

Axcient DirectRestore

Version 21.2.2



1 Product overview	. 4
1.1 Supported Exchange database versions	. 4
1.2 Supported Outlook versions	. 4
1.3 Supported SQL Server database versions	. 5
1.4 System requirements	. 5
1.4.1 Live Exchange Server export requirements	. 5
1.4.2 Live SQL Server export requirements	. 5
1.5 Limitations	. 5
1.6 Boundaries for optimal recovery and search	. 7
1.7 Customer support	. 7
2 Installation	. 8
2.1 Product activation	10
2.2 Updating the product	12
3 Opening a file	14
3.1 Finding a file	16
4 Axcient DirectRestore. SQL Server	18
4.1 Finding and browsing data	19
4.1.1 Browsing database tree	19
4.1.2 Using search	22
4.2 Exporting items	25
4.2.1 Restore to live SQL Server	26
4.2.2 Restore to SQL scripts	30
5 Axcient DirectRestore. Exchange Server	31
5.1 Special features	31
5.1.1 PST encoding	32

X



5.1.3 Showing deleted items	. 34
5.1.4 Display time	35
5.1.5 Showing notification panel	. 36
5.2 Finding and selecting messages, folders and mailboxes	. 38
5.2.1 Browsing mail store tree	. 38
5.2.2 Using search	. 41
5.3 Exporting items	50
5.3.1 Restore to original live Exchange Server. Standard mode	50
5.3.2 Restore to live Exchange Server. Expert mode	54
5.3.3 Working with clustered Exchange Server configuration	66
5.3.4 Restore to PST files	67
6 Command-line interface	. 70
7 Glossary	. 71

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

Х

- ⁽²⁾ Recovers entire tables, objects and object groups
- ⁽²⁾ Recovers data obtained by specific search queries
- () Recovers keys, scripts, functions, triggers and procedures
- ⁽²⁾ Recovers default settings, user types and views
- ⁽²⁾ Saves single or multiple points of data as SQL scripts or exports to live SQL database

Microsoft Exchange Server

- The Recovers mailboxes, folders, messages and file attachments
- ⑦ Recovers contents of Public Folder mailboxes
- ⑦ Recovers email addresses from Active Directory storage
- ⑦ Recovers notes, contacts, tasks and appointments
- ⑦ Recovers creation dates for all objects
- ② 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 CU9,2019 CU8, 2019 CU7, 2019 CU6, 2019 CU5, 2019 CU4, 2019 CU3, 2019 CU2, 2019 CU1, 2019, 2016 CU20, 2016 CU19, 2016 CU18, 2016 CU17, 2016 CU16, 2016 CU15, 2016 CU14, 2016 CU13, 2016 CU12, 2016 CU11, 22016 CU10, 016 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/bb124808(v=exchg.65).aspx</u>.

1.2 Supported Outlook versions

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

Note

OST file of 2013, 2016 version is not supported.



1.3 Supported SQL Server database versions

Axcient DirectRestore supports the following versions of MDF/BAK files (including Express edition): 2019, 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

Х

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.

ظ 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.



Х

 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.

劇	Axcient DirectRestore Setup 🗧 🗖 🗙	
3	Destination Folder Click Next to install to the default folder or click Change to choose another.	
	Install Axcient DirectRestore to:	
	C:\Program Files (x86)\Axcient\ Change	
	Create a shortcut for this program on the desktop.	
	Back Next Cancel	

5. Click **Install** to begin the installation. Click **Back** to change any of your installation settings. Click **Cancel** to exit the setup wizard.

 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.

2.1 Product activation

Х

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

E	nter your login and password.	Confirmation
Enter your le	ogin and password from the RMC Axcient w	eb site.
Login	Enter your RMC credentials	
Password	•••••	
	Forgot your password?	Don't have an account?
	Ca	ncel 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.

Enter your logir	and password.	Enter license key	Confirmation
Enter license ker	y and registration inf	ormation.	
License key:	Enter the Licens	e key, supplied after the purchase	
Name:	Enter your name		
Company:	Enter the name of	of the company (leave blank if the pr	ogram will be used for personal needs)
		Cancel Previ	ious Activate

Тір

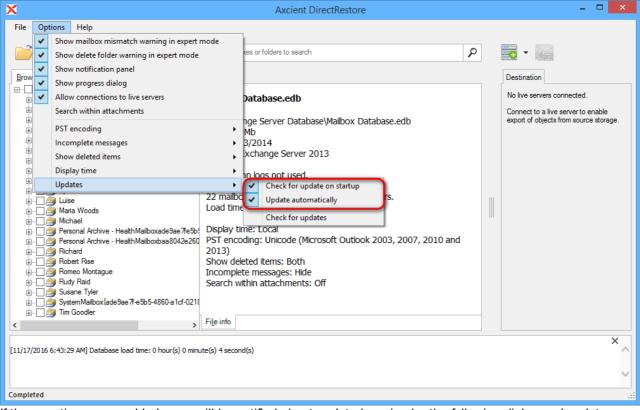
X

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

Х

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:

X Free update now available	×
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					Axcient DirectRestore	- 🗆 🗙
File		Show Show Show Show Allow Searc PST e Incor Show Displ: Upda Mark Pers Rob Rob Rob Rob State Sta	e a Woods ael onal Archive - Health Mailboxade9ae7fe5b1 onal Archive - Health Mailboxbaa8042e260 ard ard art Rise eo Montague	Load time Display ti PST enco Show del	Select mailboxes or folders to search Database.edb ge Server Database\Mailbox Database.edb Mb 3/2014 xchange Server 2013 nn logs not used. Check for update on startup Update automatically Frs.	_ □ ×
<		J Tîm (Goodler	Fi <u>l</u> e info		
Comple	eted					.::

3 Opening a file

Х

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:	\mu Exchange Ser	ver Database 🗸 🗸	G 🤌 📂 🖽 -	
æ	Name	*	Date modified	Туре
-	X Mailbox Data	3	8/16/2012 4:26 AM	Exchange Server
Recent places	X Mailbox Data	abase	3/13/2014 3:51 AM	Exchange Server
Desktop				
Libraries				
Marka Contraction (1997) This PC				
Network	<			>
	File name:	Mailbox Database	~	Open
	Files of type:	All supported formats (*.edb, *.pst, *	.ost, *.mdf, *.bak) ∨	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	3 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 – 🗖 💌		
Export into original Exchange mailbox Ctr	Select mailboxes or folders to search F ailbox Database.edb +S +S Exchange Server Database\Mailbox Database.edb +G te: 904 Mb te: 3/13/2014		
Cancel current operation Ctrl+N Ide: 3/13/2014 Open log folder ansaction logs not used. Delete saved temp files and logs ansaction logs not used. Exit Alt+X Maria Woods Michael Personal Archive - HealthMailboxade9ae 74e5b 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			
Rudy Raid 	0216		

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

X

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 – 🗖 🗙						
Fi	e Options Help							
	Open file Ctrl+ C							
	Recent	Select mailboxes or folders to search						
		ailbox Database.edb						
C								
		004 Mh						
Open file Ctrl+O								
	Cancel current operation Ctrl+N	rsion: Exchange Server 2013						
		ansaction logs not used.						
	Options Help Open file Ctrl+O Recent Select malboxes or folders to search Chrl+D Select malboxes or folders to search Second Select malboxes or folders to search ilibox Database.edb Exchange Server Database\Mailbox Database.edb Exchange Server Database\Mailbox Database.edb Exchange Server Database\Mailbox Database.edb Exchange Server Database Second Into original Exchange mailbox Ctrl+O Ctrl+O Exchange Server Database Second Into original Exchange mailbox Ctrl+O Exchange Server 2013 ansaction logs not used. mailboxes. Select a mailbox to display folders. and time: 00:00:04 Display time: Local PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Susane Tyler Susane Tyler System Malbox/ade/98e 74 e2b54860-a1d-0215							
	Exit Alt+X							
		PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Only non-deleted items Incomplete messages: Hide Search within attachments: Off						
Con	pleted							
	·							

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

×	5	Search for files to op	en		×
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.

×	9	Search for files to op	en			×
Select source: Local Disk (C:) New Volume (E:) Unmounted disk 1 (Volume{16739c74-5620-7	11e3-824b-806	e6f6e6963})			File types by application: Exchange Server (*.edb) Outlook (*.pst, *.ost) SQL Server (*.mdf, *.bak) Custom match:	
Add location to search	ited volumes)		Filter:	Example: *.edb;*.ost	>
File	Size	Date created	Date modified		Туре	
Open file				Start	search Exit	
Noto						

Note

Select a location to search in.

×	5	Search for files to op	en		×	
Select source:				File types by application: Exchange Server (*.edb) SQL Server (*.mdf, *.bak) Custom match: Example: *.edb;*.ost		
Add location to search Include unmour	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.

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

X	Search for files to open						
Select source:				File types by application: Exchange Server (*.edf Outlook (*.pst, *.ost) SQL Server (*.mdf, *.ba Custom match: Example: *.edb;*.ost			
Add location to search Include unmou	nted volumes	3		Filter: All	*		
File	Size	Date created	Date modified	Туре	^		
C:\Exchange Server Database\Mailbox Data.edb C:\Exchange Server Data\Mailbox Database.edb C:\AllTestScripts\Script\AC_edb.sj.bak C:\AllTestScripts\Script\AtC.sj.bak C:\AllTestScripts\Script\AtC.sj.bak C:\AllTestScripts\Script\AutoCheckGLSearch_edb.sj.bak C:\AllTestScripts\Script\AutoCheckSearch_edb.sj.bak C:\AllTestScripts\S\AutoCheckSearch_edb.sj.bak C:\AllTestScripts\S\AutoCheckSearch_edb.sj.bak	7.02 KB 8.65 KB 13.1 KB 17.6 KB 13.7 KB 18.6 KB 17.0 KB	6/22/2016 1/24/2016 5/20/2019 5/20/2019 5/20/2019 5/20/2019 5/20/2019 5/20/2019 5/20/2019	8/16/2012 3/13/2014 5/20/2019 5/20/2019 5/20/2019 5/20/2019 5/20/2019 5/20/2019 5/20/2019 5/20/2019	Exchange Server (*.edb) Exchange Server (*.edb) SQL Server (*.mdf, *bak) SQL Server (*.mdf, *bak)	↓ Exit		

Note

X

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.

X	Axcient DirectRes	tore –	×
File Options Help			
		Search	P
Browse			
AdventureWorks2012_CS_Data.mdf	Tables		
	71 objects. Select an object to displa	y data.	
	Fo <u>l</u> der info		
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				
Options Help							
<u>}</u>			Search in Pers	on.Address			
owse							
AdventureWorks2012_CS_Data.mdf	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
Programmability (4)	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE610000010
	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE610000010
dbo.AWBuildVersion (1) dbo.DatabaseLog (1.597)	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE610000010
dbo.DatabaseLog (1,597)	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE610000010
	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 Pay History	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE610000010
Human Resources. JobCandidate (13)	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.AddressType (6)	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE610000010
Person.BusinessEntity (20,777)	13	9265 La Paz	NULL	Bothell	79	98011	0xE610000010
Person.BusinessEntityAddress (19,614)	14	8157 W. Book	NULL	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)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE610000010
Person.Person (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)	20	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE610000010
>	<						2

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 Direc	tRestore				
le Options Help							
j			Search in Pers	on.Address			
rowse Model AdventureWorks2012_CS_Data.mdf				-			
	▲ AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
" "	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE610000010
dbo.AWBuildVersion (1)	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE610000010
dbc.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
	en/ 7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE610000010
		6387 Scenic Avenue	NULL	Bothell	79	98011	0xE610000010
Human Resources. JobCandidate (13)	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.Add Show SQL scrip	t J	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE610000010
Person.BusinessEntity (20,777)	13	9265 La Paz	NULL	Bothell	79	98011	0xE610000010
Person.BusinessEntityAddress (19,61	⁴⁾ 14	8157 W. Book	NULL	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)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE610000010
Person.Person (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	0xE610000010
	> <						>

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	tkestore				
e Options Help							
2			Search in Pers	son.Address			
owse							
AdventureWorks2012_CS_Data.mdf	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
+ Programmability (4)	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE61000001
	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE610000001
dbo.AWBuildVersion (1)	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE610000001
dbo.DatabaseLog (1,597) dbo.ErrorLog (0)	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE610000001
dbo.ErrorLog (0) Human Resources.Department (16)	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE610000001
Human Resources. Employee (290)	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE610000001
Human Resources.Employee (200)	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE610000001
	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE610000001
Human Resources. Job Candidate (13)	9	0710.1/		Bothell	79	98011	0xE610000001
Human Resources. Shift (3)	10	Copy SQL script to clipb	oard	Bothell	79	98011	0xE610000001
Person.Address (19,614)	11	Show SQL script		Bothell	79	98011	0xE610000001
Person.AddressType (6)	12	Search for similar data		Bothell	79	98011	0xE610000001
Person.BusinessEntity (20,777)	13		Bothell		79	98011	0xE610000001
Person.BusinessEntityAddress (19,614)	14	Search for data related to	o [AddressID]	Bothell	79	98011	0xE610000001
Person.BusinessEntityContact (909)	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE610000001
Person.ContactType (20)	16	40 Ellis St.	NULL	Bothell	79	98011	0xE610000001
Person.CountryRegion (238)	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE610000001
····· Person EmailAddress (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE61000001
Person.Password (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE61000001
Person Person (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE61000001
Person Phone Number Type (3)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE61000001
Person.StateProvince (181)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE61000001
Production.BillOfMaterials (2,679)	23	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE61000001
Production.Culture (8)	24	80 Sunview Terrace	NULL	Duluth	36	55802	0xE61000001
Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73	75201	0xE61000001
Production.Illustration (5)	26	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE61000001
>	<						

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	DirectRest	ore				- 🗆 🗙
File Options Help								
				Search in Pers	on.Address			٦
File Options Help Search in Person.Address Search in Person.Address Browse AdventureWorks2012_CS_Data.mdf AddressLine 1 AddressLine 2 City StateProvinceID PostalCode SpatialLocation Browse								
	AddressID	AddressLine 1 AddressLine 2 City StateProvinceID PostalCode SpatialLocation 6872 Thomwood Dr. NULL Bothell 79 98011 0xE610000010CI 5669 Ironwood Dr. NULL Bothell 79 98028 0xE610000010CI 5917 Meniewood Dr. NULL Sonhomish 79 98272 0xE610000010CI 5917 Meniewood Drive NULL Sonhomish 79 98272 0xE6100000010CI 5917 Meniewood Drive NULL Durvall 79 98272 0xE6100000010CI 5933 Meliowood Street NULL Durvall 79 98014 0xE6100000010CI 390 Ridgewood Ct. NULL Camation 79 98014 0xE6100000010CI 390 Ridgewood Ct. NULL Camation 79 98014 0xE6100000010CI 390 Ridgewood Ct. NULL Camation 79 98014 0xE6100000010CI 390 Ridgewood Ct. NULL Sonhomish 79 98014 0xE6100000010CI Sonhomish Sonhomish <td>SpatialLocation</td>	SpatialLocation					
	20	6872 Thomwood Dr.	٨	IULL	Bothell	79	98011	0xE6100000010C034
	46	5669 Iron <mark>woo</mark> d Way	٨	IULL	Kenmore	79	98028	0xE6100000010C76A
	55	591 Merrie <mark>woo</mark> d Drive	۰ <u>۸</u>	IULL	Snohomish	79	98296	0xE6100000010C104
	61	7726 Drift <mark>woo</mark> d Drive	۸	IULL	Monroe	79	98272	0xE6100000010CC44
	77	9693 Mellowood Stree	et Λ	IULL	Duvall	79	98019	0xE6100000010C2D6
	AddressID AddressLine 1 AddressLine 2 C 20 6872 Thom/wood Dr. NULL B 46 5669 iron/wood Dr. NULL K 55 591 Meniewood Drive NULL K 61 7726 Driftwood Drive NULL D 86 390 Ridgewood Street NULL D 86 390 Ridgewood Ct. NULL D 90 Iddeessed Ct. NULL D 91 Iddeessed Ct. Iddeessed Ct. Iddeessed Ct. 91 Iddeessed Ct. Iddeessed Ct. Iddeessed Ct. 914 Iddeessed Ct. Iddeessed Ct. Iddeessed Ct. 914 <td< td=""><td>Camation</td><td>79</td><td>98014</td><td>0xE6100000010C8B7</td></td<>	Camation	79	98014	0xE6100000010C8B7			
	Address/like AddressLine 1 AddressLine 2 Ctry StateProvinceID PostalCode SpatialLocati mmability (4) (7) AddressLine 1 AddressLine 2 Ctry StateProvinceID PostalCode SpatialLocati 0.04XBuldVersion (1) 0.04XBuseLog (1.597) 6672 Thom Wood VWay NULL Bothell 79 98028 CkcE1000000 0.04XBuddVersion (1) 0.04XBuddVersion (1) 0.04XBuddVersion (1) 55191 Memerewood VWay NULL Kennore 79 98028 CkcE1000000 man/Resources.Employee (20) man/Resources.Employee (PayHatory man/Resources.Sthill (20) man.Address (19.614) roon.DusinessEntly CACTR (100) man.Address (19.772) roon.DusinessEntly CaCTR (100) roon.Catter (19.772) roon.Person (19							
	AddressID AddressLine 1 AddressLine 2 City St. 20 6872 Thomwood Dr. NULL Bothell 79 46 5669 Ironwood Dr. NULL Kenmore 79 55 591 Memewood Drive NULL Snohomish 79 61 7726 Driftwood Drive NULL Morrore 79 77 9633 Mellowood Street NULL Duvall 79 86 390 Ridgewood Ct. NULL Camation 79 86 390 Ridgewood Ct. NULL Camation 79 96 1 1 1 1 1 1 96 390 Ridgewood Ct. NULL Camation 79 96 390 Ridgewood Ct. NULL Camation 79 96 1 1 1 1 1 1 96 1 1 1 1 1 1 1 97 390 Ridgewood Ct. 1 1 1 1 1 1 1 1 1 1 1 1							
	_							
Person.PhoneNumberType (3)								
Person.StateProvince (181)								
	woo		Where: All		~			T
								•
	Filter: or	n Select filt	ered items					
						_		
	Address/Line 1 Address/Line 2 Chy StateProvinceID PostalCode SpatialLocati V14 0 6872 Thomwood Dr. N/L/L Bothell 79 98011 OxE61000000 V14 5669 forwood Dr. N/L/L Kernore 79 98028 OxE61000000 V14 55 591 Mereiwood Drive N/L/L Sorhomish 79 98226 OxE61000000 V17 9633 Melowood Street N/L/L Dural 79 98019 OxE61000000 V17 9633 Melowood Street N/L/L Dural 79 98014 OxE61000000 V10 9633 390 Ridgewood C: N/L/L Camation 79 98014 OxE61000000 V10 9633 90 Ridgewood C: N/L/L Camation 79 98014 OxE61000000 V10 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 9	>						
Completed								

Х



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 Direc	tRestore				
ile Options Help							
<u> </u>			Search in Pers	on.Address			
Browse							
- AdventureWorks2012_CS_Data.mdf	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
Programmability (4)	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE6100000100
	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	0xE6100000010C
dbo.DatabaseLog (1,597)	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE610000010C
	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE610000010C
Human Resources. Employee (290)	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE610000010C
Human Resources.Employee Departmen	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE610000010C
Human Resources. Employee Pay History	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE6100000100
Human Resources. JobCandidate (13)	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE6100000100
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	0xE61000000100
Person.AddressType (6)	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE61000000100
Person.BusinessEntity (20,777)	13	9265 La Paz	NULL	Bothell	79	98011	0xE61000000100
Person.BusinessEntityAddress (19,614)	14	8157 W. Book	NULL	Bothell	79	98011	0xE61000000100
Person.BusinessEntityContact (909)	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE61000000100
Person.ContactType (20)	16	40 Ellis St.	NULL	Bothell	79	98011	0xE6100000100
Person.CountryRegion (238)	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE6100000100
Person.EmailAddress (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE6100000100
Person.Person (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE610000010C
Person.PersonPhone (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE610000010C
Person, Phone Number Type (3)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE610000010C
Person.StateProvince (181)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE610000010C
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
Production.Illustration (5)	20	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE610000010C
>	<						>

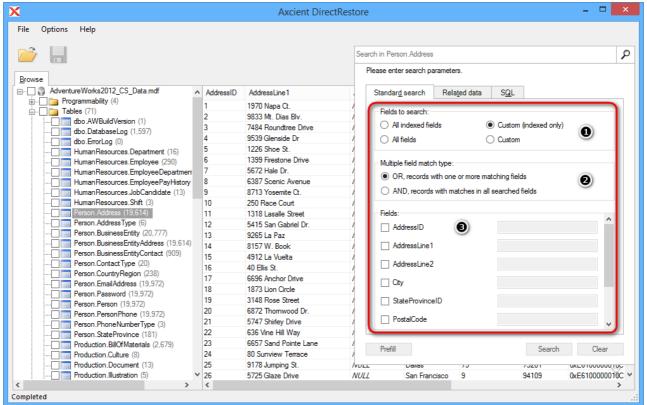
Search results will be displayed on separate tabs with the ability to select query results and export them either into Live SQL Server or in the form of SQL script files which can be executed on server manually.

		Axcient Dire	ctRestore					
e <u>O</u> ptions <u>H</u> elp								
7			Search in	Person.Ad	dress			T
owse Search 1 ×								
Person.Address	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation	
	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE6100000010CAE8BFC	28
	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE6100000010CD6FA85	1A
	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE6100000010C18E3040	C4
	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE6100000010C813A0D	5F
	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE6100000010C61C64D	8A
	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE6100000010CE0B4E5	04
	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE6100000010C18E3040	C4
	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE6100000010C0029A50	D9
	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE6100000010C6A80AD	74
	10	250 Race Court	NULL	Bothell	79	98011	0xE6100000010C219D64/	AE
	11	1318 Lasalle Street	NULL	Bothell	79	98011	0xE6100000010CCEFFBB	FC
	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE6100000010C6A80AD	74
	13	9265 La Paz	NULL	Bothell	79	98011	0xE6100000010CC3228C	08
	14	8157 W. Book	NULL	Bothell	79	98011	0xE6100000010C219D64/	AE
	15	4912 La Vuelta	NULL	Bothell	79	98011	0xE6100000010C219D64/	AE
	16	40 Ellis St.	NULL	Bothell	79	98011	0xE6100000010CF76E458	EF
	17	6696 Anchor Drive	NULL	Bothell	79	98011	0xE6100000010C034C758	E4(
	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE6100000010C219D64/	AE
	19	3148 Rose Street	NULL	Bothell	79	98011	0xE6100000010C813A0D	5F
	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE6100000010C034C75E	E4(
	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE6100000010CEB9115	FA
	40	1902 Santa Cruz	NULL	Bothell	79	98011	0xE6100000010C96D19C	3E
	834	99300 223rd Southeast	NULL	Bothell	79	98011	0xE6100000010C5755A52	215
	868	25111 228th St Sw	NULL	Bothell	79	98011	0xE6100000010C6552336	6E1
	18249	5509 Newcastle Road	NULL	Bothell	79	98011	0xE6100000010C0029A50	D9
	26486	7057 Striped Maple Court	NULL	Bothell	79	98011	0xE6100000010C034C75E	E40
	<							2

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.

X		Axcient Direct	Restore				- 🗆 🗙
File Options Help							
			Search in Pe	rson.Address			P
Browse			Please er	nter search para	meters.		
	∧ AddressID	AddressLine1	Standa	ar <u>d</u> search	Related data	SQL	
🖶 📄 Programmability (4)	1	1970 Napa Ct.					
🖕 🗋 🛅 Tables (71)	2	9833 Mt. Dias Blv.	Field	s:			
dbo.AWBuildVersion (1)	3	7484 Roundtree Drive	Add	dressID			0
dbo.DatabaseLog (1,597)	4	9539 Glenside Dr					<u> </u>
dbo.ErrorLog (0) Human Resources.Department (16)	5	1226 Shoe St	Rela	ted tables:			
Human Resources. Employee (290)	6	1399 Firestone Drive		Person.Business	sEntityAddress [A	(ddressID)	2
Human Resources.Employee (200)	7	5672 Hale Dr.					_
Human Resources.EmployeePayHistory	8	6387 Scenic Avenue		Sales.SalesOrde	erHeader [BillTo <i>A</i>	AddressID]; [Ship To Add	ressID]
Human Resources. JobCandidate (13)	9	8713 Yosemite Ct.					
Human Resources. Shift (3)	10	250 Race Court					
Person.Address (19,614)	11	1318 Lasalle Street					
Person.AddressType (6)	12	5415 San Gabriel Dr.					
Person.BusinessEntity (20,777)	13	9265 La Paz					
Person.BusinessEntityAddress (19,614)	14	8157 W. Book					
Person.BusinessEntityContact (909)	15	4912 La Vuelta	/				
Person.ContactType (20)	16	40 Ellis St.					
Person.CountryRegion (238)	17	6696 Anchor Drive	/				
Person EmailAddress (19,972)	18	1873 Lion Circle	/				
Person.Password (19,972)	19	3148 Rose Street	/				
Person.PersonPhone (19,972)	20	6872 Thomwood Dr.	/				
Person.PhoneNumberType (3)	21	5747 Shirley Drive	/				
Person.StateProvince (181)	22	636 Vine Hill Way					
Production.BillOfMaterials (2.679)	23	6657 Sand Pointe Lane	1				CI.
Production.Culture (8)	24	80 Sunview Terrace	Prefil	1		Search	Clear
Production.Document (13)	25	9178 Jumping St.	WOLL	Dallas	15	73201	UKEOTOOOOOTOC
Production.Illustration (5)	✓ 26	5725 Glaze Drive	NULL	San Francis	со 9	94109	0xE6100000010C ¥
< >	<						>
Completed							

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).

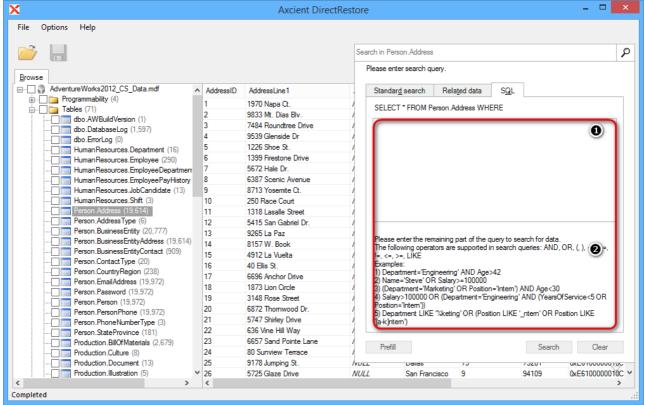


The user will then be able to enter field values which will be used when searching for related data and select from a list of tables where to perform search.

SQL Query mode

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.
- Browsing folder hierarchy of a connected database, browsing folder contents and viewing objects and rows.
- 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

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.

Options Help						
Show notification panel						
Show progress dialog	Search in P	erson.Address			P	
Allow connections to live servers						
v Updates →	AddressID	Addressl ine1		~	Stat ^	Destination
+ Programmability (4)	AddressID		AddressLine2	City		No live servers connected.
Tables (71)	1	1970 Napa Ct.	NULL	Bothell	79	Connect to a live server to enable
dbo.AWBuildVersion (1)	2	9833 Mt. Dias Blv.	NULL	Bothell	79	export of objects from source storag
dbo.DatabaseLog (1,597)	3	7484 Roundtree Drive	NULL	Bothell	79	
dbo.ErrorLog (0)	4	9539 Glenside Dr	NULL	Bothell	79	
Human Resources. Department (16)	5	1226 Shoe St.	NULL	Bothell	79	
Human Resources. Employee (290)	6	1399 Firestone Drive	NULL	Bothell	79	
Human Resources. Employee Departmen	7	5672 Hale Dr.	NULL	Bothell	79	
Human Resources. Employee Pay History	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 Address Type (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)	18	1873 Lion Circle	NULL	Bothell	79	
Person.Password (19,972)	19	3148 Rose Street	NULL	Bothell	79	
Person.Person (19,972) Person.PersonPhone (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	
Person.PersonPhone (19,972)	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	ji v	
	<	STED GIGES DIVE	NOLL	CarrinanoiaCO	>	

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 – 🗖 🗙
File			0
	Open file Ctr		
	Recent	•	arch P
	Close file		Destination
	Reload database using transaction logs		
	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 export of objects from source storage.
	Save selected objects into SQL scripts Ctr	1+5	Ze: 188 MD
	Export into live server Ctr		ate: 5/21/2012 ersion: SQL Server 2012
	Cancel current operation Ctr	l+N	
	Open log folder		ansaction logs not used.
	Delete saved temp files and logs		tables. Select a table to display records
			ad time: 00:00:02
		t+X	
	Person Address Type (6)		
	Person.BusinessEntity (20,777)	14)	
	Person.BusinessEntityContact (909)		
	Person.ContactType (20)		
	Person.CountryRegion (238) Person.EmailAddress (19,972)		
	Person.Password (19,972)		
	Person.Person (19,972)		
	Person.PersonPhone (19,972)		
	Person.StateProvince (181)		
	Production.BillOfMaterials (2,679)		
	Production.Culture (8)		▼ I
	Production.Document (13)	v .	< >>
<		> F	ile info
Comp	leted		

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 192.168 WS2012SQL SQL2016ENTER WS2012SQL	.0.5\MSSQLSERVER):
 ✓ Use current Windows credentials SQL Server login (ex.: user1): Password: Save password 	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:	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.

X

X Connect t	to SQL Server
Server name (ex.: contoso.com\MSSQLSERVER or 192.16 WS2012SQL Use current Windows credentials SQL Server login (ex.: user1): Rick Password: Save password Save password	■ Refresh 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: AdventureWorks2012	Connect Cancel

Injection workflow

Х

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

		P	= - 🖂			
AddressID	Address ine 1	Destination		AddressID	Address line 1	A
Addressib				Addressib		
1		- 49		1		٨
_				-		٨
-		1	dbo.AWBuildVersic			٨
						٨
10) -			dbo.ErrorLog (0)	-		۸
0) 6	1399 Firestone Driv		Human Resources.	6		Λ
aunen *	5672 Hale Dr.			7	5672 Hale Dr.	٨
History 8	6387 Scenic Avenu			8	6387 Scenic Avenue	٨
(13) 9	8713 Yosemite Ct.			9	8713 Yosemite Ct.	Λ
10	250 Race Court		Human Resources.	10	250 Race Court	٨
11	1318 Lasalle Street		Human Resources.	11	1318 Lasalle Street	٨
12	5415 San Gabriel D		Person.Address (1	12	5415 San Gabriel Dr.	٨
13	9265 La Paz			13	9265 La Paz	٨
19,614) 14	8157 W. Book			14	8157 W. Book	٨
(09) 15	4912 La Vuelta		Person.BusinessEn	15	4912 La Vuelta	٨
16	40 Ellis St.			16	40 Ellis St.	N
17	6696 Anchor Drive			17	6696 Anchor Drive	N
18						N
						Ň
						Ň
						^
						Ň
						Ň
						^^
						A
					5725 Glaze Drive	v. S
	(13) (14) (15) (15) (13) (13) (13) (14) (14) (15) (15) (16) (17) (17) (16) (17)	9.6000000 9.60000000 1 1970 Napa Ct. 2 9833 Mt. Dias Blv. 3 7484 Roundtree Dri 4 9539 Gienside Dr 5 1226 Shoe St. 6 1399 Firestone Driv attmern 6387 Scenic Avenu 9 8713 Yosemite Ct. 10 250 Race Court 11 1318 Lasalle Street 12 5415 San Gabriel D 13 9265 La Paz 14 8157 W. Book 15 4912 La Vuelta 16 40 Ellis St. 17 6696 Anchor Drive 18 1873 Lion Circle 19 3148 Rose Street 20 6872 Thornwood D 21 5747 Shirley Drive 22 636 Vine Hill Way 23 6657 Sand Pointe L 24 80 Sunview Terraci 25 9178 Jumping St. 26 5725 Giaze Drive<	1 1970 Napa Ct. 2 9833 Mt. Dias Biv. 3 7484 Roundtree Dri 4 9539 Glenside Dr 5 1226 Shoe St. 0) 6 6 1399 Firestone Driv 7 5672 Hale Dr. 8 6337 Scenic Avenu 9 8713 Yosemite Ct. 10 250 Race Court 11 1318 Lasalle Street 12 5415 San Gabriel D 13 9265 La Paz 14 8157 W. Book 15 4912 La Vuelta 16 40 Ellis St. 17 6696 Anchor Drive 18 1873 Lion Circle 19 3148 Rose Street 20 6872 Thomwood D 21 5747 Shirley Drive 22 636 Vine Hill Way 23 6657 Sand Pointe L 24 80 Sunview Terract 25 9178 Jumping St. 26 5725 Glaze Drive	1 1970 Napa C. 2 9833 Mt. Dias Biv. 3 7484 Roundtree Dri 4 9539 Glenside Dr 5 1226 Shoe St. 0 6 6 1399 Frestone Driv attmer 7 7 5672 Hale Dr. History 8 9 8713 Yosemite Ct. 10 250 Race Cout 11 1318 Lasalle Street 12 5415 San Gabriel D 13 9265 La Paz 14 8157 W. Book 15 4912 La Vueta 16 40 Elis St. 17 6696 Anchor Drive 18 1873 Lion Circle 19 3148 Rose Street 20 6872 Thornwood D 21 5747 Shirley Drive 22 636 Vine Hill Way 23 6657 Sand Pointe L 24 80 Sunview Terract 25 9178 Jumping St. 26 5725 Glaze Drive	1 1970 Napa C. 2 9833 Mt. Dias Biv. 3 7484 Roundtree Dri 4 9539 Glenside Dr 5 1226 Shoe St. 0 6 6 1399 Pirestone Driv attmeri 7 7 5672 Hale Dr. History 8 9 8713 Yosemite C. 10 250 Race Court 11 1318 Lasalle Street 12 5415 San Gabriel D 13 9265 La Paz 14 8157 W. Book 15 4912 La Vuelta 16 40 Blis St. 17 6696 Anchor Drive 18 1873 Lion Circle 19 3148 Rose Street 20 6872 Thomwood D 21 5747 Shirley Drive 22 636 Vine Hill Way 23 6657 Sand Pointe L 24 80 Sunview Terract 25 9178 Jumping St. 26 5725 Glaze Drive × 26 5725 Glaze Drive ×	1 1970 Napa C. 2 9833 Mt. Dias Biv. 3 7484 Roundtree Dri 4 9539 Glenside Dr 5 1226 Shoe St. 6 1399 Frestone Drive 4 9539 Glenside Dr 5 1226 Shoe St. 6 1999 Frestone Drive 4 9539 Glenside Dr 5 1226 Shoe St. 6 1999 Frestone Drive 4 939 Slenside Dr 5 1226 Shoe St. 6 1999 Frestone Drive 4 939 Frestone Drive 4 1389 Frestone Drive 9 8713 Yosemite Ct. 10 250 Race Court 11 1318 Lasalle Street 12 5415 San Gabriel D 13 9265 La Paz 16 40 Ellis St. 17 6696 Anchor Drive 18 1873 Lion Circle 19 3148 Rose Street 20 6357 Sand Pointe L 21 5747 Shirley Drive

Axcient DirectRestore presents several injection modes for specified data:

• Export to original object - The source object will be restored to the object listed und 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.

×	Export into live S0	QL Server	– 🗆 🗙
Destination database: WS2012SQL\AdventureWorks Object names are valid. Click			~
Source object	Destination object	Status	Action
[Person].[Address]	[Person].[Address]	vá Source table found	<u>Remove</u>
Export to original object (creating)	eate if not exists) 🛛 Export to new object	t 🔿 Schema only	
Unselect successfully expo	rted objects	Start	Cancel



4.2.2 Restore to SQL scripts

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				- □ <mark>×</mark>
e Options Help							
			Search in Pers	son.Address			۶
rowse							
	AddressID	AddressLine1	AddressLine2	City	StateProvinceID	PostalCode	SpatialLocation
"···· "	1	1970 Napa Ct.	NULL	Bothell	79	98011	0xE6100000010C.
dbo.AWBuildVersion (1)	2	9833 Mt. Dias Blv.	NULL	Bothell	79	98011	0xE6100000010C
dbo.DatabaseLog (1,597)	3	7484 Roundtree Drive	NULL	Bothell	79	98011	0xE6100000010C
dbo.ErrorLog (0)	4	9539 Glenside Dr	NULL	Bothell	79	98011	0xE6100000010C
Human Resources. Department (16)	5	1226 Shoe St.	NULL	Bothell	79	98011	0xE610000010C
Human Resources. Employee (290)	6	1399 Firestone Drive	NULL	Bothell	79	98011	0xE6100000010C
	7	5672 Hale Dr.	NULL	Bothell	79	98011	0xE6100000010C
	8	6387 Scenic Avenue	NULL	Bothell	79	98011	0xE610000010C
Human Resources. JobCandidate (13)	9	8713 Yosemite Ct.	NULL	Bothell	79	98011	0xE610000010C
HumanResources.Shift (3)	10	250 Race Court	NULL	Bothell	79	98011	0xE6100000010C
Person.Address (19,614) Person.AddressType (6)	11	1318 Lasalle Street	NULL	Bothell	79	98011	0xE6100000010C
Person.BusinessEntity (20,777)	12	5415 San Gabriel Dr.	NULL	Bothell	79	98011	0xE6100000010C
Person.BusinessEntityAddress (19,614)	13	9265 La Paz	NULL	Bothell	79 79	98011	0xE6100000010C
Person.BusinessEntityContact (909)	14	8157 W. Book	NULL	Bothell		98011	0xE6100000010C
Person.ContactType (20)		4912 La Vuelta 40 Ellis St.	NULL	Bothell	79 79	98011	0xE6100000010C
Person.CountryRegion (238)	16 17	40 Ellis St. 6696 Anchor Drive	NULL	Bothell	79	98011 98011	0xE6100000010C 0xE6100000010C
Person.EmailAddress (19,972)	18	1873 Lion Circle	NULL	Bothell	79	98011	0xE6100000010C
Person.Password (19,972)	19	3148 Rose Street	NULL	Bothell	79	98011	0xE6100000010C
Person.Person (19,972)	20	6872 Thomwood Dr.	NULL	Bothell	79	98011	0xE6100000010C
Person.PersonPhone (19,972)	21	5747 Shirley Drive	NULL	Bothell	79	98011	0xE6100000010C
Person.PhoneNumberType (3)	22	636 Vine Hill Way	NULL	Portland	58	97205	0xE6100000010C
Production.BillOfMaterials (2,679)	23	6657 Sand Pointe Lane	NULL	Seattle	79	98104	0xE6100000010C
Production.Culture (8)	24	80 Sunview Terrace	NULL	Duluth	36	55802	0xE6100000010C
Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73	75201	0xE6100000010C
Production.Illustration (5)	✓ 26	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE6100000010C
>	<				-		>
npleted				S	elected: 1 object(s)		
start exporting process, select Select o		ation folder or cre tion folder	eate a new o	one and c	click OK.		
Selected data will be saved into SQI destination folder or create a new or immediately.				art			
Documents				^			
🐌 Downloads							
Favorites							
🕞 Links							
🜗 Music							
Pictures							

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).

		Axcient Direc	tRestore				
le Options Help							
			Search in Pers	son.Address			
rowse							
AdventureWorks2012_CS_Data.mdf	AddraeeID	Addreeel ine 1	Addraeel ina?	City	StateProvinceID	PostalCode	SpatialLocation
🗄 🗹 🛅 Programmability (4)		Progre	SS		79	98011	0xE61000000100
					79	98011	0xE61000000100
dbo.AWBuildVersion (1)	-	1			79	98011	0xE6100000100
····· ✓ dbo.DatabaseLog (1,597)	Exportin	g objects 94%			79	98011	0xE6100000100
····· ✓ dbo.ErrorLog (0) ····· ✓ Human Resources.Department (16)	6				79	98011	0xE6100000100
Human Resources.Employee (290)	Tables	71			79	98011	0xE6100000100
Human Resources.Employee Departmer	Indexes	93			79	98011	0xE6100000100
✓ Human Resources.EmployeePayHistory	Constrai	nts 71			79	98011	0xE6100000100
Human Resources JobCandidate (13)	Types	6			79	98011	0xE61000000100
Human Resources.Shift (3)	Rows	716,922			79	98011	0xE6100000100
Person.Address (19,614)	Read sp	eed 459 KB/s			79	98011	0xE6100000100
Person.AddressType (6)	Elapsed	time 00:01:33			79	98011	0xE6100000100
Person.BusinessEntity (20,777)					79	98011	0xE6100000100
Person.BusinessEntityAddress (19,614)					79	98011	0xE6100000100
Person.BusinessEntityContact (909)					79	98011	0xE6100000100
Person.ContactType (20)	Constant	ment operation 2			79	98011	0xE6100000100
Person.CountryRegion (238)	Cancel co	urrent operation			79	98011	0xE6100000100
····· ✓ Person.EmailAddress (19,972) ····· ✓ Person.Password (19,972)	Show	w the dialog next time		Close	79	98011	0xE6100000100
✔ Person.Password (19,972)			L		79	98011	0xE6100000100
Person.PersonPhone (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	0xE6100000100
Production.Document (13)	25	9178 Jumping St.	NULL	Dallas	73	75201	0xE61000000100
Production.Illustration (5)	✓ 26	5725 Glaze Drive	NULL	San Francisco	9	94109	0xE6100000100
>	<						>

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 destination folder or create a new one and click OK. The export process will start immediately.	n
A 🐌 Recovered	^
LIENT-PC	
Recovered_session1	
Recovered_session2	
Recovered_session3	
Recovered_session4	
Recovered_session5	
Recovered_session6	
DestComplete Testplans	~
PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013)	7
Make New Folde ANSI (Microsoft Outlook 2003, 2007, 2010 and 2013) ANSI (Microsoft Outlook 2002 and earlier)	

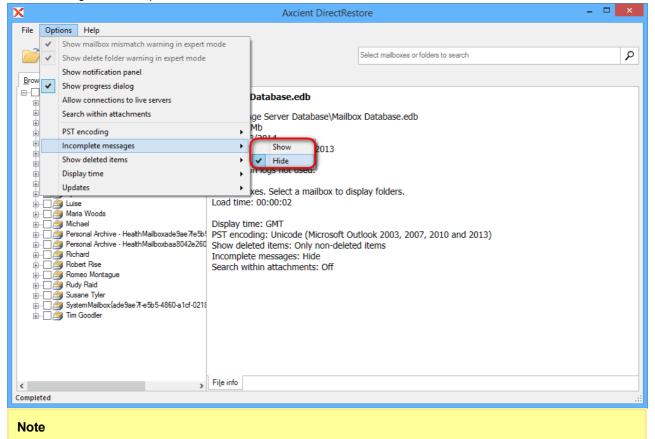
Alternatively, encoding for the output file can be changed in the **Options** menu at any time the program runs. Selected value will be saved and used on the next program launch.

	-
File Options Help Show mailbox mismatch warning in expert mode Show delete folder warning in expert mode Show notification panel Show notification panel Brow Show rogress dialog Allow connections to live servers Search within attachments Brow PST encoding PST encoding Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Allow connections to live servers Search within attachments Biplay time Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Allow tools In logs not used. Updates Vest Passonal Archive - Health Malboxade9ae 74-56 Pst encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Display time: GMT Personal Archive - Health Malboxade9ae 74-56 Pst encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Conjg: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Conjg: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Presonal Archive - Health Malboxade9ae 74-56 Show deleted items: Conjg: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Onicode (Microsoft Outlook 2003, 2007, 2010 and 2013) Show deleted items: Conjge: Conjge: Conjge: Conjge: Conjge: Conjge: Conjge: Conjge:	
Completed	

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.

X	Axcient DirectRe	estore		_ 🗆 🗙
File Options Help				
泸 📕 💐		Search	in Andrew Wait	P
Browse				
Builder Data.edb	Subject	From	То	Created
	JESSICA I am sony thou ABHORSON Do you call	Dalia Michael	Romeo Montague; Tim Goodler; Maria Andrew Wait; Susane Tyler; Juliet Cap	
Journal (0) Junk E-Mail (0) Notes (0)				
□ □ ⑦ Tasks (0) □ □ ② Andy Kort □ □ ② Brian				
⊕				
B				
ia				
				7
Completed				×
completed				

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

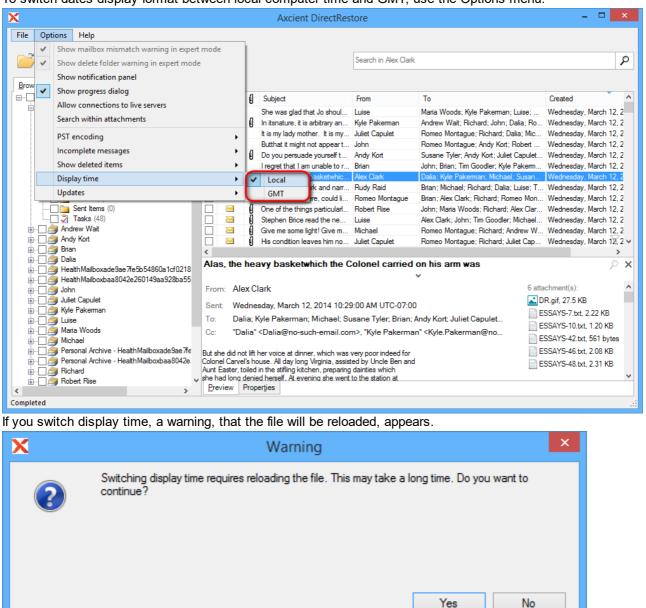
Items, stored in the folder Deletions, cannot be recovered to live Exchange Server database. It is recommended to restore items from the Deletion folder to PST and then import to live Exchange Server.

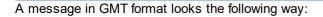
5.1.4 Display time

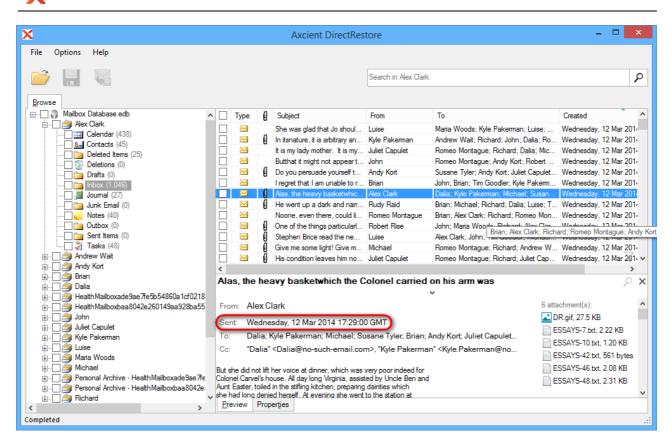
Х

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.

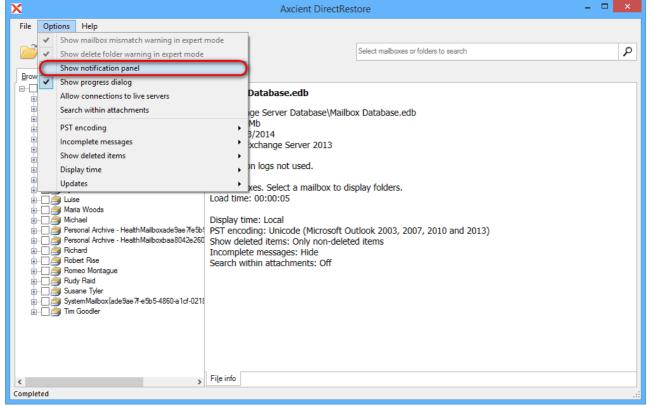




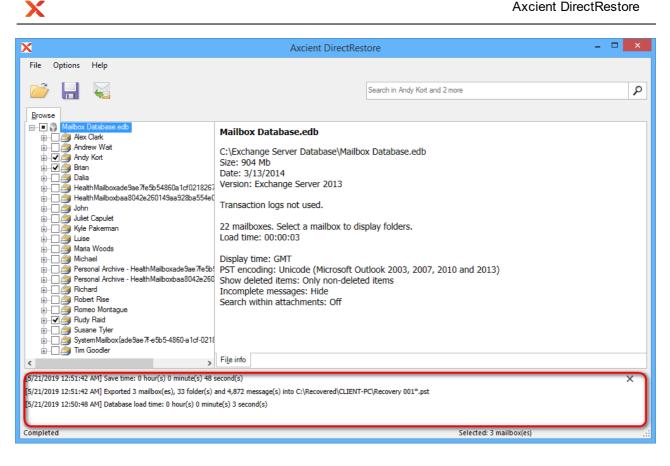


5.1.5 Showing notification panel

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.

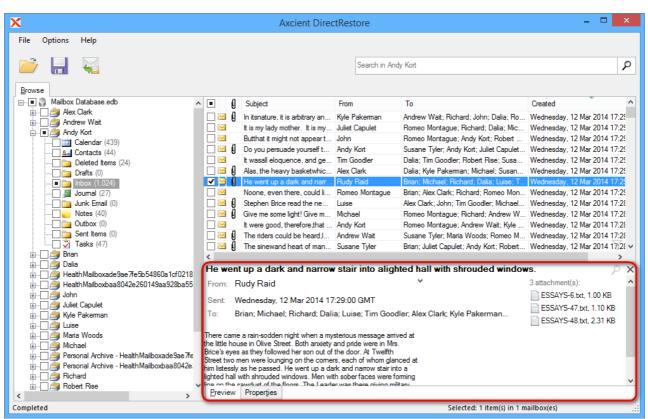
Х

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.

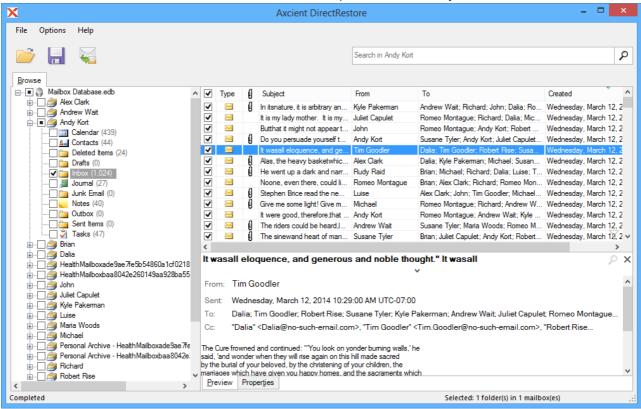
This mode is best for navigating to specific mailboxes, folders and messages when it is precisely known what data needs to be extracted.

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.

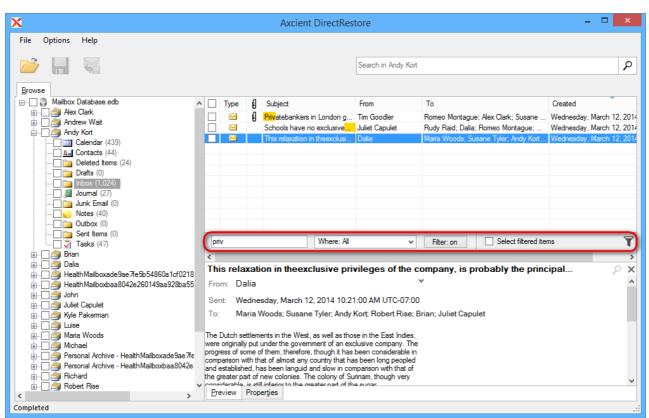


There is a check box next to the message. Check it to mark the message for export.

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



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.

Х

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		×
ile Options Help	Axcient DirectRestore Search in Andy Kot Image: Subject Search in Andy Kot Image: Search in Andy Kot <th>To ndrew Wait; Ric omeo Montague usane Tyler; An alia; Tim Goodle alia; Kyle Paken tan; Michael; Ri tan; Aex Clark; ex Clark; John; omeo Montague usane Tyler; Ma tran; Juliet Capu ↓ PA X tachment(s): ▲ ESSAYS-2.txt, ESSAYS-2.txt, ESSAYS-2.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt,</th> <th></th>	To ndrew Wait; Ric omeo Montague usane Tyler; An alia; Tim Goodle alia; Kyle Paken tan; Michael; Ri tan; Aex Clark; ex Clark; John; omeo Montague usane Tyler; Ma tran; Juliet Capu ↓ PA X tachment(s): ▲ ESSAYS-2.txt, ESSAYS-2.txt, ESSAYS-2.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt, ESSAYS-4.txt,	



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.

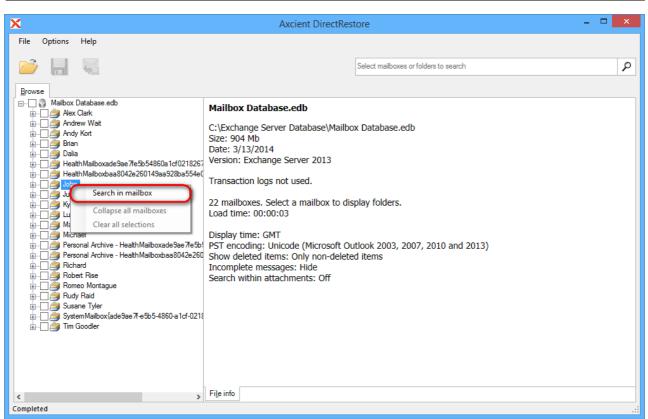
The best application of search mode is when the location and/or number of items to extract is not known exactly. Using keyword search, it is possible to narrow down on specific messages, folders and mailboxes. The quickest way to get search results is clicking on a particular mailbox, entering some keywords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

Search results will be displayed on a separate tab.

[Axcient DirectRestore -										
File Options Help												
				Search in user-defined	l locations: wait							
Browse Search: «wait» (977) ×												
	_ Туре	Location	Ø	Subject	From	То						
🖮 🗌 🎒 Alex Clark (977)		\Alex Clark\Calendar		would revenges,	Andrew Wait	Andrew Wait; Dalia; Susane Tyler; Mar						
Calendar (274)		\Alex Clark\Calendar			Robert Rise	Robert Rise: Romeo Montague: Brian:						
Contacts (1)		\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		will	Andrew Wait	Andrew Wait; Richard; Andy Kort; Tim						
V Tasks (1)		\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		f thou	Brian	Brian: Romeo Montague: John: Andre						
		\Alex Clark\Calendar			Kyle Pakerman	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	A		Alex Clark	Juliet Capulet; Tim Goodler; Michael; B						
		\Alex Clark\Calendar		However thenigger got	Luise	Luise; Brian; Michael						
		\Alex Clark\Calendar	1	Richard not	John	John; Richard; Susane Tyler; Maria W						
		\Alex Clark\Calendar	1	How	Juliet Capulet	Juliet Capulet; Andrew Wait; Alex Clark						
		\Alex Clark\Calendar		lis 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	3	ou 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 🕨 🕨	U									
		Page 1 of 10 🕨 🕨	0			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.



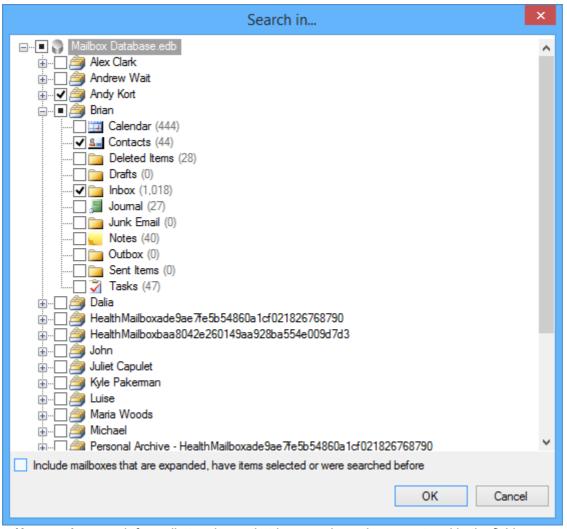
By clicking on this menu advanced mode of search dialog will be opened and **Search in** field will be filled with the selected mailbox/folder.

Fill in necessary search parameters and start the search.

Х

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).



- 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:

Х

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.

File Options Help Image: Search: General in user-defined locations: from:(Andrew) has:attachment wait P Image: Search: General in user-defined locations: from:(Andrew) has:attachment wait P Image: Search: General in user-defined locations: from:(Andrew) has:attachment wait P Image: Search: General in user-defined locations: from:(Andrew) has:attachment wait P Image: Search: General in user-defined locations: from:(Andrew Wait; Andy Kott; Brian Image: Search in user-defined locations: from:(Andrew Wait; Andy Kott; Brian) Image: Search in user-defined location General in user-defined locations: from:(Andrew Wait; Andy Kott; Brian) Image: Search in user-defined locations: from:(Andrew Wait; Andy Kott; Brian) Image: Search in user-defined location General in user-defined location General in user-defined location General in user-defined location General in user-defined location Image: Search in user-defined location General in user-defined location General in user-defined location General in user-defined location General in user-defined location Image: Search in user-defined location General in user-defined location General in user-defined location General in user-defined location Gene	X	Axcient DirectRestore	- D 💌
Wex Clark Unbox 9 Tr From: Andrew Watex Clark Unbox 9 St To: Image: Clark Unbox St Watex Clark Unbox 9 St To: Image: Clark Unbox St To: Image: Clark Unbox St St Image: Clark Unbox Image	File Options Help	Search in use Search in use Search in use Search in. Search	rdefined locations: from:(Andrew) has:attachment wait Alex Clark; Andrew Wait; Andy Kott; Brian Image: Alex Clark; Andrew Wait; Andy Kott; Romeo Montague; Mic Andrew Wait; Robert Rise; John; Susane Tyle; Mothenus-her brother, Andrew Wait; Andrew Tais; Robert Rise; John; Kyle Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle; Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle; Pakeman; John; Susane Tyle; Andrew Wait; Robert Rise; John; Kyle; Pakeman; John; Susane; Tyle; Andrew Wait; Robert Rise; John; Kyle; Pakeman; John; Su

'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.

X	Axcient DirectRestor	bre	_ 🗆 🗙
File Options Help Browse Malbox Database edb Mail Browse Andrew Wait C:\ Andrew Wait C:\ Andrew Wait Andrew Wait Siz Dala Dala Dala Dala	Se lailbox Database.edb :\Exchange Server Database\Mailbox ize: 904 Mb ate: 3/13/2014 ersion: Exchange Server 2013 ransaction logs not used	Select mailboxes or folders to search: Search in Select mailboxes or folders to search Include mailboxes or folders to search Include mailboxes that are expanded before Find whole words only Has words: Doesn't have: Has attachments From: To: Subject:	<u>م</u>
	le info		
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.

Х

ile Options Help								
2					Search in user-defined locations: wait			
Browse Search: «wait» (4,310) ×			1			1		
		Туре	Location	Q	Subject	From	То	
Alex Clark (977)		\geq	\Alex Clark\Inbox			John	Richard; Andrew Wai	t; R
		\geq	\Alex Clark\Inbox	Q	Do not write to me, but know that if Ico	Susane Tyler	Rudy Raid; Juliet Cap	ule
Deleted Items (16)		\geq	\Alex Clark\Inbox	Q	It is to these sea-lochs that the herrings	Maria Woods	Dalia; Rudy Raid; Tin	G
		\geq	\Alex Clark\Inbox	_	The crowds liked best to go toCompto	John	Andrew Wait; Andy K	ort;
		\sim	\Alex Clark\Inbox		Presently hebent over and put his big h	Andrew Wait	Richard; Brian; Rome	o N
Andrew Wait (1,460)		\geq	\Alex Clark\Inbox		It sometimes happens, indeed, that the	Andrew Wait	Dalia; Alex Clark; Sus	ane
		\geq	\Alex Clark\Inbox		"Energy and ill temper," some say, "are	Michael	Juliet Capulet; Susan	e Tj
Deleted Items (26)		\sim	\Alex Clark\Inbox	ß	WESTMORELAND. WESTMORELAN	Andrew Wait	Kyle Pakeman; Andy	Ko
		\geq	\Alex Clark\Inbox	_	It was easy to him. It was	Susane Tyler	Andrew Wait; Robert	Ris
Journal (1)		\sim	\Alex Clark\Inbox	ß	From the 25th of Edward III. From the	Andrew Wait	Susane Tyler; Michae	I; K
Notes (2)		\geq	\Alex Clark\Inbox	_	Labour is there so well rewarded, thata	John	Robert Rise; Michael	Ar
🗍 🏹 Tasks (2)		\sim	\Alex Clark\Inbox		Would you'd pardon me. Would you'd	Brian	Romeo Montague; Ky	le l
🖕 🖳 🎒 Andy Kort (943)		\sim	\Alex Clark\Inbox	ß	DUKE. DUKE. DUKE. DUKE. DUK	Andrew Wait	Rudy Raid; Brian; Ale	хC
Calendar (276)		\sim	\Alex Clark\Inbox	ğ	MRS. MRS. MRS.	Alex Clark	Andrew Wait; Andy K	ort;
Deleted Items (16)			\Alex Clark\Inbox	-	The face is	Rudy Raid	Michael; Juliet Capule	t; ł
inbox (646)			\Alex Clark\Inbox		But the thing	Andrew Wait	Susane Tyler; Alex Cl	ark
Journal (2)		14	\Alex Clark\Inbox		When the	Brian	Andrew Wait	
			\Alex Clark\Inbox		l have	Andrew Wait	Andy Kort; Maria Woo	ds
		-	\Alex Clark\Inbox			Maria Woods	John; Alex Clark; Sus	ane
4 Contacts (3)		- 4	\Alex Clark\Inbox		He had taken	Andrew Wait	John; Andrew Wait; M	lich
Deleted Items (14)			\Alex Clark\Deleted Items		THERSITES.	Alex Clark	Andy Kort; Juliet Capi	let
			\Alex Clark\Inbox		LADY FAULCONBRIDGE.	John	Alex Clark; Maria Wo	ods
Tasks (1)			\Alex Clark\Inbox			Dalia	Brian; Robert Rise; M	ichi
		- 14	\Alex Clark\Inbox		After	Andrew Wait	Juliet Capulet; Luise;	Joh
	<							5

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

		Axcient Direc	tRest	ore		
Options Help Provise Search: «from:(Andrew Wait) waits (109) X Search: «from:(Andrew Wait) waits (109) Deleted tems (26) Deleted tems (26) Image: Provise in the state of the	To:	e Location Vandrew Wait \nbox Vandrew Wait \nbox	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Search in user-defined locations: from:(And Subject Will it not be received, When we hav Exeunt FAIRIES Exeunt FAIRIES Concerning the bounds of unity; the tru A particular country, in the same They were getting kind of interested. T In this action it isgenius; not the privileg SHALLOW. SHALLOW. SHALLO Thesubscribers to a new loan, who me Let it be virtuous to be obstinate. Let it Hisgaments hung in tatters; his boots	From Andrew Wait Andrew Wait	To Juliet Capulet; Andrew Wat; Maria Woods; Juliet Capulet; Aex Clark; Andrew Wat; Lui Andy Kort; Romeo Montague Robert Rise; Andrew Wat; Lui Andy Kort; Romeo Montague Robert Rise; Andrew Wat; Lui John; Kiyle Pakerman; Rome- Alex Clark; Juliet Capulet; Lui Robert Rise; Maria Woods; L John; Michael; Luites; Susan Alex Clark; Andrew Wat; Lui Robert Rise; Maria Woods; L John; Michael; Luites; Susan Alex Clark; Andrew Wat; Lui Bobert Rise; Maria Woods; L John; Michael; Luites; Susan Alex Clark; Andrew Wat; Lui Bobert Rise; Maria Woods; L John; Michael; Luites; Susan Alex Clark; Andrew Wat; Lui Bobert Rise; Maria Woods; L John; Michael; Luites; Susan Alex Clark; Andrew Wat; Lui Bobert; Say
	Britain upo	axes upon the necessaries of life, on soap, salt, leather, candles, etc hour, and consequently that of all. v Properties	neces	sarily raise the		ESSAYS-10.txt, 1.20 KB ESSAYS-11.txt, 1.61 KB
	14 4	Page 1 of 2 🕨 🔰 🙂				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**.

Х

				Axcient Dire	ectRe	store		
ile	Options Help		_					
	Open file	Ctrl+O						
	Recent	•				Search in user-defined locations: wait		
	Close file							
	Reload database using transaction logs		Туре	Location	A	Subject	From	То
	Search for files to open			\Alex Clark\Inbox	0	Brice to leave, and twenty times, by th	Maria Woods	Andrew Wait: Andv Kort:
	Export selected items into PST	Ctrl+S		\Alex Clark\Inbox		And for a woman wert thou first create	Dalia	Luise: Rudy Raid: John:
		Ctrl+G		\Alex Clark\Inbox	A	And as with religion amongst us at that	Andrew Wait	Andy Kort; Maria Woods;
	Export into original Exchange mailbox			\Alex Clark\Inbox	Ă	Open wagons and conestogas and car		John: Dalia: Luise: Susar
	Cancel current operation	Ctrl+N		\Alex Clark\Inbox	Ū	When the war came, their system conti		Brian; Alex Clark; Andy K
	Open log folder			\Alex Clark\Inbox		But since she pricked thee out for wom	Rudy Raid	Michael; Robert Rise; Ri
				\Alex Clark\Inbox	0	It is a distinction of species. It is a	Andy Kort	Michael; Robert Rise; Ri
	Delete saved temp files and logs			\Alex Clark\Inbox	ā	It called from the far norththe northof	Tim Goodler	Luise
	Exit	Alt+X		\Alex Clark\Inbox	_	It was, besides, a foreign manufacture,	Andrew Wait	Romeo Montague; Dalia;
-				\Alex Clark\Inbox	0	Then, again, a poet or poem may coun	Rudy Raid	Andrew Wait; Maria Woo
	🗌 🚤 Notes (2)		\sim	\Alex Clark\Inbox	0	I can give youenough for any woman's	Maria Woods	Tim Goodler; Maria Woo
	🏹 Tasks (2)		\sim	\Alex Clark\Inbox	0	Past cure I am, now reason is past car	Dalia	Brian; Tim Goodler; Alex
E	🧿 Andy Kort (943)		\sim	\Alex Clark\Inbox		That members of the laboring class, at	Andrew Wait	Andrew Wait; Tim Goodle
	Calendar (276)		\sim	\Alex Clark\Inbox		The Notary was sound asleep in his ar	Kyle Pakeman	Brian; Rudy Raid; Dalia
	Deleted Items (16)		\geq	\Alex Clark\Inbox			John	Richard; Andrew Wait; R
			\geq	\Alex Clark\Inbox	Q	Do not write to me, but know that if Ico		Rudy Raid; Juliet Capule
	Notes (3)		\geq	\Alex Clark\Inbox	Q	It is to these sea-lochs that the herrings		Dalia; Rudy Raid; Tim Go
_	Brian (930)		\geq	\Alex Clark\Inbox		The crowds liked best to go toCompto	John	Andrew Wait; Andy Kort;
	Calendar (272)		\sim	\Alex Clark\Inbox		Presently hebent over and put his big h		Richard; Brian; Romeo M
	Contacts (3)		\sim	\Alex Clark\Inbox		It sometimes happens, indeed, that the		Dalia; Alex Clark; Susane
	Deleted Items (14)		\geq	\Alex Clark\Inbox		"Energy and ill temper," some say, "are		Juliet Capulet; Susane Ty
	📄 📄 Inbox (640)		\geq	\Alex Clark\Inbox	Ű	WESTMORELAND. WESTMORELAN		Kyle Pakerman; Andy Ko
	Tasks (1)		\geq	\Alex Clark\Inbox		It was easy to him. It was	Susane Tyler	Andrew Wait; Robert Ris
				\Alex Clark\Inbox	Ú	From the 25th of Edward III. From the	Andrew Wait	Susane Tyler; Michael; K
		<						>
				Page 1 of 4*				100 messages per pa

Note

X

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"
Maibox Database edb Aex Clark Andrew Wait Andrew Wait Andrew Wait Andrew Wait Andrew Wait Dala Dala Dala Dala John Juliet Capulet Maria Woods Maria Woods Personal Archive - Health Mailboxade 9ae 7re5b Personal Archive - Health Mailboxade 94e 7re5b Roter Rise Robert Rise Robert Rise Robert Rise System Mailbox(ade 9ae 7re5b5-4860-a 1cf-0218 Fird archive - Feab5-4860-a 1cf-0218 Tim Goodler	
Completed	

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.



Operator	Definition	Example
size:	Search for messages larger than the specified size in bytes. Abbreviations for numbers (B, K, M) are allowed. Size limit is 2000MB.	Example: size:300 Meaning: messages larger than 300 bytes 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.	Example: larger:1M Meaning: All messages of at least 1MB in size. Example: larger:150K smaller:1M Meaning: messages larger than 150KB but smaller than 1MB.
+ (plus sign)	Match the search term exactly.	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.

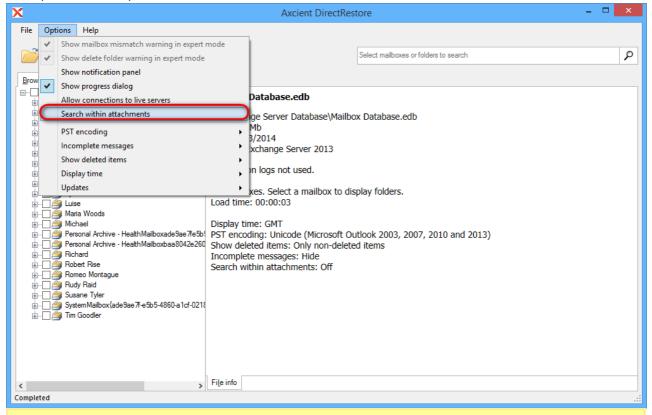
Note

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



Х

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

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								
<u> ⇒</u> ∎ 🖾					Search in Alex Clark	(
rowse								
Mailbox Database.edb ,	^	Туре	0	Subject	From	То	Created	
🗄 🗌 🧀 Alex Clark			-	She was glad that Jo shoul	Luise	Maria Woods; Kyle Pakerman; Luise;	Wednesday,	March 12
Calendar (438)			A	-		Andrew Wait: Richard: John: Dalia: Ro		
	Π.		0	It is my lady mother. It is my		Romeo Montague; Richard; Dalia; Mic		
····· Deleted Items (25)	ī ī			Butthat it might not appear t		Romeo Montague; Andy Kort; Robert		
inbox (1.046)		\sim	A	Do you persuade yourself t		Susane Tyler: Andy Kort: Juliet Capulet		March 12
		\geq	Ŭ	I regret that I am unable to r		John; Brian; Tim Goodler; Kyle Pakerm	Wednesday,	March 12
		\geq	A	Alas, the heavy basketwhic	Alex Clark	Dalia: Kyle Pakeman: Michael: Susan	Wednesday.	March 12
Notes (40)		\geq	ă	He went up a dark and narr		Brian; Michael; Richard; Dalia; Luise; T	Wednesday,	March 12
Outbox (0)		\geq	Ŭ	Noone, even there, could li	Romeo Montague	Brian; Alex Clark; Richard; Romeo Mon	Wednesday,	March 12
Sent Items (0)		\sim	A	One of the things particular	Robert Rise	John; Maria Woods; Richard; Alex Clar	Wednesday,	March 12
🟹 Tasks (48)		\sim	Ă	Stephen Brice read the ne	Luise	Alex Clark; John; Tim Goodler; Michael	Wednesday,	March 12
🗄 🗋 ُ Andrew Wait		\sim	ā	Give me some light! Give m	Michael	Romeo Montague; Richard; Andrew W	Wednesday,	March 12
🗄 🗋 🎒 Andy Kort		\geq	Ō	His condition leaves him no	Juliet Capulet	Romeo Montague; Richard; Juliet Cap	Wednesday,	March 12
🚋 💭 🎒 Brian		\sim		What a pied ninny's this!	Maria Woods	Maria Woods; Brian; Juliet Capulet; Ro	Wednesday,	March 12
🗄 🥭 Dalia		\simeq	Q	Your vows, your memories,	John	Robert Rise; Maria Woods; Andrew W	Wednesday,	March 12
Health Mailboxade9ae7fe5b54860a1cf0218		\geq	Ō	The riders could be heard, I	Andrew Wait	Susane Tyler; Maria Woods; Romeo M	Wednesday,	March 12
ia j is Health Mailboxbaa8042e260149aa928ba55		\geq	Ū	The sinewand heart of man	Susane Tyler	Brian; Juliet Capulet; Andy Kort; Robert	Wednesday,	March 12
i		\sim		Now, herald, are the dead	Alex Clark	Michael; Alex Clark; Susane Tyler; Ro	Wednesday,	March 12
		\sim		Dieu vous garde, monsieur	Michael	Maria Woods; Robert Rise	Wednesday,	March 12
		\simeq		If you had seen the look in	Romeo Montague	Dalia; Juliet Capulet; Alex Clark; Rome	Wednesday,	March 12
Amia Woods		\simeq		She wore a gray blouse wit	Robert Rise	Alex Clark; Susane Tyler; Maria Woods	Wednesday,	March 12
. Michael		\geq		But though the public scho	Luise	John; Brian; Michael; Andy Kort; Maria	Wednesday,	March 12
		\ge		if itwas in gold; but at the sa	Andrew Wait	Rudy Raid; Juliet Capulet; Brian; Andy	Wednesday,	March 12
🗄 🖳 🎒 Personal Archive - Health Mailboxbaa 8042e		\geq		My stars shine darkly over	Rudy Raid	Juliet Capulet; Tim Goodler; Alex Clark;	Wednesday,	March 12
🗄 ··· 🗋 🎒 Richard		\bowtie	0	Charley was of these peopl	Romeo Montague	Susane Tyler; Alex Clark; Michael; Rud	Wednesday,	March 12
🗄 🗋 🚔 Robert Rise	Image: Contract of the second seco	\bowtie			Richard	Richard; John; Andy Kort; Robert Rise;	Wednesday,	March 12
>	<							

Clicking the injection button will bring up the following dialog:

Х

× Export into original mailbox	×
Host (ex.: contoso.com or 192.168.0.5): ES2013.no-such-email.com Refresh Advanced Details: Export from source mailbox 'Alex Clark' to destination mailbox <u>Alex Clark @no-such-email.com</u>: 4 items. 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	×
	Host (ex.: contoso.com or 192.168.0.5): ✓ Use current Windows credentials User logon name (ex.: user1): Password: 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: ••••••••• • Save 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.

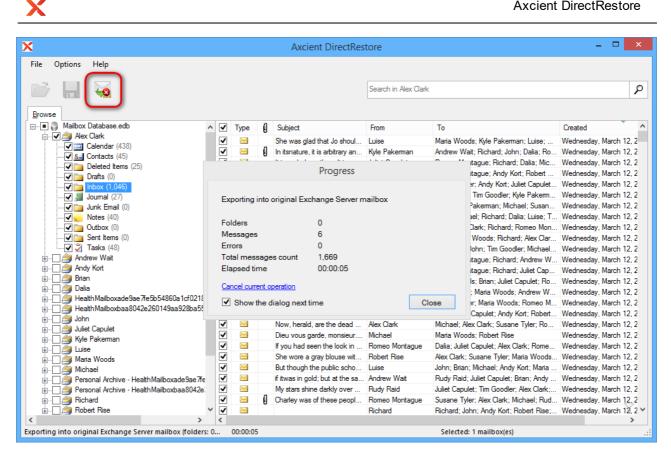
X	Connec	t to E	xcł	nange Server n	nailbox	×		
	Host (ex.: contoso.com or 192.16 ES2013.no-such-email.com	8.0.5):						
	Use current Windows credent User logon name (ex.: user1): Brian	ials]	Exchange in a mailbox of credentials. permissions Exchange S				
	Password:							
					Connect	Cancel		
Expon	ting to live Exchange is also	availai	bie	Axcient DirectRes			-	- 🗆 🗙
	Options Help							
	pen file Ctrl+0 ecent				Search in Alex Clark	c		P
c	lose file							
	eload database using transaction logs	Туре	A	Subject	From	То	Created	
S	earch for files to open			She was glad that Jo shoul	Luise	Maria Woods; Kyle Pakerman; Luise;	Wednesday	, March 12, 2
	xport selected items into PST Ctrl+S		Ø	In itsnature, it is arbitrary an		Andrew Wait; Richard; John; Dalia; Ro Romeo Montague; Richard; Dalia; Mic		
	xport into original Exchange mailbox Ctrl+G			It is my lady mother. It is my Butthat it might not appear t		Romeo Montague; Andy Kort; Robert		
C	ancel current operation Ctrl+N		0	Do you persuade yourself t		Susane Tyler; Andy Kort; Juliet Capulet		
0)pen log folder		a	I regret that I am unable to r Alas, the heavy basketwhic		John; Brian; Tim Goodler; Kyle Pakerm Dalia; Kyle Pakerman; Michael; Susan	-	
D	elete saved temp files and logs		Ũ	He went up a dark and nar		Brian; Michael; Richard; Dalia; Luise; T		
E	xit Alt+X		n	Noone, even there, could li		Brian; Alex Clark; Richard; Romeo Mon		
	Tasks (48)		0	One of the things particular Stephen Brice read the ne		John; Maria Woods; Richard; Alex Clar Alex Clark; John; Tim Goodler; Michael		
T 1	🗌 🎒 Andrew Wait		Ő	Give me some light! Give m		Romeo Montague; Richard; Andrew W		
	☐ 🎒 Andy Kort ☐ 🎒 Brian		Ø	His condition leaves him no		Romeo Montague; Richard; Juliet Cap		
÷	🗌 🎒 Dalia	✓✓✓✓	A	What a pied ninny's this! Your vows, your memories,		Maria Woods; Brian; Juliet Capulet; Ro Robert Rise; Maria Woods; Andrew W		
	☐	✓ 🖂	ğ	The riders could be heard, I	Andrew Wait	Susane Tyler; Maria Woods; Romeo M	Wednesday	, March 12, 2
÷	🗌 🎒 John	✓✓✓✓	U	The sinewand heart of man Now, herald, are the dead		Brian; Juliet Capulet; Andy Kort; Robert Michael; Alex Clark; Susane Tyler; Ro		
	☐ / juliet Capulet ☐ / Kyle Pakerman			Dieu vous garde, monsieur		Maria Woods; Robert Rise	-	March 12, 2
		✓ 🖂		If you had seen the look in	Romeo Montague	Dalia; Juliet Capulet; Alex Clark; Rome		
÷	🔄 Luise	 Main <li< td=""><td></td><td>She wore a gray blouse wit</td><td>Robert Rise</td><td>Alex Clark; Susane Tyler; Maria Woods</td><td>Wednesday</td><td>, March 12, 2</td></li<>		She wore a gray blouse wit	Robert Rise	Alex Clark; Susane Tyler; Maria Woods	Wednesday	, March 12, 2
÷	🗌 쳘 Maria Woods			But though the public scho	Luise	John: Brian: Michael: Andy Kort: Maria	Wednesday	March 12, 2
		 <		But though the public scho if itwas in gold; but at the sa		John; Brian; Michael; Andy Kort; Maria Rudy Raid; Juliet Capulet; Brian; Andy		
	 ☐ Maria Woods ☐ Michael ☐ Personal Archive - HealthMailboxade9ae7re ☐ Personal Archive - HealthMailboxbaa8042e; 	 <	0	if itwas in gold; but at the sa My stars shine darkly over	Andrew Wait Rudy Raid	Rudy Raid; Juliet Capulet; Brian; Andy Juliet Capulet; Tim Goodler; Alex Clark;	Wednesday, Wednesday,	, March 12, 2 , March 12, 2
	∏ 🤌 Maria Woods ∏ 🍰 Michael ∏ 🍰 Personal Archive - HealthMailboxade9ae7re	✓ ⊠ ✓ ⊠	Ø	if itwas in gold; but at the sa	Andrew Wait Rudy Raid	Rudy Raid; Juliet Capulet; Brian; Andy	Wednesday, Wednesday, Wednesday,	March 12, 2 March 12, 2 March 12, 2

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.

Х

ρ

^



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
 - 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:

				Axcient DirectRes	store		
e Options Help							
3	Se	arch in Ale	n Cl	ark		P	-
						7	
rowse							Destination
🔲 🌍 Mailbox Database.edb	^	Туре	Ø	Subject	From	To ^	No live servers connected.
🖕 🗌 🎒 Alex Clark			-	She was glad that Jo shoul	Luise	Maria Woods; Kyl	NO IVE SEIVEIS CONNECTED.
Calendar (438)			A	In itsnature, it is arbitrary an		Andrew Wait: Ric	Connect to a live server to enable
			0	It is my lady mother. It is my		Romeo Montague	export of objects from source storage
Deleted Items (25)				Butthat it might not appear t		Romeo Montague	
Drafts (0)			a	Do you persuade yourself t		Susane Tyler; An	
			0	I regret that I am unable to r		John: Brian: Tim (
			a	Alas, the heavy basketwhic		Dalia; Kyle Paken	
			Ã	He went up a dark and narr		Brian: Michael: Ri	
			C	Noone, even there, could li		Brian: Alex Clark:	
			a	One of the things particular		John: Maria Woo	
Tasks (48)			n	Stephen Brice read the ne		Alex Clark: John:	
🗈 🗌 🦳 Andrew Wait			ñ	Give me some light! Give m		Romeo Montague	
🗄 🖳 🎽 Andy Kort			ñ	His condition leaves him no		Romeo Montague	
🗄 🗋 🎒 Brian			C	What a pied ninny's this!		Maria Woods: Bri	
🗄 🗋 ُ Dalia	H		A	Your vows, your memories,		Robert Rise: Mari	
🗄 🗌 ُ Health Mailboxade9ae7fe5b54860a1cf0218			ă	The riders could be heard.l		Susane Tyler: Ma	
👜 🗌 🎒 Health Mailboxbaa 8042e260149aa 928ba 55			ñ	The sinewand heart of man		Brian; Juliet Capu	
🗄 🗋 🎒 John			U	Now, herald, are the dead		Michael: Alex Clar	
🗄 🖳 🚔 Juliet Capulet				Dieu vous garde, monsieur		Maria Woods: Ro	
🗄 🗌 🥭 Kyle Pakerman				If you had seen the look in		Dalia; Juliet Capu	
∎ 🚔 Luise				She wore a gray blouse wit	-	Alex Clark: Susan	
Maria Woods	H			But though the public scho		John; Brian; Mich	
ia				if itwas in gold; but at the sa		Rudy Raid; Juliet	
Personal Archive - Health Mailboxade Sae Are Personal Archive - Health Mailboxbaa 8042e:				My stars shine darkly over		Juliet Capulet; Tin	
Personal Archive - Health Maliboxbaa 8042e.			A			Susane Tyler; Ale	
	↓ ⊢		6	chancy was or triese peopl	Richard	Richard: John: Ar ¥	
					nicitatu	Hichard; John Ar *	
pleted							

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:

x	Connect to Ex	change 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: Save password Save 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:

Х

· 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:

X	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:

Connect to Exc	change 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: Save 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 Mailbox owner SMTP address (ex.: user1@contoso.com): dalia@no-such-email.com
	Connect Cancel
onnecting and exporting to live Exchange	are also available through the File menu.
X	Axcient DirectRestore

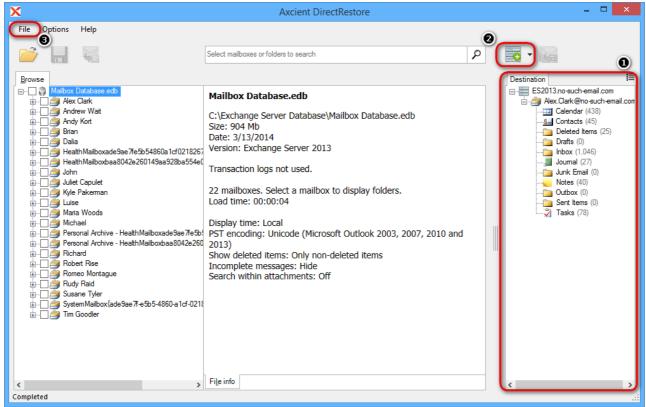
X					Axcient DirectRestore	- U ×
F	ile	Options Help				
		Open file	Ctrl+O	- 1		
		Recent			ct mailboxes or folders to search	
		Close file				Destination
		Reload database using transaction logs		t		
		New connection		•	Attach to live Exchange mailbox Ctrl+T	No live servers connected.
		Search for 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		e: 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			
		Cancel current operation	Ctrl+N	P	insaction logs not used.	
		Open log folder			mailboxes. Select a mailbox to display folders.	
		Delete saved temp files and logs		a	ad time: 00:00:04	
		Exit	Alt+X	ļ	play time: Local	
		Personal Archive - HealthMailboxade Personal Archive - HealthMailboxade Richard Borneo Montague Rudy Raid Susane Tyler Susane Tyler Tim Goodler	9ae /fe5b! 8042e260	PS 201 Sho Inc Sea	r encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and L3) w deleted items: Only non-deleted items complete messages: Hide arch within attachments: Off	
<			>	Fi <u>l</u> e	info	
Co	mpl	eted				.:

Х

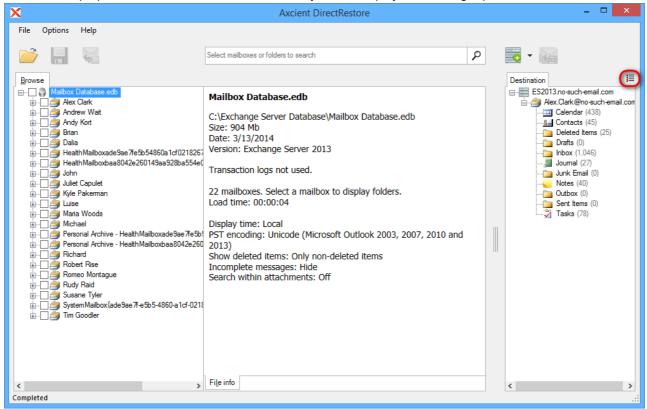
Injection workflow

Х

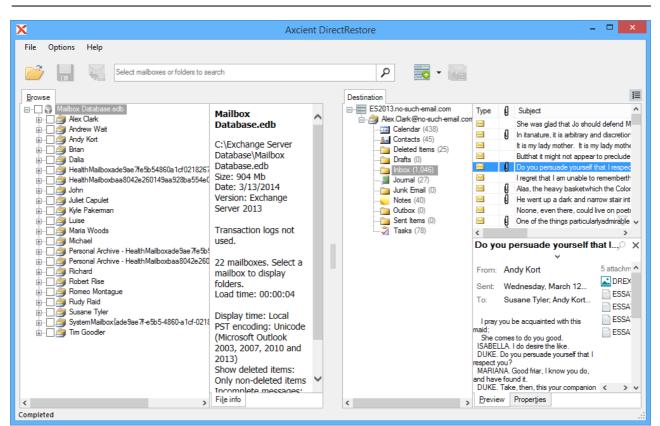
After the connection is established, the mail store tree appears on the **Destination** tab (1). It will be listed in the drop-down list of the toolbar (2) connection button and in the **File** menu (3).



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.

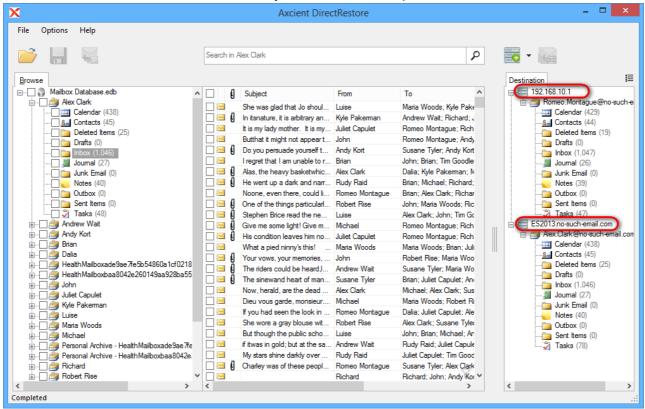


After enabling the button a list with the items is displayed as well as a preview when clicking on the item.



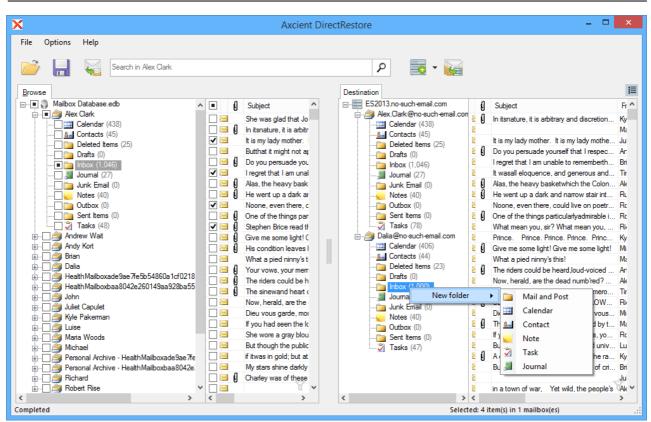
Connection to several mailboxes simultaneously on different hosts is possible.

Х



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.

Search in Alex Clark P Early Source Destination Type Subject She was glad She was glad She was glad She was glad Calendar (433) Calendar (433) Calendar (433) Calendar (433) Contract (45) Buthat timight Calendar (433) Calendar (433) Deleted tems (25) Buthat timight Calendar (433) Calendar (433) Deleted tems (25) Buthat timight Calendar (433) Q Instanture, it a tabutary and discreted to the stray and discrete to the stray and distrato the stray and discrete to the stray and				Axcient D	irect	tRestore		-	
Malbox Database edb Type Subject Acx Clark She was glad 11 She was glad 11 Acx Clark (43) She was glad 11 She was glad 11 Deleted hems (25) Buthat t might not appear to preclude Journal (27) Subject She was glad 11 Notes (40) G ho you persual Figeret that 1 a Notes (40) G ho error the moment Journal (27) Notes (40) G lo error the moment Journal (27) Andrew Wat G lo error the moment G low en some light Andrew Wat G low en some light G low en some light Andrew Wat G low ou persual com G low en some light Andrew Wat G low en some light G low en some light Join G low en some light G low en some light Join G low en some light G low en some light Join G low en some light G low en some light Join G low en some light G low en some light Join G low en some light G low en some light Join Mitchael G low en some light G low en some light Join Mitch	Search in Alex Clark						I		
Booler Rise V 20 V 2	Mailbox Database.edb Alex Clark Alex Clark Alex Clark Contacts (438) Deleted Items (25) Deleted Items (25) Deleted Items (25) Deleted Items (27) Deleted Items (0) Outbox (0) Sent Items (0) Sent Items (0) Deleted Items (27) Deleted Items (27) Deleted Items (27) Deleted Items (27) Deleted Items (0) Deleted Items (0)			She was glad t In itsnature, it i It is my lady mc Butthat it might Do you persua I regret that I a Alas, the heav He went up a i Noone, even t One of the thin Stephen Brice Give me some His condition le What a pied ni Your vows, yoi The riders cou The sinewand Now, herald, a Dieu vous gar If you had seer She wore a gr But though the fi twas in gold; My stars shine				She was glad that Jo shoul In itsnature, it is arbitrary an It is my lady mother. It is my Butthat it might not appear Do you persuade yourseff il I regret that I am unable to Alas, the heavy basketwhice He went up a dark and nar Noone, even there, could li One of the things particular Stephen Brice read the new Grive me some light! Give m His condition leaves him no What a pied ninny's this! Your vows, your memories, The riders could be heard.). The sinewand heat of mar Now, herald, are the dead Dieu vous garde, monsieur If you had seen the look in She wore a gray blouse wit But though the public scho fit twas in gold; but at the sa My stars shine darky over	d defend M d discretion lady motho to preclude hat I respec- memmberth th the Color row stair int ve on poet yadmirable vs in the bla e some ligh time to rec- and your h bud-voiced seem to be humb'red? . Dicu vous hiseyes, yo h ared scar ols and unin ame time de ne; the m
		× 🗆 🕴	<u> </u>			< >		-	7

Х



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



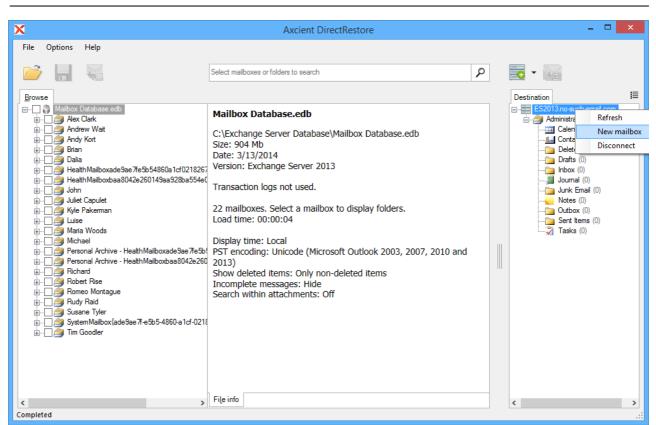


Create a new Exchange mailbox

Creating via main menu:

)	<			Axcient DirectRestore			-		×
	File	Options Help							
		Open file Ctrl	-0			5			
		Recent	•	ct mailboxes or folders to search	ρ	8			
		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 e export of objects from source		
		Export selected items into PST Ctr	+S	Recent					-
		Export into original Exchange mailbox Ctrl		rsion: Exchange Server 2013					
		Export into live server Ctr		ansaction logs not used.					
		Cancel current operation Ctrl	-N	instead in logs not ased.					
		Open log folder		mailboxes. Select a mailbox to display folders.					
		Delete saved temp files and logs		ad time: 00:00:05					
			+X	splay time: Local					
Ī				ST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and					
	6			013) how deleted items: Only non-deleted items					
			Ir	complete messages: Hide					
		a	S	earch within attachments: Off					
	E	📖 📄 Susane Tyler	0010						
			0218						
	_								
	<		> Fi	<u>l</u> e info					
C	.ompi	eted							:
									.:
Cı	reat	^{eted} ting using toolbar button:		Axcient DirectRestore			- 🗆 🗙		.::
	reat k	ting using toolbar button:		Axcient DirectRestore			- □ <mark>×</mark>	1	.::
Cı	reat			Axcient DirectRestore			- 0 ×		.::
Cı	reat k	ting using toolbar button:	Select r	Axcient DirectRestore			- • ×		:
Cı	File	Options Help	Select r			Attac		G	.::
Cı	File	Options Help	Select r				ch to live Exchange mailbox.		::: rl+T 1+W
Cı	File	options Help				Creat	ch to live Exchange mailbox. te a new Exchange mailbox.		.:: trl+T t+W
Cı	File	Coptions Help	Mailt	nalboxes or folders to search \mathcal{P}		Creat Rece	ch to live Exchange mailbox. te a new Exchange mailbox.		
Cı	File Brow	Voptions Help	Mailt C:\E) Size:	naliboxes or folders to search		Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File	ting using toolbar button: Options Help Maibox Database edb Aex Clark Ardrew Wait Andrew Wait Andy Kort Brian Delia HealthMailboxade9ae 7/e5b54860a1cf021826	Mailt C:\E) Size: Date	nailboxes or folders to search		Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File	ting using toolbar button: Options Help /se /se Maibox Database edb Acx Clark Ardrew Wat Ardrew Wat Dala Health Maiboxade3ae 7/e5b54860a1cf021826 Health Maiboxade3ae 7/e5b54860a1cf021826 Health Maiboxade3ae 7/e5b54860a1cf021826	Mailt C:\E) Size: Date	naliboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File	Options Help Options Help Image: See Sector Sect	Mailt C:\E) Size: Date Versid	nailboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cr	File	ting using toolbar button: Options Help ////////////////////////////////////	Mailt C:\E) Size: Date Versid Trans	nailboxes or folders to search $\particlesize{2}$	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cr	File	ting using toolbar button: Options Help	Mailt C:\E) Size: Date Versid Trans 22 m	nailboxes or folders to search Poor Database.edb xchange Server Database\Mailbox Database.edb 904 Mb : 2014-03-13 on: Exchange Server 2013 saction logs not used.	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cr	File	ting using toolbar button: Options Help ////////////////////////////////////	Mailt C:\E) Size: Date Versid Trans 22 m Load	nailboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cr	File	ting using toolbar button: Options Help Se Maibox Database edb Aex Clark Andrew Wat Andrew Wat Dalia HealthMailboxade9ae 7re5b54860a1cf021826 HealthMailboxade9ae 7re5b HealthMai	Mailt C:\E) Size: Date Versio Trans 22 m Load Displa PST (nailboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cr	File	ting using toolbar button: Options Help	Mailt C:\E) Size: Date: Versid Trans 22 m Load Displa PST (2013	nailboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File Brow	ting using toolbar button:	Mailt C:\E) Size: Date Versik Trans 22 m Load Displa PST (2013 Show Incor	nailboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File File	ting using toolbar button: Options Help	Mailt C:\E) Size: Date Versk Trans 22 m Load Displa PST (2013 Show Incor	nalboxes or folders to search Pox Database.edb Acchange Server Database\Mailbox Database.edb 904 Mb 2014 03-13 2014-03-13 2012 0-3-13 2015 2014 2014 03-13 2015 2014 2014 03-13 2015 2014 2014 03-13 2015 2014 2014 03-13 2015 2014 2014 03-13 2014 03-13 2015 2014 2014 03-13 2015 2014 2014 03-13 201	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File Brow	ting using toolbar button:	Maill C:\EJ Size: Date Versid Trans 22 m Load Displa PST (2013 Show Incor Searc	nailboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File Brow	ting using toolbar button:	Maill C:\EJ Size: Date Versid Trans 22 m Load Displa PST (2013 Show Incor Searc	nailboxes or folders to search	exp	Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File Brow	ting using toolbar button:	Maill C:\EJ Size: Date Versid Trans 22 m Load Displa PST (2013 Show Incor Searc	nailboxes or folders to search		Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cı	File Brow	ting using toolbar button:	Maill C:\EJ Size: Date Versid Trans 22 m Load Displa PST (2013 Show Incor Searc	nailboxes or folders to search		Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
Cr	File Brow	ting using toolbar button:	Maill C:\EJ Size: Date Versid Trans 22 m Load Displa PST (2013 Show Incor Searc	nailboxes or folders to search		Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		
	File Brow	ting using toolbar button:	Maill C:\EJ Size: Date Versid Trans 22 m Load Displa PST (2013 Show Incor Searc	nailboxes or folders to search Pox Database.edb Acchange Server Database\Mailbox Database.edb 904 Mb 2014-03-13 on: Exchange Server 2013 saction logs not used. aliboxes. Select a mailbox to display folders. time: 00:00:04 ay time: Local encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and) of deleted items: Only non-deleted items polete messages: Hide th within attachments: Off		Creat Rece	Ch to live Exchange mailbox. te a new Exchange mailbox. nt		

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 X
Server Information Enter the server host and account information.
Host (ex.: contoso.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.

Х

K	New	mailbo	х	×
User information Enter the user name and accou	int informatior	ı.		
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)*	
jackwhite		no-suc	h-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	×
Mailbox set Enter the alias	ttings for the mailbox user, and then select the mailbox location.	
Alias (e.g.: jsmit	ith):*	
JackWhite		
Specify the	e mailbox database (e.g.: main_db):*	
	✓ 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 ×	1
Mailbox settings Enter the alias for the mailbox user, ar	d then select the mailbox location.	
Alias (e.g.: jsmith):*		
JackWhite		
 Specify the mailbox database (e.g 	: main_db):*	
	✓ Refresh	
	< Back Create Cancel	
Newly created mailbox is connecte	d automatically if no errors were encountered du	uring creaiton.
×	Axcient DirectRestore	X
File Options Help		
	Search in all mailboxes	
Browse		Destination
·····································	Mailbox Database.edb	ES2013.no-such-email.com
ia j Andrew Wait ia j Andy Kort ia j Brian	C:\Exchange Server Database\Mailbox Database.edb	Calendar (0) Contacts (0) Deleted Items (0)
ian japanian Dalia ian japania ian japanian Health Mailboxade9ae7fe5b54860a1cf0218267	Size: 904 Mb Date: 3/13/2014	Drafts (0)
🗄 🗆 🗋 Health Mailboxbaa 8042e 260149aa 928ba 554e0	Version: Exchange Server 2013	
ia	Transaction logs not used.	
ia	22 mailboxes. Select a mailbox to display folders. Load time: 00:00:03	Sent Items (0)
🛓 🖳 🎒 Michael	Display time: Local	
Personal Archive - HealthMailboxbaa8042e260	PST encoding: Unicode (Microsoft Outlook 2003, 2007, 2010 and 2013)	
·····································	Show deleted items: Both	
Burner Workagde Burner Braid Burner Susane Tyler	Incomplete messages: Hide Search within attachments: Off	
i≟ i∰ Tim Goodler		
	File to E	_
< >> Completed	File info	< >

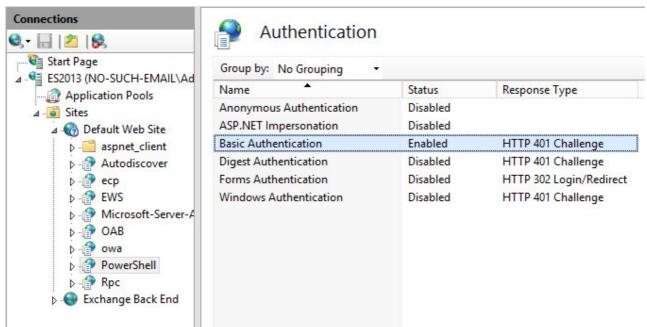
Exchange Server settings for creating a new mailbox

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.

Х



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

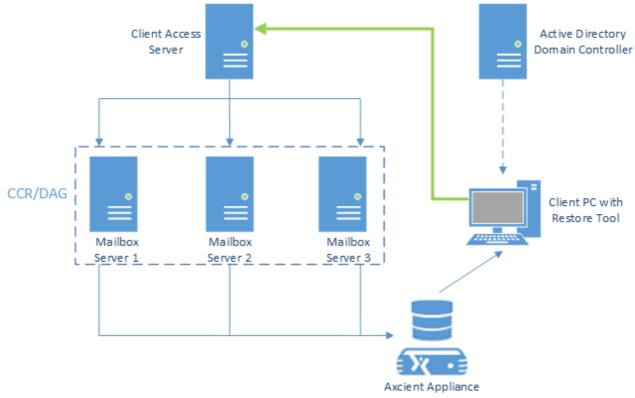
Note: replace USERNAME with actual user name, e.g. 'Administrator'

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.

1				Axcient DirectRes	tore			×
File Options Help								
					Search in Alex Clark	:		2
								-
Browse								
	^ 🗸	Туре	0	Subject	From	То	Created	Ť.,
🖶 🔲 🧀 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		
<u>8</u> Contacts (45)			0	It is my lady mother. It is my		Romeo Montague: Richard; Dalia; Mic	4.1	
Deleted Items (25)				Butthat it might not appear t		Romeo Montague; Andy Kort; Robert		
	~		a	Do you persuade yourself t		Susane Tyler: Andy Kort: Juliet Capulet		
			0	I regret that I am unable to r		John; Brian; Tim Goodler; Kyle Pakerm		
			a	Alas, the heavy basketwhic		Dalia: Kyle Pakeman: Michael: Susan		
····· Notes (40)			ă	He went up a dark and narr		Brian; Michael; Richard; Dalia; Luise; T		
			0	Noone, even there, could li		Brian: Alex Clark: Richard: Romeo Mon		
			a	One of the things particularl	-	John; Maria Woods; Richard; Alex Clar	4.1	
Tasks (48)			ă	Stephen Brice read the ne		Alex Clark; John; Tim Goodler; Michael		
🖽 🖳 🚔 Andrew Wait			ă	Give me some light! Give m		Romeo Montague: Richard: Andrew W		
🗄 🦳 🎽 Andy Kort			ă	His condition leaves him no		Romeo Montague; Richard; Juliet Cap		
🛓 🗋 🎒 Brian			0	What a pied ninny's this!		Maria Woods; Brian; Juliet Capulet: Ro		
🗄 🗌 ُ Dalia			a	Your vows, your memories,		Robert Rise: Maria Woods: Andrew W	4.1	
🗄 🗌 ُ Health Mailboxade 9ae 7fe 5b 54860a 1 cf 0 218			ă	The riders could be heard.l		Susane Tyler: Maria Woods: Romeo M		
🗄 🗆 🗋 Health Mailboxbaa 8042e 260 149aa 928ba 55			ñ	The sinewand heart of man		Brian: Juliet Capulet: Andy Kort: Robert		
🗄 💭 🎒 John			0	Now, herald, are the dead		Michael; Alex Clark; Susane Tyler; Ro		
🕀 🗌 🎒 Juliet Capulet				Dieu vous garde, monsieur		Maria Woods: Robert Rise	Wednesday, March	
🗄 🗌 🎒 Kyle Pakeman				If you had seen the look in		Dalia: Juliet Capulet: Alex Clark: Rome		
	~			She wore a gray blouse wit		Alex Clark: Susane Tyler: Maria Woods		
🗟 ··· 🗌 🎒 Maria Woods				But though the public scho		John; Brian; Michael; Andy Kort; Maria	4.1	
ia				if itwas in gold; but at the sa		Rudy Raid; Juliet Capulet; Brian; Andy		
Personal Archive - Health Mailboxade ae //e	~			My stars shine darkly over		Juliet Capulet: Tim Goodler: Alex Clark:		
Fersonal Archive - Realt/Mailboxbaao042e. Archive - Realt/Mailboxbaao042e.	~		A			Susane Tyler; Alex Clark; Michael; Rud		
			e	chancy was or these peopl	Richard	Richard; John; Andy Kort; Robert Rise;		-57
The second secon	· •				i noridi u	nichard, John, Andy Nort, hobelt hise,	woundsuby, watch	>
mpleted	-					Selected: 1 folder(s) in 1 mailbo	ov(ec)	

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 destir folder or create a new one and click OK. The export process will start immedia	
A Becovered	^
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 2013)	~
Make New Folder OK Car	icel .:

Х

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 DirectRes	tore	- 🗆 🗙
File Options Help		Search in all mailboxes	٩
Andrew Wat Aadrew Wat Andrew Mathemation Andrew Mathemation Andrew Montague Andrew Mathemation Andrew Math Andrew Mathemation Andrew Mathematin Andrew Mathema	Mailboxes 9 Folders 100 Messages 7,746 Total messages count 28,163 Read speed 2,164 KB/s Elapsed time 00:01:05 Cancel current operation 2 Show the dialog next time	0	d 2013)
Exporting into PST 27%	00:01:05	Selected:	22 mailbox(es) .::

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:

Х

Recovery 001 - John Doe.pst

Recovery 001 - John Doe - 001.pst

Recovery 001 - John Doe - 002.pst

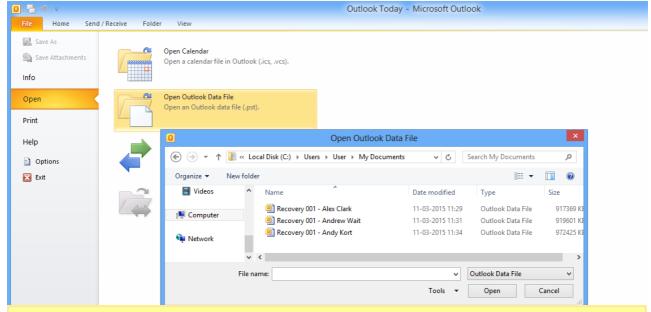
Recovery 001 - Mary Smith.pst

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.



Note

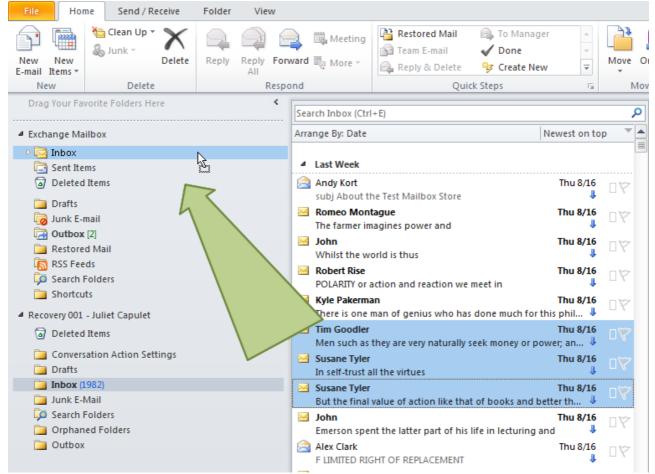
It is not recommended to move .pst files that are open in Outlook. Before moving, right- click the name of the Outlook Data File (.pst) and click Close .



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.
- 4. 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 Open database dialog	esr.exe /initdir="c:\EDB Mailboxes\"
-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.