Robert Rise; Susa	Wednesday, 12 Mar 2014 17:29
	🗌 🖂 🔒	Alas, the heavy basketwhic	Alex Clark	Dalia; Kyle Pakerman; Michael; Susan	Wednesday, 12 Mar 2014 17:29
Inbox (1,024)	V 🖂 🖞	He went up a dark and narr	Rudy Raid	Brian; Michael; Richard; Dalia; Luise; T	. Wednesday, 12 Mar 2014 17:29
		Noone, even there, could li	Romeo Montague	Brian; Alex Clark; Richard; Romeo Mon	. Wednesday, 12 Mar 2014 17:29
Junk Email (0)	A	Stephen Brice read the ne	Luise	Alex Clark; John; Tim Goodler; Michael	Wednesday, 12 Mar 2014 17:28
Notes (40)	🗌 🖂 🕺	Give me some light! Give m	Michael	Romeo Montague; Richard; Andrew W.,	
Outbox (0)		It were good, therefore, that		Romeo Montague; Andrew Wait; Kyle	
Sent Items (0)				Susane Tyler; Maria Woods; Romeo M	••
Tasks (47)	1 I I I I I I I I I I I I I I I I I I I			Brian; Juliet Capulet; Andy Kort; Robert	
🕀 🖳 🚔 Brian	<	The sheward rear of mar		bilan, dalier capaler, renay horr, hobert	> Wearloaday, 12 Mar 2014 1320
🗄 🗌 🊎 Dalia			, atala inta alla	hted hall with shrouded window	
🛓 🗌 🊈 Health Mailboxade 9ae 7fe 5b 54860a 1cf 0218	rie wer	it up a dark and narrow	v stair into alig	nted hall with shrouded windo	· · · · · · · · · · · · · · · · · · ·
🛓 🗆 📄 Health Mailboxbaa 8042e 260 149aa 928ba 55	From:	Rudy Raid		Ŷ	3 attachment(s):
🗄 🗌 🎒 John	Cart 1	Wednesday, 12 Mar 2014 17	7-20-00 CMT		ESSAYS-6.txt, 1.00 KB
🛓 🖳 🚔 Juliet Capulet					ESSAYS-47.txt. 1.10 KB
🛓 🗆 🔤 Kyle Pakerman	To:	Brian; Michael; Richard; Dal	ia; Luise; Tim Goo	dler; Alex Clark; Kyle Pakerman	ESSAYS-48.txt, 2.31 KB
🗄 🗋 🞒 Luise					E33A13-46.00, 2.31 ND
🖶 🗆 🧀 Maria Woods		e a rain-sodden night when a my			
🖶 🖳 🎒 Michael		use in Olive Street. Both anxiety s as they followed her son out of			
🕀 🗌 🎒 Personal Archive - HealthMailboxade9ae7fe		men were lounging on the come			
Personal Archive - HealthMailboxbaa8042e:	him listessly	/as he passed. He went up a da	ark and narrow stair in	nto a	
🗄 💭 🎒 Richard		with shrouded windows. Men wi			
i≟ ☐ 🚔 Robert Rise		Properties	ar was that a dwind m	un 20/	
×	-			Selected: 1 item(s) in 1 r	

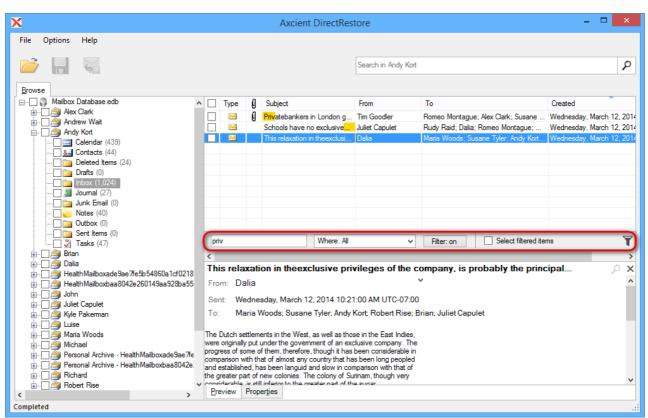
There is a check box next to the message. Check it to mark the message for export.

Continue to mark other items, folders and mailboxes for export in a similar way.

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Use filtering feature for better browsing the list of items in a folder. Enable filtering by pressing **Ctrl+F** keys. A special panel will appear in the right part of the program window.



Use search in preview feature for quick find text in item preview.

Enable search in preview by pressing **Ctrl+D** keys after opening preview of item. A special panel will appear in the right part of the program window.

	Axcient DirectRestore	
le Options <u>H</u> elp	Search in Andy Kort	- <b>•</b>
rowse		Destination
Malbox Database.edb           Alex Clark           Andrew Wat           Andrew Wat           Calendar (439)           Calendar (439)           Deted Items (24)           Deted Items (24)           Journal (27)           Journal (27)           Journal (27)           Journal (27)           Sent Items (0)           Sent Items (0)           Sent Items (0)           Brian           Dalia           HealthMailboxade9ae7re5b54860a1cf021           John           John           John           John           Personal Archive - HealthMailboxade9ae7re5b54860a1cf021	Give me some ligh! Give me some ligh!       ×         From: Michael       7 attachment(s):         Sent: Wednesday, March 12, 2014 10:29:00 AM UTC       ESSAYS-2.bt.         To: "Romeo Montague" <romeo.montague@no< td="">       ESSAYS-1.bt.</romeo.montague@no<>	No live servers connected. Connect to a live server to enable export of objects from source storage.
Personal Archive - HealthMailboxbaa8042     Rchard     Robert Rise	Ham. He poisons him i'th' garden for's estate. His name's Gonzago. ESSAYS-43.btt The story is extant, and written in very choice Italian. You shall see anon how the mutherer cets the love of Gonzago's write Proview Properties	
npleted		

### Тір

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Each individual item, folder and mailbox has a check box next to it. Using these check boxes, it is possible



to select as many or as few items for export as necessary.

To export an entire

- mail store, mark the root check box with the mail store name.
- mailbox, mark the check box next to mailbox in the tree.
- folder, expand a mailbox and mark the check box next to the desired folder.

### 5.2.2 Using search

The search in the main window provides the ability to search single or multiple mailboxes and perform actions on the search results.

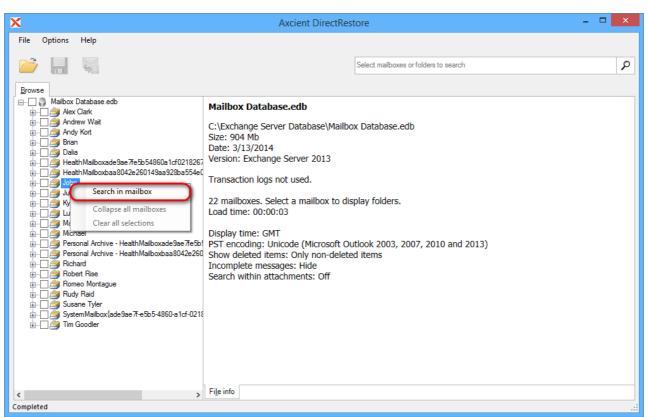
The best application of search mode is when the location and/or number of items to extract is not known exactly. Using keyword search, it is possible to narrow down on specific messages, folders and mailboxes. The quickest way to get search results is clicking on a particular mailbox, entering some keywords in the **Search** field and clicking the button **Start search**.

Search results will be displayed on a separate tab.

		Axcient D	nec	INESIOIE		
ile Options Help						
i 📄 🔛				Search in user-defined	l locations: wait	
						I
Browse Search: «wait» (977) 🗙						
	Type	Location	Ø	Subject	From	То
🚊 🗋 🎒 Alex Clark (977)		\Alex Clark\Calendar		I would revenges,	Andrew Wait	Andrew Wait; Dalia; Susane Tyler; Mar
Calendar (274)		\Alex Clark\Calendar		-	Robert Rise	Robert Rise; Romeo Montague; Brian;
<u>8</u> Contacts (1) Deleted Items (16)		\Alex Clark\Calendar			Michael	Michael; Robert Rise; Romeo Montagu
		\Alex Clark\Calendar			Andy Kort	Andy Kort; Dalia; Romeo Montague; Jo
Tasks (1)		\Alex Clark\Calendar		l will	Andrew Wait	Andrew Wait; Richard; Andy Kort; Tim
		\Alex Clark\Calendar		[Floulish]	Romeo Montague	Romeo Montague; Dalia; Richard; Mic
		\Alex Clark\Calendar		And under these	Robert Rise	Robert Rise; Kyle Pakerman; Romeo
		\Alex Clark\Calendar		High-stomach'd are they	Dalia	Dalia; Romeo Montague; Maria Woods
		\Alex Clark\Calendar		If thou	Brian	Brian; Romeo Montague; John; Andre
		\Alex Clark\Calendar			Kyle Pakeman	Kyle Pakerman; Alex Clark; Maria Woo
		\Alex Clark\Calendar		But as that	Luise	Luise; Dalia; Andrew Wait; Juliet Capul
		\Alex Clark\Calendar		"Rather	Rudy Raid	Rudy Raid; Alex Clark; Michael; Rome
		\Alex Clark\Calendar	Ø		Alex Clark	Juliet Capulet; Tim Goodler; Michael; B
		\Alex Clark\Calendar	Ū	However thenigger got	Luise	Luise; Brian; Michael
		\Alex Clark\Calendar		Richard not	John	John; Richard; Susane Tyler; Maria W
		\Alex Clark\Calendar		How	Juliet Capulet	Juliet Capulet; Andrew Wait; Alex Clark
		\Alex Clark\Calendar		His head seemed	Tim Goodler	Tim Goodler; Susane Tyler; Kyle Paker
		\Alex Clark\Calendar			Maria Woods	Maria Woods; Alex Clark; Luise; Andre
		\Alex Clark\Calendar			Juliet Capulet	Juliet Capulet; Richard; Andrew Wait;
		\Alex Clark\Calendar		But, good	John	John; Andy Kort; Susane Tyler; Robert
		\Alex Clark\Calendar		-	Alex Clark	Brian; Tim Goodler; Alex Clark; Luise; A
		\Alex Clark\Calendar		you whoreson malt-horse	Susane Tyler	Susane Tyler; Romeo Montague; Luise
		\Alex Clark\Calendar		So,frequently, the Society	Robert Rise	Robert Rise; Andrew Wait; Kyle Paker
		\Alex Clark\Calendar		Butthis	Maria Woods	Maria Woods; Romeo Montague
	<					
	1	Page 1 of 10 🕨 🕨	1.0	5		100 messages per p

If a user knows exactly in what mailbox or folder the data is located, using **Search in mailbox option** will speed up the search.

Right-click on a folder/a mailbox will open a context menu.



By clicking on this menu advanced mode of search dialog will be opened and **Search in** field will be filled with the selected mailbox/folder.

Fill in necessary search parameters and start the search.

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For more precise searches click on the Search field, drop-down list of all search fields will appear:

• Search in - specifies mailbox(es)\folder(s) to search in. Default: entire database. If you select one or more Search in check boxes, but specify no additional search criteria, the utility will return all items from the selected folder(s).

Search in	×
🖃 📲 🌍 Mailbox Database.edb	^
🗄 🗌 🎒 Alex Clark	
👜 🖳 🚔 Andrew Wait	
🚋 🔽 🚑 Andy Kort	
🖕 🔲 🎒 Brian	
Calendar (444)	
Deleted Items (28)	
Drafts (0)	
Journal (27)	
in Junk Email (0)	
🖌 Tasks (47)	
ia Health Mailboxbaa 8042e260149aa 928ba 554e 009d7d3	
ig john	
ia	
ia	
ia ∰ Luise ia A Maria Woods	
ie	~
Include mailboxes that are expanded, have items selected or were searched before	
OK Ca	ancel

- Has words search for mail store items that have words or phrases entered in the field.
- Doesn't have search for items that do not have words or phrases entered in the field.
- Has attachments search for items with attachments.
- From search for keywords in the From: field.
- To search for keywords in the To: field.
- Subject search for keywords in subject.
- **Date range** set specific date range if known. It is obligatory to set both the beginning and the end of the desired time period.

The outcomes of a search can be:

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1. The program was able to find items (1) that corresponds to specified search parameters (2). The user can select separate items or mark search results for recovery.

Clicking an item in the search results tab will open the item preview. Selecting item(s) in search results will make their recovery possible.

X	Axcient DirectRestore	- 🗆 🗙
File Options Help		
📂 🔒 🤘	Search in user-defined locations: from:(Andr	rew) has:attachment wait
Browse Search: «from:(Andrew) has:at» (96) ×	Search in Alex Clark; Andrew Wait; /	Andy Kort; Brian
iania (20) Search: «from:(Andrew) has:at» (96) iania (20) Alex Clark (20)	Type Location () S Andy Kort\Inbox () Tr	
		are expanded, have items selected or were
Inbox (18)	Image: With any line words         Image: Imag	
Inbox (19)	🖂 \Andy Kort\Inbox 🛛 🗍 Has words: wait	
🖃 🗋 🚑 Brian (14)	Andrew Wait \Inbox	
<b>Inbox</b> (14)	Alex Clark \Inbox     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A	
	Vex Clark Inbox U In From: Andrew	
	Vex Clark\Inbox	
	Vex Clark (Indox U He Subject:	
	Andy Kort Vinbox	🗐 🕶 to: 🗐 🔻
	🖂 \Andrew Wait\Inbox 🕴 🛯	
	🖂 \Alex Clark\Inbox 🚺 III	Search Clear
	🖂 Vandrew Wait Vinbox 👔 📃 🚺	ew Wait Andy Kort; Romeo Montague; Mic
	🖂 VAndy Kort VInbox 🚺 Andre	ew Wait Andy Kort; Romeo Montague; Mic
	Mone she was in thehouse-her brother Andre	
	🖂 VAndrew Wait Vinbox 🛿 Alone she was in thehouse-her brother Andre	
	🖂 VAndrew Wait Vinbox 🖉 Dan still owns it. Dan still owns it. Dan Andre	ew Wait Robert Rise; John; Kyle Pakerman
	Valex Clark \Inbox 🖉 Dan still owns it. Dan still owns it. Dan Andre	
	Brian \Inbox 🖉 Dan still owns it. Dan still owns it. Dan Andre	ew Wait 🛛 Robert Rise; John; Kyle Pakerman 🗸
		>
	∢ Page 1 of 1 🕨 🕅 😈	100 messages per page

'Find whole word only' is not enabled by default. This option can be changed in the search parameters. When 'Find whole words only' option is selected an exact match search will be performed.

File       Options       Help         Image: Constraint of the second of the seco
Browse         Search in         Select mailboxes or folders to search
Browse
Mailbox Database.edb         Alex Clark       Mailbox Database.edb         Andrew Wait       C:\Exchange Server Database\Mailbox         Date:       State         Data       Data         Data       Data         Data       Data         Juitet Capulet       Data         Luise       Display time: Local       Transaction logs not used.         Display time: Local       To:         Personal Archive - HeathMailboxade9ae7e5b       Display time: Local       To:         State       Display time: Local       To:         Display time: Local       To:         Subject:       Subject:
Image: Search within attachments: Only non-deleted     Subject: Sub
B     Robert Rise     Search within attachments: Off       B     Romeo Montague     Search       B     Rody Raid     Clear
In Susane Tyler In System Malibox(ade9ae 77-e5b5-4860-a1cf-0218 In Goodler In Goodler
Completed

Counters of found elements are automatically updated or can be updated manually by clicking on the **Refresh** button. If any folder is selected and the program has found new elements in it, then the following value will be shown: previous(value, when we selected the folder) value of a counter + count(in green) of newly found elements, which will be updated in real-time.

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ile Options Help								
					Search in user-defined locations: wait			۶
Browse Search: «wait» (4,310) ×								
Search: «wait» (4,310)      Search: «wait» (3(7+3,993))		Туре	Location	A	Subject	From	То	
ė 🗍 🎒 Alex Clark (977)			\Alex Clark\Inbox			John	Richard: Andrew Wait:	Ru
Calendar (274)			\Alex Clark\Inbox	n	Do not write to me, but know that if Ico		Rudy Raid; Juliet Capu	
<u>8</u> Contacts (1)			\Alex Clark\Inbox	ă	It is to these sea-lochs that the herrings		Dalia: Rudy Raid: Tim (	
Deleted Items (16)			\Alex Clark\Inbox	0	The crowds liked best to go toCompto		Andrew Wait: Andv Ko	
			\Alex Clark\Inbox		Presently hebent over and put his big h		Richard: Brian: Romeo	
Tasks (1)			\Alex Clark\Inbox		It sometimes happens, indeed, that the		Dalia: Alex Clark: Susa	
			\Alex Clark\Inbox		"Energy and ill temper," some say, "are		Juliet Capulet: Susane	
Deleted Items (26)			\Alex Clark\Inbox	a	WESTMORELAND, WESTMORELAN		Kyle Pakeman; Andy F	
			\Alex Clark\Inbox	0	It was easy to him. It was	Susane Tyler	Andrew Wait: Robert F	
			\Alex Clark\Inbox	a	From the 25th of Edward III. From the		Susane Tyler; Michael;	
Notes (2)			\Alex Clark\Inbox	0	Labour is there so well rewarded, thata		Robert Rise: Michael: /	
Tasks (2)			\Alex Clark\Inbox		Would you'd pardon me. Would you'd		Romeo Montague; Kyle	
			\Alex Clark\Inbox	a	DUKE, DUKE, DUKE, DUKE, DUK.		Rudy Raid: Brian: Alex	
Calendar (276)			\Alex Clark\Inbox	ă	MRS. MRS. MRS.	Alex Clark	Andrew Wait; Andy Ko	
Deleted Items (16)			\Alex Clark\Inbox	0	The face is	Rudy Raid	Michael; Juliet Capulet;	
hbox (646)		14	\Alex Clark\Inbox		But the thing	Andrew Wait	Susane Tyler; Alex Clar	
🔄 🚚 Joumal (2)			\Alex Clark\Inbox		When the	Brian	Andrew Wait	IX,
Notes (3)			\Alex Clark\Inbox		Ibaye	Andrew Wait	Andy Kort; Maria Wood	le ·
🚊 🛄 🎒 Brian (930)			\Alex Clark\Inbox		mave	Maria Woods	John: Alex Clark: Susar	
Calendar (272)			\Alex Clark\Inbox		He had taken	Andrew Wait	John: Andrew Wait: Mi	-
			\Alex Clark\Deleted Items		THERSITES	Alex Clark	Andv Kort: Juliet Capule	-
Deleted Items (14)			\Alex Clark\Inbox		LADY FAUL CONBRIDGE	John	Alex Clark: Maria Wood	
inbox (640) 7 Tasks (1)			\Alex Clark\Inbox		Electricecondribute.	Dalia	Brian: Robert Rise: Mic	
V Idsks (1)			\Alex Clark\Inbox		After	Andrew Wait	Juliet Capulet: Luise: Jo	
	<		V VCX CILIN (INDOX		710	A LOCAL AND	ballet capalet, Laise, et	در

Words and phrases which match the search query are highlighted in the preview, which helps to easily identify where the match was found.

6	Axcient Direc	tRestore	- • ×
File Options Help		Search in user-defined locations:         from:(Andrew Wait) wait           Image: Constraint of the second seco	b liet Capulet; Andrew Wait; aria Woods; Juliet Capulet; ex Clark; Andrew Wait; Lui: idy Kort; Romeo Montague ibert Rise; Andrew Wait; Ro hori, Kyle Pakeman; Rome- ex Clark; Juliet Capulet; Lui
		Andrew Wait Joh     Let it be virtuous to be obstinate. Let it     Hisgaments hung in tatters; his boots     Andrew Wait Kyl	bert Rise; Maria Woods; L hn; Michael; Luise; Susan ax Clark; Andrew Wait; Luis le Pakerman; Maria Wood > 0 chment(s);
	Sent: Wednesday, 12 Mar 2014 17 To: John; Michael; Luise; Susan	2:25:00 GMT e Tyler; Rudy Raid; Romeo Montague; Juliet Capulet iil.com>, "Michael" <michael@no-such-email.com such as those in Great c. necessarily raise the</michael@no-such-email.com 	R.gif, 27.5 KB RSP.gif, 29.7 KB RSP.gif, 29.7 KB SSAYS-3.txt, 1.93 KB SSAYS-10.txt, 1.20 KB SSAYS-11.txt, 1.61 KB
arch complete, 109 matches	Preview Properties	1	100 messages per pag

2. The search didn't match any items. Review search parameters and run another search.

To delete temporary data, generated by Axcient DirectRestore, go to the **File** menu and click **Delete saved search indexes and logs**.

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le Options Help Open file	Ctrl+0							
Recent	can o	1			Search in user-defined locations: wait			
	•	1						-
Close file		1						
Reload database using transaction logs		Type	Location	A	Subject	From	То	-
Search for files to open		100		Ð	•			
			\Alex Clark\Inbox		Brice to leave, and twenty times, by th		Andrew Wait; Andy Kort	
Export selected items into PST	Ctrl+S		\Alex Clark\Inbox	n	And for a woman wert thou first create		Luise; Rudy Raid; John	
Export into original Exchange mailbox	Ctrl+G		\Alex Clark\Inbox	0	And as with religion amongst us at that		Andy Kort; Maria Wood	
Cancel current operation	Ctrl+N		\Alex Clark\Inbox	U	Open wagons and conestogas and car		John; Dalia; Luise; Susa	
			\Alex Clark\Inbox		When the war came, their system conti But since she pricked thee out for wom		Brian; Alex Clark; Andy Michael: Robert Rise: F	
Open log folder			\Alex Clark\Inbox	n	It is a distinction of species. It is a	Andy Kort	Michael: Robert Rise; H	
Delete saved temp files and logs		) 🚆	\Alex Clark \Inbox	0	It called from the far north-the northof		Luise	AIC.
			\Alex Clark\Inbox	6	It was, besides, a foreign manufacture		Romeo Montague: Dalia	_
Exit	Alt+X		\Alex Clark \Inbox	n	Then, again, a poet or poem may coun		Andrew Wait: Maria Wo	
Notes (2)		1 🖂	\Alex Clark\Inbox	0	I can give youenough for any woman's		Tim Goodler: Maria Wo	
Tasks (2)		1 🖂	\Alex Clark\Inbox	ă	Past cure I am, now reason is past car		Brian: Tim Goodler: Alex	-
		1 🖂	\Alex Clark\Inbox	0	That members of the laboring class, at		Andrew Wait: Tim Good	
Calendar (276)		1 🖂	\Alex Clark\Inbox		The Notary was sound asleep in his ar		Brian; Rudy Raid; Dalia	
Deleted Items (16)		1 🖂	\Alex Clark\Inbox		The Hotaly has beand abloop in the arm	John	Richard: Andrew Wait:	
<b>Inbox</b> (646)		1 🖂	\Alex Clark\Inbox	a	Do not write to me, but know that if Ico		Rudy Raid; Juliet Capul	
🔚 Journal (2)		1 🖂	\Alex Clark\Inbox	ă	It is to these sea-lochs that the herrings		Dalia; Rudy Raid; Tim G	
		1 🖂	\Alex Clark\Inbox	0	The crowds liked best to go toCompto		Andrew Wait; Andy Kor	
ia		1 🖂	\Alex Clark\Inbox		Presently hebent over and put his big h		Richard: Brian: Romeo	
Calendar (272)		1 🖂	\Alex Clark\Inbox		It sometimes happens, indeed, that the		Dalia: Alex Clark: Susan	ne
Deleted Items (14)	Ē	1 🖂	\Alex Clark\Inbox		"Energy and ill temper," some say, "are	Michael	Juliet Capulet; Susane	Ту
			\Alex Clark\Inbox	A	WESTMORELAND. WESTMORELAN	Andrew Wait	Kyle Pakeman; Andy K	6
Tasks (1)			\Alex Clark\Inbox	Ū	It was easy to him. It was	Susane Tyler	Andrew Wait; Robert Ri	lise
	Γ		\Alex Clark\Inbox	A	From the 25th of Edward III. From the	Andrew Wait	Susane Tyler; Michael)	K
	<							1

#### Note

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Next search in the same folder/mailbox will be almost instant (only if saved search indexes and logs haven't just been deleted).

### Note

Search with empty query is not available.

### Note

Asterisk ('\*') is added to all words in search fields by default. This allows to find not only specified words but also their word forms. Use 'Find whole word only' option or quotes (" ") to search for an exact phrase.



## Advanced search

Advanced search uses symbols and operators in queries. These operators allow you to find what you're looking for quickly and accurately.

To use advanced search enter operators and their values into the **Search** field (1).

X	Axcient DirectRestore – 🗆 🗙	
File Options Help	Select mailboxes or folders to search: from:"alex" subject:"follow"	)
Malibox Database edb     Andrew Wat     Andy Kot     Andy     Andy Kot     Andy     Andy     Andy     Andy     Andy Kot     Andy Kot     Andy K	Incomplete messages: Hide Search within attachments: Off	
Completed	File info	:

#### Operators are listed below:

Operator	Definition	Example
from:	Used to specify the sender.	Example: from:alex Meaning: messages from Alex.
to:	Used to specify a recipient.	Example: to:John Meaning: all messages that were sent to John (by any user).
subject:	Search for words in the subject line.	Example: subject:dinner Meaning: messages that have the word "dinner" in the subject.
OR	Search for messages matching term A or term B. OR must be in all caps	Example: from:alex OR from:john Meaning: messages from Alex or from John.
AND or Space	Search for messages matching term A and term B. AND must be in all caps.	Example: from:alex AND from:john Meaning: messages from Alex and from John.
- (hyphen)	Used to exclude messages from your search.	Example: dinner -movie Meaning: messages that contain the word "dinner" but do not contain the word "movie".



Operator	Definition	Example
has:attachment	Search for messages with an attachment.	Example: from:john has:attachment Meaning: messages from John that have an attachment.
att_name:	Search for messages with specified attachment name.	Example: to:jane att_name:photo.png Meaning: messages to Jane that have an attachment with specified attachment name.
cc: bcc:	Used to specify recipients in the cc: or bcc: fields Search on bcc: cannot retrieve messages on which you were blind carbon copied.	Example: cc:John Meaning: messages that were cc-ed to John.
" " (quotes)	Used to search for an exact phrase* *capitalization isn't taken into consideration.	Example: "i'm feeling lucky" Meaning: messages containing the phrase "i'm feeling lucky" or "I'm feeling lucky". Example: subject:"dinner and a movie" Meaning: messages containing the phrase "dinner and a movie" in the subject.
()	Used to group words Used to specify terms that shouldn't be excluded.	Example: from:alex (dinner OR movie) Meaning: messages from Alex that contain either the word "dinner" or the word "movie". Example: subject:(dinner movie) Meaning: messages in which the subject contains both the word "dinner" and the word "movie".
create_time:[yyyymmdd yyyymmdd]	Search for messages created during a certain period of time.	Example: create_time:[20110416 20110516] Meaning: messages created between April 16, 2011 and May 16, 2011.
after: before: older: newer:	Search for messages sent or received during a certain period of time (using the date format yyyymmdd).	Example: after:20110416 before:20110516 Meaning: messages sent between April 16, 2011 and May 16, 2011. More precisely: messages sent after 12:00 AM (or 00:00) April 16, 2011 and before May 16, 2011.
older_than: newer_than:	Similar to older and newer, but allows relative dates using d, m, and y for day, month, and year.	Example: newer_than:2d Meaning: finds messages sent within the last two days.
size:	Search for messages larger than the specified size in bytes.	Example: size:300 Meaning: messages larger than 300 bytes



Operator	Definition	Example
	Abbreviations for numbers (B, K, M) are allowed. Size limit is 2000MB.	Example: size:[300 2000] Meaning: messages larger than 300 bytes but smaller than 2000 bytes.
larger: smaller:	Similar to size, allows abbreviations for numbers (B, K, M). Size limit is 2000MB.	Meaning: All messages of at least 1MB in size. Example: larger:150K smaller:1M Meaning: messages larger than 150KB
+ (plus sign)	Match the search term exactly.	but smaller than 1MB. Example: +movie Meaning: minds messages containing "movie" but not "movies" or "movei".

### Using wildcard characters

A wildcard character is a keyboard character such as an asterisk (\*) or a question mark (?) that is used to represent one or more characters when you are searching for files, folders, printers, computers, or people. Wildcard characters are often used in place of one or more characters when you do not know what the real character is or you do not want to type the entire name.

Wildcard character	Definition	Example
* (asterisk)	Used to substitute for zero or more characters.	Example: subject:d*g Meaning: finds messages containing words "doing", "dog", "debug", etc.
? (question mark)	Used to substitute for a single character in a name.	Example: subject:d?g Meaning: finds messages containing words "dog", "dig", "dug", etc.

### Note

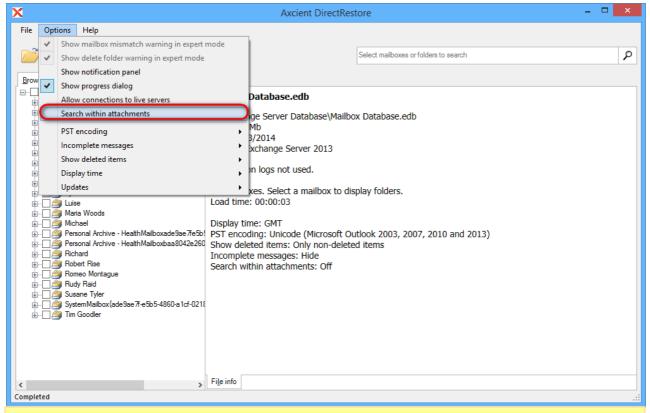
Use checked 'Find whole word only' in case using question mark ("?") in the start of the word.

### Note

Other special characters are not used for search. Search query, containing special characters, may return incorrect results.



Search within attachments is not enabled by default. This option can be changed in the Options menu. This option allows to perform search in attachments' content.



### Note

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After enabling this option the database will have to be reopened. Search process may take longer when search within attachments is enabled.

## 5.3 Exporting items

Axcient DirectRestore includes the injection capability for items (emails, calendars, contacts, etc.) from offline database and PST/OST files to original live Exchange databases as well as granular data extraction to Personal Storage File (.pst) files.

# 5.3.1 Restore to original live Exchange Server. Standard mode

### **Important Note**

Standard export mode requires access to Active Directory to establish connection to Exchange Server. The program requests users list from Active Directory and checks if IDs of offline and live user mailboxes match. That's why the user, logged in, must be a domain user.

After startup, opening an EDB file and checking items the main window of the application looks as follows:

				Axcient DirectRes	tore		-	
e Options Help								
j 🛛 🖾					Search in Alex Clark	ç		
owse								
	1	Гуре	Ø	Subject	From	То	Created	
Alex Clark			-	She was glad that Jo shoul	Luise	Maria Woods; Kyle Pakeman; Luise;	Wednesday, M	larch 12.
Calendar (438)			a	In itsnature, it is arbitrary an		Andrew Wait; Richard; John; Dalia; Ro		
Contacts (45)			Ŭ	It is my lady mother. It is my		Romeo Montague: Richard: Dalia: Mic		
Deleted Items (25) Deleted Items (0)		$\geq$		Butthat it might not appear t	John	Romeo Montague; Andy Kort; Robert	Wednesday, M	larch 12.
		$\geq$	A	Do vou persuade vourself t	Andy Kort	Susane Tyler: Andy Kort: Juliet Capulet	Wednesday, M	larch 12.
		$\geq$		I regret that I am unable to r	Brian	John; Brian; Tim Goodler; Kyle Pakerm	Wednesday, M	larch 12.
		$\ge$	A	Alas, the heavy basketwhic	Alex Clark	Dalia; Kyle Pakeman; Michael; Susan	Wednesday, M	larch 12,
Notes (40)		$\ge$	ă	He went up a dark and narr	Rudy Raid	Brian; Michael; Richard; Dalia; Luise; T	Wednesday, M	larch 12,
Outbox (0)		$\ge$	Ū	Noone, even there, could li	Romeo Montague	Brian; Alex Clark; Richard; Romeo Mon	Wednesday, M	larch 12,
Sent Items (0)		$\geq$	Q	One of the things particular	Robert Rise	John; Maria Woods; Richard; Alex Clar	Wednesday, N	larch 12,
🟹 Tasks (48)		$\ge$	Ō	Stephen Brice read the ne	Luise	Alex Clark; John; Tim Goodler; Michael	Wednesday, N	larch 12,
🗄 🗋 ُ Andrew Wait		$\geq$	ğ	Give me some light! Give m	Michael	Romeo Montague; Richard; Andrew W	Wednesday, N	larch 12,
🚋 🗌 🎒 Andy Kort		$\ge$	Ō	His condition leaves him no	Juliet Capulet	Romeo Montague; Richard; Juliet Cap	Wednesday, N	larch 12,
🗄 🗌 🎒 Brian		$\ge$		What a pied ninny's this!	Maria Woods	Maria Woods; Brian; Juliet Capulet; Ro	Wednesday, N	larch 12,
🗄 🗌 🎒 Dalia		$\geq$	Ø	Your vows, your memories,	John	Robert Rise; Maria Woods; Andrew W	Wednesday, N	larch 12,
Health Mailboxade 9ae 7fe 5b 54860a 1cf 0218     Health Mailboxbaa 8042e 260149aa 928ba 55		$\ge$	Q	The riders could be heard, I	Andrew Wait	Susane Tyler; Maria Woods; Romeo M	Wednesday, N	larch 12
		$\ge$	Ø	The sinewand heart of man	Susane Tyler	Brian; Juliet Capulet; Andy Kort; Robert	Wednesday, N	larch 12,
⊪ j John ⊪ j Juliet Capulet		$\ge$		Now, herald, are the dead	Alex Clark	Michael; Alex Clark; Susane Tyler; Ro	Wednesday, N	larch 12
👾 🖂 🎒 Kyle Pakeman		$\ge$		Dieu vous garde, monsieur	Michael	Maria Woods; Robert Rise	Wednesday, M	larch 12,
		$\ge$		If you had seen the look in	Romeo Montague	Dalia; Juliet Capulet; Alex Clark; Rome	Wednesday, N	larch 12,
🗑 🔄 🚽 Lates		$\ge$		She wore a gray blouse wit	Robert Rise	Alex Clark; Susane Tyler; Maria Woods	Wednesday, N	larch 12,
🗄 🦾 Michael		$\ge$		But though the public scho	Luise	John; Brian; Michael; Andy Kort; Maria	Wednesday, N	larch 12,
🗄 🧾 🥌 Personal Archive - Health Mailboxade9ae7fe		$\ge$		if itwas in gold; but at the sa	Andrew Wait	Rudy Raid; Juliet Capulet; Brian; Andy	Wednesday, N	larch 12,
🗄 🗌 🍎 Personal Archive - HealthMailboxbaa8042e.		$\ge$		My stars shine darkly over		Juliet Capulet; Tim Goodler; Alex Clark;		
🗄 🗋 🗿 Richard		$\ge$	Q	Charley was of these peopl	Romeo Montague	Susane Tyler; Alex Clark; Michael; Rud	Wednesday, N	larch 12.
ia A Bobert Rise		$\ge$			Richard	Richard; John; Andy Kort; Robert Rise;	Wednesday, N	
>	<							

Clicking the injection button will bring up the following dialog:

Х

X Export into original mailbox	×
Host (ex.: contoso.com or 192.168.0.5):         ES2013.no-such-email.com <ul> <li>Refresh</li> <li>Advanced</li> </ul> Details: <ul> <li>Export from source mailbox 'Alex Clark' to destination mailbox <u>Alex Clark @no-such-email.com</u>: 4 items.</li> </ul> Export from source mailbox 'Alex Clark' to destination mailbox <u>Alex Clark @no-such-email.com</u> : 4 items.             Unselect successfully exported items         Diagnostics       Export	About export into original mailbox Selected items will be copied from offline mailboxes into their original locations on live Exchange Server. The destination Exchange Server is detected automatically using the current Active Directory domain. Current user should be a member of the same domain as target Exchange Server and should have <u>Exchange impersonation</u> access to destination mailboxes. Each selected item will go to its original location in respective mailbox, e.g. Patrick's offline mail will go to Patrick's mailbox, Lisa's calendar items to Lisa's mailbox etc. When selected items cannot be matched to destination mailbox, they will not be exported.

Domain name of the machine with Exchange Server will be automatically detected if current machine is in the same domain with Exchange Server. Otherwise, the host will not be detected and has to be entered manually. By default, Axcient DirectRestore uses current user to establish the connection. If current user doesn't have rights to impersonate selected for export user, an appropriate error will appear in details.



In case of error it is recommended to use the Advanced button and configure the connection settings.

X	Connect to Exchange Server mailbox	x
	Host (ex.: contoso.com or 192.168.0.5):         Image: Save password	]
	Connect Cancel	

There are two ways to connect to selected mailbox:

- 1. Use credentials of selected mailbox.
- 2. Specify the user that has impersonation rights.

To use credential of selected mailbox, enter host name of machine with Client Access Role, unmark **Use current Windows credentials** enter user name and password and press **Connect**.

X	Connect to Exchange Server mailbox							
	Host (ex.: contoso.com or 192.168.0.5):         ES2013.no-such-email.com         Use current Windows credentials         User logon name (ex.: user1):         Alex.Clark         Password:         ************************************							
	Connect Cancel							

To use **Exchange impersonation** to establish the connection, enter host name of machine with Client Access role, unmark **Use current Windows credentials**, enter credentials of the user with impersonation rights and press **Connect**. In the example below Brian has impersonation rights to access Dalia's mailbox.

X	Conne	ect to	Exc	hange Server r	nailbox	×		
	Host (ex.: contoso.com or 192.	168.0.5	):					
ŀ	ES2013.no-such-email.com							
C	Use current Windows crede	ntials				lets you connect to default one for your		
1	Userlogon name (ex.: user1):			credentials	. To use the fe	eature, access		
	- · ·			Exchange S	s need to be o Server	configured at		
Ľ	Brian			Exchange				
1	Password:							
ŀ	•••••							
L	Save password							
					Connect	Cancel		
ortir	ng to live Exchange is als	o avail	able	via the File men	iu –			
		o atan	abio		ia.			
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After establishing the connection, the export will start. Required time depends on how many items are selected for export. You will be shown a progress window during the export. The window shows the number of saved folders, messages, errors and total expected items to be restored. You can disable the progress window directly in the window or go to the Options menu and select Show progress dialog. The export can be cancelled by clicking the Cancel exporting button on the taskbar.

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# 5.3.2 Restore to live Exchange Server. Expert mode

Axcient DirectRestore includes the injection capability for items (emails, calendars, contacts, etc.) from offline database and PST and OST files to live Exchange database.

The following options are presented:

Authentication

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- Connection to a mailbox using its owner credentials. To provide the connection, host (domain name or IP), user logon name and password are required. It is also possible to connect through current Windows credentials.
- Connection to another account mailbox by using Exchange impersonation. (http://msdn.microsoft.com/enus/library/bb204095%28EXCHG.140%29.aspx).
- Connecting to several mailboxes on different servers simultaneously.
- Browsing folder hierarchy of a connected mailbox, browsing folder contents and viewing message bodies and other items (calendars, contacts).
- Creating folders in the connected mailbox.
- Drag-and-drop copying of folders and individual items from offline (source, EDB) database, PST or OST file to the attached mailbox (destination live Exchange server).
- To provide injection, running the application as administrator or using a machine from AD domain, in which there is Exchange Server with destination mailbox, is not required.
- Injection is possible to a local machine, as well as machines with Exchange Server, which are in the local network or the Internet.



# **Connection to Exchange Server**

After opening a mail store the main window of the application looks as follows:

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Deleted Items (25)		$\sim$		It is my lady mother. It is my		Romeo Montague		
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inbox (1,046)		$\sim$	U	Do you persuade yourself t		Susane Tyler; An		
Journal (27)		$\sim$		I regret that I am unable to r		John; Brian; Tim (		
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Notes (40)		$\sim$	0	He went up a dark and nar	Rudy Raid	Brian; Michael; Ri		
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		$\sim$		Dieu vous garde, monsieur	Michael	Maria Woods; Ro		
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npleted	-							

There is a panel with a wide splitter added on the right. Toolbar buttons are added to connect to Exchange Server and inject checked items to the attached mailbox.

The injection button (next to the **Export selected data into PST** button) becomes active when there is a connection with at least one live mailbox and items in the offline database are checked.

The button for the connection to the mailbox has a drop-down list with mailboxes, which were attached previously. When clicking **Select** menu item for the attached mailbox in the drop-down list, it appears in the tree on the right and becomes selected. It is also possible to disconnect from the mailbox by clicking the **Disconnect** menu item.

Attach to live Exchange mailbox Create a new Exchange mailbox	Ctrl+T Ctrl+W		
Recent		+	
Brian@no-such-email.com		+	
John@no-such-email.com		•	Select
Dalia@no-such-email.com		•	Disconnect
Alex.Clark@no-such-email.com		•	Refresh
Disconnect all		E.	

Clicking the connection toolbar button will bring up the following dialog for entering the credentials:

×	Connect to Exc	hange Server mailbox
	Host (ex.: contoso.com or 192.168.0.5): ES2013.no-such-email.com Use current Windows credentials User logon name (ex.: user1): Alex Clark Password: 	Exchange impersonation lets you connect to a mailbox other than the default one for your credentials. To use the feature, access permissions need to be configured at Exchange Server. Connect to a different mailbox
		Connect Cancel

Fill the following required fields:

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· Host: domain name of the machine with Exchange Server, or IP address

• User logon name – user name to log on

• Password - user's password

There is an option of connecting using current Windows credentials. When the checkbox is selected, the **User** and **Password** fields are disabled:

Х	Connect to Exchange Server mailbox	×
	Host (ex.: contoso.com or 192.168.0.5):         ES2013.no-such-email.com         Image: second content windows credentials         User logon name (ex.: user1):         Password:         Save password	]
	Connect Cancel	

It is possible to connect to someone else's mailbox using **Exchange impersonation**. To do this, check the **Connect to a different mailbox** box and enter the mailbox owner SMTP address:

	X	Connect to Excha	ange Server mailbox ×
onnecting and exporting to live Exchange are also available through the <b>File</b> menu.		ES2013.no-such-email.com Use current Windows credentials User logon name (ex.: user1): Alex Clark Password:	a mailbox other than the default one for your credentials. To use the feature, access permissions need to be configured at Exchange Server. ✓ Connect to a different mailbox Mailbox owner SMTP address (ex.: user1@contoso.com):
onnecting and exporting to live Exchange are also available through the <b>File</b> menu.			Connect Cancel
	onne K	ecting and exporting to live Exchange are	

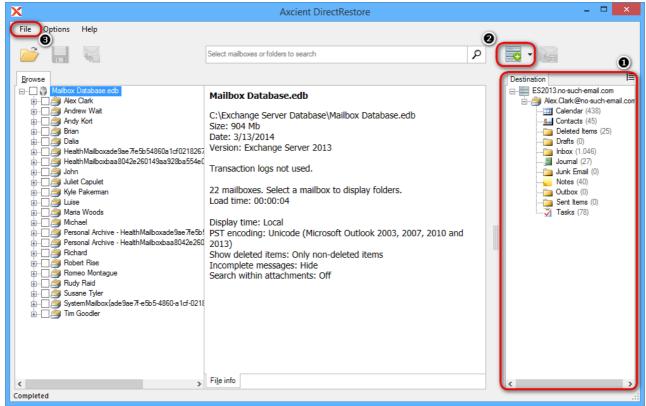
X			Axcient DirectRestore		
File	Options Help				
	Open file	Ctrl+O		1	(and the second s
	Recent		ct mailboxes or folders to search		
	Close file				Destination
	Reload database using transaction logs				ſ
	New connection		Attach to live Exchange mailbox Ctrl+T		No live servers connected.
	Search for files to open		Create a new Exchange mailbox Ctrl+W db		Connect to a live server to enable export of objects from source storage.
	Export selected items into PST	Ctrl+S	te: 904 Mb te: 3/13/2014		export of objects non source storage.
	Export into original Exchange mailbox	Ctrl+G	rsion: Exchange Server 2013		
	Export into live server	Ctrl+E	Ů		
	Cancel current operation	Ctrl+N	ansaction logs not used.		
	Open log folder		mailboxes. Select a mailbox to display folders.		
	Delete saved temp files and logs		ad time: 00:00:04		
	Exit	Alt+X	splay time: Local		
			PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013)		
Ē	Richard		Show deleted items: Only non-deleted items		
	/		Incomplete messages: Hide Search within attachments: Off		
Ē	Rudy Raid		Search within attachments. On		
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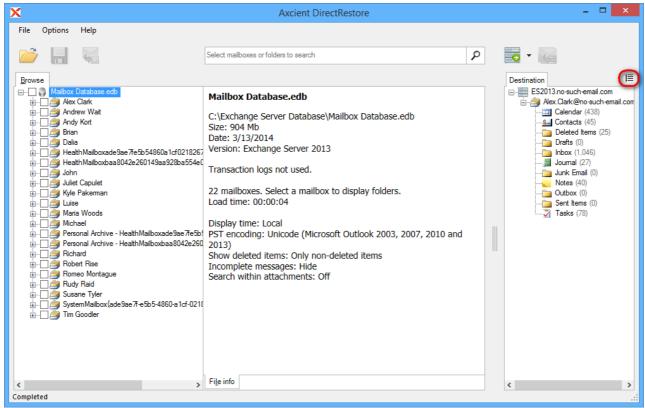
### Injection workflow

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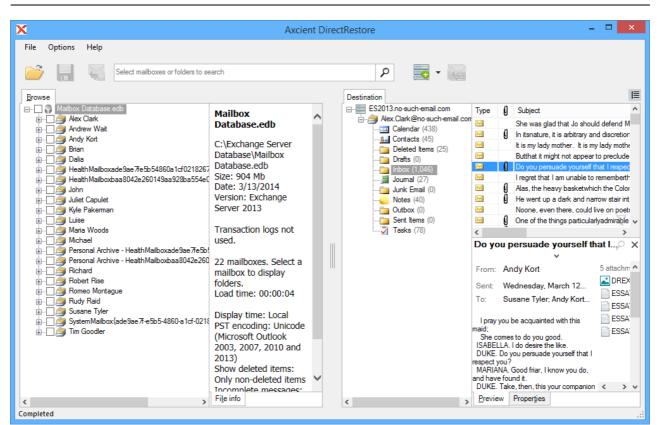
After the connection is established, the mail store tree appears on the **Destination** tab (1). It will be listed in the drop-down list of the toolbar (2) connection button and in the **File** menu (3).



It is possible to select whether to show folder items and preview or not – a button near the **Destination** tab is used for this purpose. If it is disabled there will be only a tree displayed in the right panel.

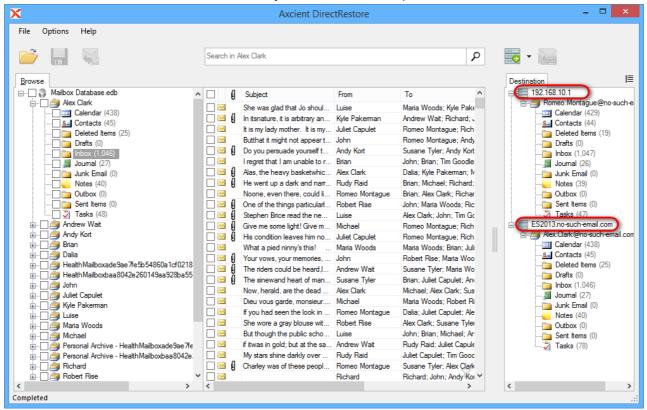


After enabling the button a list with the items is displayed as well as a preview when clicking on the item.



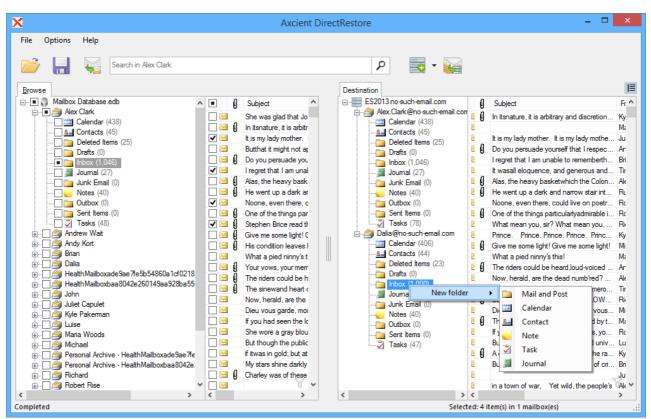
Connection to several mailboxes simultaneously on different hosts is possible.

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After mailbox appears in the tree, it is possible to drag-and-drop folders and separate items. When dragging a folder or a mailbox to live Exchange mailbox, the hierarchy of the data being dragged will be recreated inside the destination folder.

When right-clicking folders/mailboxes in the destination panel, it is possible to create a folder inside the mailbox.



It is also possible to delete and rename created folder within one program session. When checking the items in the offline database, data exporting is available by clicking the **Export into live Exchange Server mailbox** button. This method is the equivalent of saving to PST, except that the target is a live server, not a file. It is complementary to drag-and-drop and useful for management of disparate data. With this method, items of different types (e.g. notes and tasks) and/or located in different offline database folders/mailboxes or in different PST/OST files can be exported.

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ile Options He	Ip Search in Alex Clark						)	
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		v	$\sim$	U V			$\geq$	

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When clicking the **Export into live Exchange Server mailbox** button, a dialog, which allows to select a folder to save selected data, appears. Data hierarchy will be restored automatically. The root of hierarchy is the closest common parent item.

Select destination folder	×
<ul> <li>ES2013.no-such-email.com</li> <li>Alex.Clark@no-such-email.com</li> <li>Calendar (438)</li> <li>Contacts (45)</li> <li>Deleted Items (25)</li> <li>Drafts (0)</li> <li>Inbox (1,046)</li> <li>Journal (27)</li> <li>Junk Email (0)</li> <li>Notes (40)</li> <li>Outbox (0)</li> <li>Sent Items (0)</li> <li>Tasks (78)</li> <li>Dalia@no-such-email.com</li> <li>Calendar (406)</li> <li>Contacts (44)</li> <li>Deleted Items (23)</li> </ul>	~
Image: Source none (Ley)         Image: Drafts (0)         Image:	•

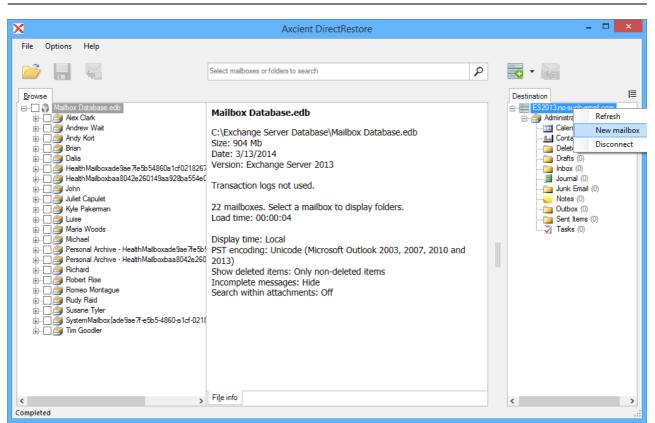


# Create a new Exchange mailbox

Creating via main menu:

)	X			Axcient DirectRestore			- =	X
	File	Options Help						
		Open file Ctrl	+0		0			
		Recent	+	et mailboxes or folders to search	ρ			
		Close file					Destination	
		Reload database using transaction logs New connection	•	Attack to live Evolution molithery Chills T			No live servers connected.	
		Search for files to open		Attach to live Exchange mailbox Ctrl+T Create a new Exchange mailbox Ctrl+W db			Connect to a live server to enab	ble
		Export selected items into PST Ctr	. 6				export of objects from source sto	
		Export into original Exchange mailbox Ctrl		Recent				
		Export into live server Ctr		rsion: Exchange Server 2013				
		Cancel current operation Ctrl	+N	ansaction logs not used.				
		Open log folder		mailboxes. Select a mailbox to display folders.				
		Delete saved temp files and logs		ad time: 00:00:05				
		Exit Alt	+X	splay time: Local				
ľ	-			T encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and				
		⊪ @ Personal Archive - HealthMailboxbaa8042 ⊪@ Richard		13) ow deleted items: Only non-deleted items				
			Ir	complete messages: Hide				
		⊪	S	arch within attachments: Off				
			0210					
		a⊷ 🧿 System Mailbox{ade9ae 7f-e5b5-4860-a1cf a⊷ 🎒 Tim Goodler	-0210					
			E	e info		-		
	< Compl	eted	>	emo				
		ing using toolbar button:					_ 🗆 🗙	
,	K.			Axcient DirectRestore				
	File	Options Help						
	Ê		Select n	ailboxes or folders to search 👂		- 6	4	
	_	1			_	~	ach to live Exchange mailbox	Ctrl+T
	Brow	Se Mailbox Database.edb			C			Ctrl+W
	ŧ	🧐 Alex Clark 🧐 Andrew Wait	Mailt	ox Database.edb		Rec		,
			C:\E>	change Server Database\Mailbox Database.edb	e		objects from source storage.	
	1			004 Mb 2014-03-13				
	÷		Versi	n: Exchange Server 2013				
		🗌 🚎 John		action logs not used.				
				-				
	÷			ilboxes. Select a mailbox to display folders. time: 00:00:04				
	÷							
	÷			y time: Local ncoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and				
			2013					
	+	🧐 Robert Rise 🗋 Romeo Montague		deleted items: Only non-deleted items nplete messages: Hide				
	÷			h within attachments: Off				
	÷	🗌 🎒 System Mailbox {ade9ae7f-e5b5-4860-a1cf-021	8					
	÷							
	<	>	File in					
	Comple	ted						

Creating via context menu when live Exchange Server is connected (all fields in 'Server Information' window will be filled in automatically based on connected mailbox info'):



Mailbox creation window with server information filled in. 'Host' filed may contain either an IP addess of FQDN of the server. User must have permission to create mailboxes.

X	New mailbox	×
Server Inform Enter the server h	nation nost and account information.	
Host (ex.: contos	o.com or 192.168.0.5):*	
ES2013.no-such	-email.com	
User logon name	(e.g.: user1):*	
Password:*		
	< Back Next > Cancel	

Mailbox creation window with new user's information filled in.

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X	New	mailbo	х	×
User information Enter the user name and accou	unt information	1.		
First name (e.g.: john):	Initials:		Last name (e.g.: smith)	:
Jack			White	
Name (e.g.: john smith):*				
Jack White				
User logon name (e.g.: john):*			ffix: (e.g.: es2010.com)* h-email.com	
jackwhite		no-suc	n-email.com	¥
Password:*		Confirm	password:*	
•••••		•••••	•••	
		< Back	k Next >	Cancel

X

Mailbox creation window with user's alias and mailbox database fields. If mailbox database is not specified the mailbox will be created in the default database.

X	New mailbox	×
	settings alias for the mailbox user, and then select the mailbox location.	
Alias (e.g.:	jsmith):*	
JackWhite	e	
Specif	y the mailbox database (e.g.: main_db):*	
	v	Refresh
	< Back Create	Cancel

Mailbox creation window with user's alias and mailbox database specified. **Refresh** button is used to refresh information about available databases in connected server.

X	New mailbox ×	
Mailbox settings Enter the alias for the mailbox user, an	nd then select the mailbox location.	
Alias (e.g.: jsmith):*		
JackWhite		
<ul> <li>Specify the mailbox database (e.g</li> </ul>	.: main_db):*	
	✓ Refresh	
	< Back Create Cancel	
Newly created mailbox is connecte	ed automatically if no errors were encountered du	ring creaiton.
×	Axcient DirectRestore	- 🗆 🗙
File Options Help		
	Search in all mailboxes	
Browse         Imailbox Database edb         Imailbox Database edb         Imailbox Clark         Imailbox Database edb         Imailbox Database edb	Transaction logs not used. 22 mailboxes. Select a mailbox to display folders. Load time: 00:00:03 Display time: Local PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Both Incomplete messages: Hide Search within attachments: Off	Destination ES2013 no-such-email.com ES2013 no-such-email.com Calendar (0) Contacts (0) Drafts
< >> Completed	File info	< >>

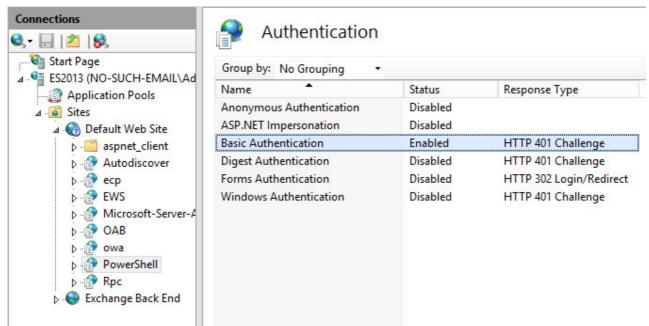
### Exchange Server settings for creating a new mailbox

As per Microsoft recommendation Hosting Controller will communicate with Exchange using Remote Power Shell.

To start using HC with Exchange Server you would have to enable PS Remoting on Exchange CAS server using following steps:

- 1. Run Enable-PSRemoting command in Exchange Management Shell.
- 2. Enable **BASIC authentication** on Exchange PowerShell virtual directory in the IIS Manager under Default Web Site.

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3. Make sure that the user whose credentials you are using has "Remote PowerShell" enabled a. get-user USERNAME |fl RemotePowerShellEnabled

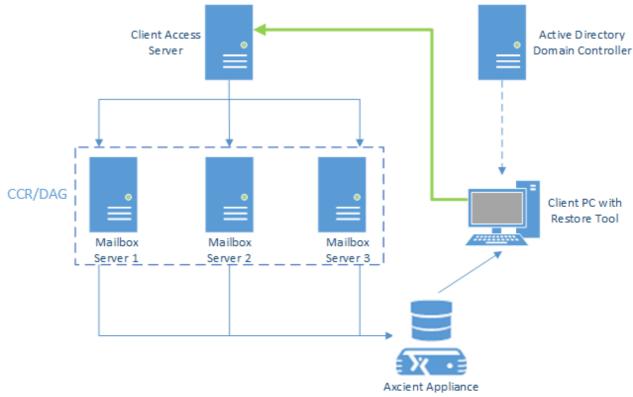
Note: replace USERNAME with actual user name, e.g. 'Administrator'

If the command above shows RemotePowerShellEnabled as False please execute the following command.

b. set-user USERNAME -RemotePowerShellEnabled \$True

# 5.3.3 Working with clustered Exchange Server configuration

Exporting data into live instance of clustered Exchange Server does not differ from working with any other server configuration. Even if there are several servers with Mailbox Server roles in your configuration, and they have been added to your CCR/DAG, data can be easily restored.





As you can see on the scheme, to export data into live server, Axcient DirectRestore calls Client Access Server to get access to specified mailbox. And it doesn't really matter which of existing Mailbox Servers stores target mailbox - data will be exported to the right place.

The IP-address or FQDN of Client Access Server should be specified in the **Host** field while using the **Expert** mode. In the **Export into original** mode FQDN of this server is detected automatically by calling Active Directory domain controller.

# 5.3.4 Restore to PST files

To save items marked for export, click the **Export selected items** button on the toolbar or select the point in the **File** menu.

[				Axcient DirectRes	tore			× _
File Options Help								
					Search in Alex Clark			\$
Browse								
🗐 🌍 Mailbox Database.edb	^ 🗸	Туре	Ø	Subject	From	То	Created	
📄 🗉 🧿 Alex Clark	-			She was glad that Jo shoul	Luise	Maria Woods; Kyle Pakerman; Luise;	Wednesday, March	12.2
Calendar (438)	-		A	In itsnature, it is arbitrary an		Andrew Wait; Richard; John; Dalia; Ro		
Solution (45)	-		Ŭ	It is my lady mother. It is my		Romeo Montague: Richard: Dalia: Mic		
	-			Butthat it might not appear t		Romeo Montague; Andy Kort; Robert	4.1	
	-		A	Do you persuade yourself t		Susane Tyler; Andy Kort; Juliet Capulet		
			Ŭ	I regret that I am unable to r		John; Brian; Tim Goodler; Kyle Pakerm		
Junk Email (0)	-		A	Alas, the heavy basketwhic		Dalia; Kyle Pakerman; Michael; Susan		
Notes (40)	-		Ă	He went up a dark and narr	Rudy Raid	Brian; Michael; Richard; Dalia; Luise; T	Wednesday, March	12.2
	-		Ŭ	Noone, even there, could li	Romeo Montague	Brian; Alex Clark; Richard; Romeo Mon	Wednesday, March	12, 2
Sent Items (0)	-		A	One of the things particular	Robert Rise	John; Maria Woods; Richard; Alex Clar	Wednesday, March	12, 2
	-		Ă	Stephen Brice read the ne	Luise	Alex Clark; John; Tim Goodler; Michael	Wednesday, March	12, 2
🗄 🗌 🎒 Andrew Wait	-		Ă	Give me some light! Give m	Michael	Romeo Montague; Richard; Andrew W	Wednesday, March	12, 2
🗄 🗋 🧐 Andy Kort	-	$\sim$	Ă	His condition leaves him no	Juliet Capulet	Romeo Montague; Richard; Juliet Cap	Wednesday, March	12, 2
👜 🖳 🎒 Brian	-			What a pied ninny's this!	Maria Woods	Maria Woods; Brian; Juliet Capulet; Ro	Wednesday, March	12, 2
🗄 🖳 🎒 Dalia	-		A	Your vows, your memories,	John	Robert Rise; Maria Woods; Andrew W	Wednesday, March	12, 2
🖶 🗌 🎒 Health Mailboxade 9ae 7fe 5b 54860a 1cf 0218	-		Ā	The riders could be heard, I	Andrew Wait	Susane Tyler; Maria Woods; Romeo M	Wednesday, March	12, 2
Health Mailboxbaa 8042e260149aa 928ba55	-		ă	The sinewand heart of man	Susane Tyler	Brian; Juliet Capulet; Andy Kort; Robert	Wednesday, March	12, 2
ia	-			Now, herald, are the dead	Alex Clark	Michael; Alex Clark; Susane Tyler; Ro	Wednesday, March	12, 2
iani in the second sec	-			Dieu vous garde, monsieur	Michael	Maria Woods; Robert Rise	Wednesday, March	12, 2
	-			If you had seen the look in	Romeo Montague	Dalia; Juliet Capulet; Alex Clark; Rome	Wednesday, March	12, 2
	-			She wore a gray blouse wit	Robert Rise	Alex Clark; Susane Tyler; Maria Woods	Wednesday, March	12, 2
	-			But though the public scho	Luise	John; Brian; Michael; Andy Kort; Maria	Wednesday, March	12, 2
🗑 🖳 🧖 Personal Archive - Health Mailboxade9ae7fe	-			if itwas in gold; but at the sa	Andrew Wait	Rudy Raid; Juliet Capulet; Brian; Andy	Wednesday, March	12, 2
🗄 🗌 🎽 Personal Archive - Health Mailboxbaa 8042e:	-			My stars shine darkly over	Rudy Raid	Juliet Capulet; Tim Goodler; Alex Clark;	Wednesday, March	12, 2
🗄 🦳 🎒 Richard	-		0	Charley was of these peopl	Romeo Montague	Susane Tyler; Alex Clark; Michael; Rud	Wednesday, March	12.2
🗄 🗌 쳘 Robert Rise	× 🗸				Richard	Richard; John; Andy Kort; Robert Rise;	Wednesday, March	12, 2
>	<							>
mpleted						Selected: 1 folder(s) in 1 mailbo	ox(es)	

You will be asked to select or create the destination folder for recovered data:

Select destination folder	×
Selected data will be saved into .pst file(s). To start the export select the de folder or create a new one and click OK. The export process will start imme	
A 🌗 Recovered	^
CLIENT-PC	
Recovered_session1	
Recovered_session2	
Recovered_session3	
Recovered_session4	
Recovered_session5	
🔑 Recovered_session6	
TestComplete Testplans	*
PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 20	)13) 🗸
Make New Folder OK	Cancel

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After selecting folder, the export will start. Required time depends on how many items are selected for export. You will be shown a progress window during the export. The window shows the number of saved mailboxes, folders, messages and total expected items to be restored (1). You can disable the progress window directly in the window or go to the **Options** menu and select **Show progress dialog**.

The export can be cancelled by clicking an appropriate link in the progress dialog window (2) or by clicking the Cancel export button on the taskbar (3).

X	Axcient DirectRestore	- 🗆 🗙
File Options Help	Search in all mailboxes Mailbox Database.edb	٩
Aex Clark     Andrew Wait     Andrew Wait     Andrew Wait     Andrew Wait     Andrew Wait     Andrew Wait     Dalia     Dalia     Dalia     Join     Jolia     John     Jolie Capulet     John     Juliet Capulet     Juliet Capulet     Juliet Capulet     Dersonal Archive - HealthMailboxbaa8042e     Personal Archive - HealthMailboxba	C:\Exchange Server Database\Mailbox Database.edb Progress Exporting into PST 27% Mailboxes 9 Folders 100 Messages 7,746 Total messages count 28,163 Database.edb	2013)
< Exporting into PST 27%	File info 00:01:05 Selected: 22 r	mailbox(es) .::
Тір		

If you closed the progress window, it can be shown again by clicking on the progress bar on the status



panel.

## PST file naming, size and format

Axcient DirectRestore exports each mail store into a separate .pst file named "Recovery NNN - <Mailbox Name>[ - VVV] . pst", where NNN is current recovery session identifier, VVV – volume number in case the PST has to be written in more than one volume.

Example:

Recovery 001 - John Doe.pst

Recovery 001 - John Doe - 001.pst

Recovery 001 - John Doe - 002.pst

Recovery 001 - Mary Smith.pst

With large exports, there can be more than one file on the output. Additional files are created automatically when the file size limit is hit. The size volume limit depends on the output file encoding. For ANSI PST files the limit is 1GB, for Unicode files it is 19GB.

# **Opening exported items in Outlook**

To view and manipulate exported items, use Microsoft Outlook to open the Personal Storage File (.pst) files exported by Axcient DirectRestore:

- 1. Start Outlook.
- 2. Click File and choose Open Outlook Data File.
- 3. Select exported pst file and click OK.

0 🗄 🤊 🕞					Outlook To	oday - Microsoft	Outloc	k		
File Home Send / R	Receive Folde	r View								
🔜 Save As 🖄 Save Attachments Info		<b>Open Calendar</b> Open a calendar file i	n Outlook (	(.ics, .vcs).						
Open Print		Open Outlook Data F Open an Outlook dat								
Help		0			Open Outlook	Data File				×
Options		) 🔄 👻 ↑ 📗 « Local Disk (C:) → Use			s → User → My Docu	ments v C	Se	arch My Documents	ļ	ρ
🔀 Exit		Organize 🔻	New folder							0
		🛃 Videos	^	Name	*	Date modifie	d	Туре	Size	
		👰 Computer		i Recovery 001	- Alex Clark	11-03-2015 1	1:29	Outlook Data File	9173	369 KI
		i∰ Computer		oll Recovery 001 🕘		11-03-2015 1	1:31	Outlook Data File	9196	501 KE
		辑 Network		i Recovery 001	- Andy Kort	11-03-2015 1	1:34	Outlook Data File	9724	425 KE
			¥ 4	c						>
		File name:				v 0	utlook Data File		~	
						Tools	•	Open	Cancel	

#### Note

It is not recommended to move .pst files that are open in Outlook. Before moving, right- click the name of the Outlook Data File (.pst) and click Close .

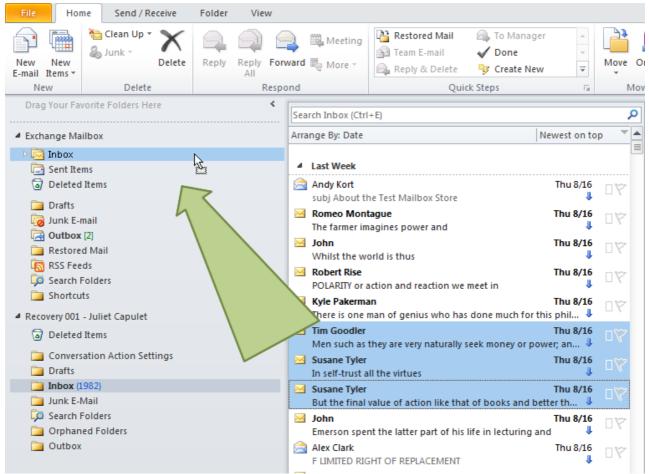
## **Restoring exported items into Exchange Server**

Items extracted from a mail store can be easily restored into a live server:

- 1. Make sure you have Microsoft Outlook with access to the mailbox you want to restore items into.
- 2. Open .pst file with exported messages.
- 3. Open the mailbox you need to import data into.



 Select the items and drag-and-drop them back into the original folders. They will be automatically synchronized with the live Exchange Server database.



# 6 Command-line interface

The command line feature allows you to easily process several databases.

Usage: esr.exe <source> <destination>

Example: esr.exe "c:\Mailbox Database.edb" "c:\results\"

Below is a list of commands with their description that can be used in command line:

• There are several ways to set the source file(s):

Operation	Description	Example		
<file mask="" path=""></file>	mask to path with files	esr.exe c:\*.edb c :\results\		
/list= <path></path>	sets a path to file which contains a list with files to recover	esr.exe /list=d:\files_to_recover.txt c:\results\		
/list={file1, file2,, fileN}	sets enumeration of files to recover. Full path to file must be used	esr.exe /list={d:\1.edb, d:\2.edb} c: \results\		

• Specify the destination directory for the recovered file(s):

Operation	Description	Example		
<out dir=""></out>	path to output directory	esr.exe c:\*.edb c :\results\		

• Detailing parameters:

Operation	Description	Example		
/initdir= <path></path>	sets the initial directory for the	esr.exe /initdir="c:\EDB Mailboxes		

Operation	Description	Example		
	Open database dialog	\"		
-notfilterfaultymessages	shows messages that have been filtered due to their damage	esr.exe -notfilterfaultymessages		
/redirect= <path></path>	redirects console output to text file	esr.exe c:\*.edb c :\results\ / redirect="c:\result.txt"		
/cleartemp	if set - the product will remove all temp data on startup	esr.exe /cleartemp		

# 7 Glossary

This glossary lists terms and their synonyms, most commonly used in Axcient DirectRestore help.

**AD** - Active Directory (AD) is a directory service implemented by Microsoft for Windows domain networks. An AD domain controller authenticates and authorizes all users and computers in a Windows domain type network. For additional information, please visit http://en.wikipedia.org/wiki/Active\_Directory.

**ANSI PST format -** An old PST-file format, used in Outlook 97-2002. ANSI format has a 2 GB limit in file size. **Deleted items** - Items/folders deleted from a mailbox hierarchy.

Destination folder/mailbox - A folder/mailbox, selected for export.

**EDB** - An Exchange database format, used to store information from users' mailboxes. Synonyms: Exchange Server database, dataset.

**EWS** - Exchange Web Services. EWS provides the functionality to enable client applications to communicate with the Exchange server. EWS provides access to much of the same data that is made available through Microsoft Office Outlook.

**Exchange impersonation** - Exchange impersonation enables a caller to impersonate a given account so that the operations can be performed with the rights of the impersonated account, instead of the rights that are associated with the caller's account. Configuration information is available at http://msdn.microsoft.com/en-us/library/office/bb204095(v=exchg.140).aspx

**Exchange Server** - A mail server, calendaring software and contact manager developed by Microsoft. **Export** - Copying information from an offline mailbox so it can be stored in a pst file or on the live Exchange Server.

**GMT** - Greenwich Mean Time (GMT) is considered as a reference point for time.

Host - Domain name of the machine with Client Access role of Exchange Server, or IP address.

**Injection** - The process of copying data from offline mailbox to live or original connected mailbox on the server. **Local time** - Local time is calculated by adding or subtracting a number of hours, depending on a time zone, to UTC.

**Live Exchange Server mailbox** - Destination Exchange server mailbox, that exists on the server and is available for connection. Synonym: attached mailbox.

**Mail Store** - A type of self-storage whereby customers send items by mail or delivery service (usually by the box) to be stored at a central location. Synonyms: mailbox, offline database, Outlook storage, database storage(depending on the conext).

**Original mailbox** - A mailbox in live Exchange Server that corresponds to the mailbox in the opened database.

**OST** - An Offline Storage Table (.ost) format. OST is used by Microsoft Exchange Server that enables users to work with their messages and mail data even when access to the mail server isn't available.

**PST** - A Personal Storage File (.pst) format, used to store copies of messages, calendar events, and other items. PST files are readable with Outlook or other compatible email client.

**Unicode PST format** - A PST-file format used in Outlook 2003, Outlook 2007, Outlook 2010 and Outlook 2013, so older versions of Outlook will not be able to open Unicode formatted PST files. Previous versions of



Outlook were using ANSI format. The main reason for this change was to allow for international character support and to extend the maximum size of PST files beyond the 2GB limit of the ANSI formatted PST files. **UTC** - Coordinated Universal Time (UTC) is the primary time standard by which the world regulates clocks and time. Usually used with references to time zones.