

Metalogix[®] Archive Manager for Files 8.6

Auditing Guide



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Legend

CAUTION: A caution icon indicates potential damage to hardware or loss of data if instructions are not followed.

IMPORTANT, NOTE, TIP, MOBILE OR VIDEO: An information icon indicates supporting information.

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Introduction

1

Auditing is a component of Archive Manager for Files. It allows the administrator to log all actions in the Archive Manager Administration Center and ArchiveWeb.

Installation

Requirements

NOTE: If *Express installation* was used to install Archive Manager for Files, the auditing database must be configured with the Configuration tool. If *Advanced installation* was used to install Archive Manager for Files, the database configuration is done automatically.

Supported databases:

- SQL Server 2012 or higher
- Azure SQL Database
- Oracle 12c or higher

The database will be configured after the installation using the Configuration tool (as described later).

Installation

Auditing can be installed on the Archive Manager server or on a separate machine. The instruction presented here assumes that the Auditing feature will be installed on the same server where the Metalogix Archive Manager server is installed.

- 1. Login to the Archive Manager for Files server with the credentials of the superuser.
- 2. Run the Archive Manager setup. the default path is C:\Metalogix\Archive Manager Installation Package\Files\Archive Manager for Files Setup.exe
- 3. Allow the system checks to complete.
- 4. From the *Welcome* window select **Modify**.

Archive Manag	er For Files X
Welcome Modify, repa	air, or remove the program.
you modify	the Archive Manager for Files Setup Maintenance program. This program lets the current installation. Click one of the options below.
© <u>Modify</u> ∎	Select new program features to add or select currently installed features to remove.
⊙ R <u>e</u> pair	Reinstall all program features installed by the previous setup.
O <u>R</u> emove	Remove all installed features.
uistalionielo ——	< <u>B</u> ack <u>N</u> ext > Cancel

5. Click **Next**. The *Select Features* window opens. Select the **Auditing** check box.

Archive Manager For Files	×
Select Features Select the features setup will install.	
Select the features you want to install, and deselect th	e features you want to uninstall. Description Auditing service of the Archive Manager allows to log all actions made in the Archive Manager console and Archive Web. Administrator has an overview of user actions as archiving, retrieving, restoring and even started full-text searches.
0.00 MB of space required on the C drive 91047.35 MB of space available on the C drive InstallShield	ick <u>N</u> ext > Cancel

6. Click Next. The Logon Information window opens. Specify the credentials.

Archive Manager For Files		×
Logon Information Specify a user account and password.		
Specify the user account to be used by this DOMAIN\Username.	application. User accoun	ts must be in the format
<u>U</u> ser name:		
democorp\domadmin		
Password:		
Confirm password:		
•••••		
InstallShield	< <u>B</u> ack <u>N</u> e	ext > Cancel

7. Click **Next**. The *Firewall Settings* window opens. Select the check box to allow communications through server firewalls.

Archive Manager For Files	×
Firewall Settings	
Allow programs to communicate through Windows Firewall	
InstallShield	
< <u>B</u> ack	<u>N</u> ext > Cancel

8. Click **Next**. The *Ready to modify the program* window opens.

Archive Manager For Files	×
Ready to modify the program The wizard is ready to begin modify process.	
Click Modify to begin modify process	
If you want to review or change any of your wizard.	settings, dick Back. Click Cancel to exit the
InstallShield	< Back Modify Cancel

9. When the Auditing feature is installed, the *Maintenance Complete* window opens.

Archive Manager For Files	
	Maintenance Complete
	InstallShield Wizard has finished performing maintenance operations on Archive Manager for Files.
	< <u>B</u> ack Finish Cancel

10. Click Finish.

Configuration

In this chapter:

- 1. Configure Database
- 2. Configure Log targets
- 3. Activate auditing
- 4. Add audit users
- 5. Configure auditing service
- 6. <u>Start auditing service</u>

Configure Database

i NOTE: If *Express installation* was used to install Archive Manager for Files, the auditing database must be configured with the Configuration tool. If *Advanced installation* was used to install Archive Manager for Files, the database configuration is done automatically.

In this topic:

- Steps to configure the Auditing database
- Steps to install the Auditing database
- Steps to configure the connection setting

Steps to configure the Auditing database

- 1. When the installation completes, the *Configuration* wizard opens. If it does not open automatically, click **Start > Metalogix > Archive Manager Configuration**.
- 2. From the feature panel on the left, click **HSM** and select the **Database** tab.
- 3. Click Configure. The Database Connection Wizard opens.

Database configuration	×
Database Connection Wizard	?
The Database Connection Wizard will help you to set up your server. It allows you to specify the database provider and describe the database connection parameters.	
Please select the database provider you want to use:	
Microsoft SQL Server	
C Oracle	
The following page will let you specify the database connection parameters.	
< Back Next > Car	ncel

4. Select either **Microsoft SQL Server** or **Oracle** and click **Next**. If you choose **Microsost SQL Server**, the *Database Connection* window opens for the Microsoft SQL Server connection information.

Database configuration	8
Database Connection Wiza	ird 🤤
Set up your Microsoft SQL Se	erver connection.
Please enter parameters which will be	e used to create a connection to your Microsoft SQL Server.
Server name:	AMXDB
Initial catalog:	MAMAUDIT
Schema name:	dbo
Authentication:	Windows Authentication
User name:	
Password:	
	< Back Next > Cancel

For Microsoft SQL Server

- a. Server name name of the SQL server (eg. AMXDB)
- b. **Initial catalog** name of the HSM database (e.g. **MAMAUDIT** which is the default name of the HSM database)
- c. Schema name name of the SQL Schema (e.g. dbo)
- d. Authentication authentication type used for the database. Choose either Windows authentication or SQL Server authentication
- e. **User name** database login user name if *SQL Server authentication* is the selected as the authentication mode.
- f. **Password** password of the database user if *SQL Server authentication* is the selected as the authentication mode.

For Oracle

- a. **Oracle net name** net service name that describes the network address of the database server in your tnsnames.ora file.
- b. Schema name of the Oracle schema from your tnsnames.ora file.
- c. User name database login user name.
- d. Password password of the database user.
- 5. Click **Next** and then click **Yes** on the confirmation dialog that opens.
- 6. If the database connection is setup successfully, the configuration completion window opens.
- 7. Click **Finish** to close the *Database Connection* wizard.

Steps to install the Auditing database

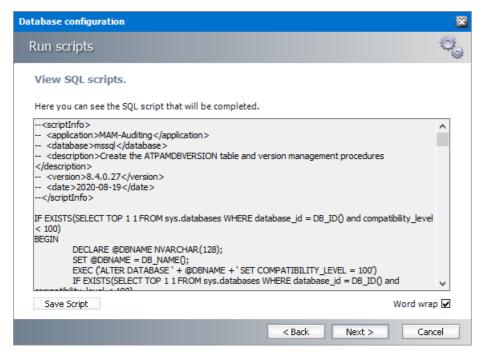
- 1. From the feature panel on the left in the *Configuration* tool, click **Auditing** and then select the **Database** tab.
- 2. Verify that the database connection information is as expected. Then click **Run Scripts**.

Database configuration	N 1997	
Run scripts	0	
Select scripts to run.		
Please select SQL scripts you want to run.		
🗹 截 01_audit_version.sql	Select All	
🔽 🧙 02_audit_categories.sql	Unselect All	
🗹 🤹 03_audit_computers.sql		
🗹 截 04_audit_methods.sql		
🗹 截 05_audit_users.sql		
🗹 截 06_audit_log.sql		
🔽 阈 07_audit_indexes.sql 🗸 🗸		
The following page will let you specify the user under which to run database scripts.		
< Back	Next > Cancel	

3. Click Select All and then click Next. The script installer wizard opens.

Database configuration		×	
Run scripts		¢	
Specify the user under which to run database scripts.			
Please specify user under which to run database scripts. The user must be allowed to create or modify tables and procedures in the database.			
Authentication:	Windows Authentication 🔹		
Database user:			
Password:			
☐ I want to see the SQL script before it is run (for advanced users)			
	< Back Next > Can	icel	

- 4. Enter the following information:
 - a. Authentication authentication type used for the database. Choose either Windows authentication or SQL Server authentication
 - a. **Database user** database login user name if *SQL Server authentication* is the selected as the authentication mode.
 - b. **Password** password of the database user if *SQL Server authentication* is the selected as the authentication mode.
 - c. I want to see the SQL script before it is run (for advanced users) select this check box to review the SQL scripts.
- 5. Click Next.
- 6. If the I want to see the SQL script before it is run (for advanced users) check box was selected in the previous step the *View SQL Scripts* window opens.



7. Click **Next** or if the **I want to see the SQL script before it is run (for advanced users)** check box was not selected, the *Run SQL Scripts* window opens.

Database configuration	×
Run scripts	0
Run SQL scripts.	
Here you can run the selected SQL scripts to set up the database.	
O1_audit_version.sql	^
02_audit_categories.sql	
O3_audit_computers.sql	
04_audit_methods.sql	
O5_audit_users.sql	
🚳 06_audit_log.sql	
07_audit_indexes.sql	
08_audit_resolvecomputer.sql	~
Click on Next to run scripts.	00:00
< Back Next > C	ancel

- 8. Click **Next**. to run the scripts.
- 9. Click **Finish** to close the script installer. The *Scripts* section of the *Configuration* tool displays the status and version of the scripts(the version of the scripts you install may differ from the version shown in the image below).

🞇 Configuration				
Configure Audit	ing		Patakasa	
archiveWeb	😼 Database conn	ection	Database	Connection Logtargets
Auditing	Provider: Server name:	Microsoft SQL Server		
可 ны	Initial catalog: Schema name:	MAMAUDIT dbo		
Files Archive	User name:	(Windows Authentication)		Configure
可 Users	Scripts			
Exchange Archive	Database version: Scripts version:	8.5.0.27 8.5.0.27		
Post Processing	🥝 Your database	is up to date.		Run scripts

Steps to configure the connection setting

1. From the feature panel on the left in the *Configuration* tool, click **Auditing** and then select the **Database** tab.

🛠 Configuration				
Configure Audit	ting	Database	Connection	Logtargets
ArchiveWeb	Connection settings	bitabase	connection	Logingets
Auditing	After changing the port number you must set Manager Auditing Service.	this value in all applica	tions using the	Archive
可 нем	Communication port: 7783			
🕡 Files Archive			Apply	Undo

Configure Log targets

In the *Log targets* tab you can configure multiple types of log targets. The default and mandatory log target is the log database. Other targets are optional, depending on administrator's needs. Multiple log targets can be defined and their usage can be conditional. Logging events of

different severity can be logged to different targets or entries containing a specific string can be omitted.

🛠 Configuration		- • ×
Configure Audi	ting Database (Connection Logtargets
TrchiveWeb	Log targets Name Type	
Auditing	Database Auditing Database	
T HEM		
🗊 Files Archive		Add Delete
可 Users	Log target configuration Threshold level: ALL	
Texchange Archive	Filters: (no filters)	Edit
Search	Intermediate directory:	Browse
🕡 Post Processing		
		Apply Undo

Steps to add a new log target

1. Click Add. The Add log target window opens.

Add log targe	et 🛛			1
Name:				
Туре:	Debug Output Debug Output Event Log File Rolling File Net Send E-Mail		•	
		OK	Cancel]

Enter the information as described below:

- a. Name name of the log target.
- b. **Type** type of the log target. Choose from one of the following options:
 - **Debug Output** writes log entries into the debug output; it can be used only for debugging purposes, since it does not keep the entries

- Event log writes log entries into the system event log; it is recommended to use this target for critical errors and events only
- File writes log entries into the specified file
- Rolling File Writes log entries into files and rolls log files based on size or date or both
- Net Send sends log entries as network messages; it can be used for notification purposes in case of critical errors
- Email sends log entries as e-mails; it can be used for notification purposes in case of critical errors
- 2. Click **OK** to add the new log target to the *Log targets* list view.

Steps to configure log targets

The target selected in the *Log targets* list can be configured in the *Log target configuration* section. You can configure it in the Log target configuration section. For each log target you can define:

- Threshold level
- Filters
- Layout (not applicable for database)

Additionally, every log target has its specific properties as described further.

Threshold Level

Threshold level specifies the threshold level for the selected log target. All logging events with lower level than the threshold level are ignored. If **Off** is selected, nothing will be logged for the selected target.

Filters

User can define a set of filters for each logging target. Filters form a chain that the logging event has to pass through. Any filter along the way can accept the event and stop processing, deny the event and stop processing, or allow the event on to the next filter. If the event gets to the end of the filter chain without being denied it is implicitly accepted and will be logged.

The available filter types are:

- StringMatchFilter matches a string (or regular expression) in the rendered message
- **PropertyMatchFilter** matches a string (or regular expression) in the value for a specific event property
- DenyAllFilter this filter drops all logging events

To define a filter for a log target:

1. Select the log target in the *Log targets* list view.

- 2. In the Filters section click Edit.
- 3. In the Edit filters dialog double-click the filter type.
- 4. In the filters options specify filter settings.
- 5. Click **Apply**.

Edit filters	8
Filters	
Туре	Description
	Matches a string in the rendered message
PropertyFilter	Matches a string in an event property
DenyAllFilter	Drops all logging events
Filter chain	
Type F	iltering rule
PropertyFilter	
	x
Filter options	
String to match	
Regular expression	
Property name	
Accept on match	
	Apply
	OK Cancel

Example:

If you want to allow through only messages that have a specific substring (e.g. 'database') then you need to specify the following filters:

- StringMatchFilter, String to match: 'database', Accept on match: true
- DenyAllFilter

If you do not want to log events having substring 'debug', you need to specify the following filter:

• StringMatchFilter, String to match: 'debug', Accept on match: false

Layout

User can define the layout of a log entry (line) for log targets, except of the Auditing Database. The layout is the sequence of property values separated by arbitrary characters. The available properties are:

• Product – product generating the logging event

- Category category of the logging event
- Level level of the logging event
- Message application supplied message associated with the logging event
- Method method name where the logging request was issued
- Data data associated with the logging event
- Computer name of the computer where the logging request was issued
- User name of the user generating the logging request
- Date date of the logging event
- Newline platform dependent line separator character or characters

Specific Log targe	et Properties
--------------------	---------------

Auditing database		
Intermediate directory	For minimizing the logging overhead, this log target operates in asynchronous mode, i.e. the entries are not written into the database directly, but they are held in an internal list and continually written into the database. In case of crash or other unpredictable situations the entries from the memory are lost, so there is an option to persist them to a file. By specifying the intermediate directory the intermediate file creation is activated. For each logging event a file is created, holding the event data. These files are deleted after the log entry was written to the database.	
Flush intermediate files	Determines whether to flush the intermediate files immediately. If this option is set to false, then the underlying stream can defer persisting the entry to a later time, so it is likely that not the whole log entry will be written to the disk when the application exits, thus becoming the entry unusable and lost.	

Event log	
Application name	Specifies the Application name. This appears in the event logs when logging.
Log name	Specifies the name of the log where log entries will be stored. This is the name of the log as it appears in the

Event log	
	Event Viewer tree. The default value is to log into the Application log, this is where most applications write their events. However if you need a separate log for your application (or applications) then you should specify the log name.
Level mapping	Specifies the mapping between a logging level (severity) and an event log entry type.

File		
Log file	Specifies the path to the file that logging will be written to.	
File creation	Indicates whether the file should be appended to or overwritten.	
Locking model	Specifies the locking model used to handle locking of the file. When minimal locking is set, the system locks the file only for the minimal amount of time when logging each message. The exclusive locking locks the file from the start of logging to the end.	
Immediate flush	Specifies whether to flush the log file immediately. Avoiding the flush operation at the end of each log writing results in a performance gain of 10 to 20 percent. However, there is safety trade-off involved in skipping flushing. Indeed, when flushing is skipped, then it is likely that the last few log events will not be recorded on disk when the application exits.	

Rolling File	
Log file	Specifies the path to the file that logging will be written to.
Backup file count	Specifies the maximum number of backup files that are kept before the oldest is erased

Rolling File	
Rolling style	Specifies the rolling style; the possible values are the following:
	Once - roll files once per program run
	• Size - roll files based only on the size of the file
	 Date - roll files based only on the date
	 Composite - roll files based on both the size and date of the file
Roll log files by size	Specifies the maximum size in bytes that the output file is allowed to reach before being rolled over to backup files.
Roll log files every	Specifies the interval when a log file is being rolled over to backup files.
File creation	Indicates whether the file should be appended to or overwritten.
Locking model	Specifies the locking model used to handle locking of the file. When minimal locking is set, the system locks the file only for the minimal amount of time when logging each message. The exclusive locking locks the file from the start of logging to the end.
Immediate flush	Specifies whether to flush the log file immediately. Avoiding the flush operation at the end of each log writing results in a performance gain of 10 to 20 percent. However, there is safety trade-off involved in skipping flushing. Indeed, when flushing is skipped, then it is likely that the last few log events will not be recorded on disk when the application exits.

Net Send	
Server	Specifies the DNS or NetBIOS name of the remote server on which the Net Send to run.
Recipient	Specifies the message alias to which the message should be sent.

Email	
То	Specifies the e-mail address of the message recipient by semicolon-separated list of e-mail addresses.
From	Specifies the e-mail address of the sender.
Subject	Specifies the subject line of the e-mail message.
Smtp host	Specifies the name of the SMTP relay mail server to use to send the e-mail messages.
Buffer size	Specifies the size of the cyclic buffer used to hold the logging events. When the specified buffer size is reached, oldest events are deleted as new events are added to the buffer. The buffer is used to keep the logging context; when a message is sent, the whole content of the buffer is included.
	If the buffer size is set to a value less than or equal to 1 then no buffering will occur and the messages are sent immediately.

Activate auditing

- 1. Open the **Settings** tab.
- 2. Check Audit log check box.
- 3. In the **Auditing Server** field enter the name of the computer where Auditing is installed.
- 4. Specify a **Port number** or leave the default.

Archive Manager	for Files _ 🗆 X
Home AMXSE	NVER
*	Retention categories
Archive	🖏 Default
Scheduler	
Restrictions	
22	Set default Change Delete
Settings	Backup time
M	Backup process starts daily at 9:02:09 AM 🕂 and ends at 9:02:09 AM 🕂
Statistics	
	Type of shortcuts to be created Standard Shortcut
	Default action taken when HTML shortcut opened None
	✓ Audit log
	Auditing server AMXSERVER Port number 7783
	Other options
	Track changes in file permissions Activate compliance permissions
	License information Apply Undo
	💐 General 🎅 Notification 🛭 📦 File compression 🛛 🅵 User management 🛛 👩 Storage

Add audit users

As the default, only the super-user has auditing rights, i.e. only the super-user can browse the auditing logs in ArchiveWeb. If you want other users to have access to auditing logs in ArchiveWeb, specific auditing roles must be granted.

- 1. Log on to ArchiveWeb with the super-user credentials.
- 2. Click the logged on user name in the right upper corner. From the dropdown menu select **Manage** settings. Then click **Roles** on the grey sub-bar.

🔶 ⋺ 🚥 http	// aw7 /ArchiveWe	b7/Manage/	Manage/Roles	P ≠ C ••• Roles	- Archive Manager	Ar ×			(<u>−</u> − × (h ★ 3
Metalogix	Archive M	anager	search		archive	search	report	tasks	Administrator 🗸
Global	SIONS PROFILE	TAGS	MANAGEMENT						Manage settings
AW7									

 In the left pane select the server for which the roles should apply. Or select Global option. ArchiveWeb roles appear in the main pane. List of roles is split into sections – Exchange Archive features are listed under Exchange roles, search features under Search roles etc. The Auditing roles are listed at the end. 4. Select the **Show auditing** logs role. All users with this role are displayed under the list. In case the desired user is not visible, click the **Add users and groups** icon () to add it to the list. Then click **Allow** check mark.

Metalogix Archiv		••• C ••• Roles - Archive Manager Ar archive se	nsks Administrator -
ROLES PERMISSIONS P	ROFILE TAGS MANAGEMENT		
	Management	Search servers management	^
Global	Auditing	Show auditing logs	^
AW7	Auditing	Export auditing logs	
	Auditing	Apply tags	
	Auditing	Access all mailboxes	~
		ШШ	
	GROUP OR USER NAME	ALLOW DENY	^
	default		
	AW\test (Tester One)		
	AW\test1 (Test User1)	\checkmark \checkmark	
	AW\Administrator (Administrator)		~
Ľ	Add users or groups		

Configure auditing service

Finally you need to make sure that the Auditing service is correctly configured. As default it can be found under

<Common Files>\PAM\Services\PAMAuditing\PAMAuditingSv.exe.config

Ensure that the service is using secure channels:

<channels>

<channel ref="tcp" name="PamAuditing" port="7783" secure="true" />

</channels>

Start auditing service

Open **Services** and start the Auditing service (MAM Auditing) if it is not running. In case you have made changes to its configuration in the previous step, you will have to restart it.

Auditing in ArchiveWeb

4

The Auditing tab is accessible in ArchiveWeb if Auditing is configured properly. Auditing feature allows administrator (or other users defined in web config) to log defined user actions in the email archive, i.e. the administrator has an overview of archived / restored / retrieved emails and performed fulltext searches. Even all actions made in Enterprise Manager console (Exchange / Files) are logged.

To view the logs, from the main pane click Report, then Audit from the grey sub-bar. Then unfold the Email Archive node to access the Archive Manager for Exchange logs or Archive Manager for Files node (or "Archive Manager Files Edition" node - both may be present in case older version has been upgraded) to access the Archive Manager for Files logs. Then you can browse through different types of logs – archive actions (Archive node), retrieve actions (Retrieve node) etc.

NOTE: Not all Auditing tab functions may be available for the logged-on user. The functions must be allowed for the user under <LoggedOnUser>/ Manage Settings/ Roles and Permissions sections. For instance, user sees by default only its own search result logs displayed under Email Archive/ Search. Auditors must have Access all mailboxes permission to view search logs of other users (under <LoggedOnUser>/ Manage Settings/ Roles).

← → ••• http://aw7/ArchiveW	(eb7/Manage/Manag	e/Roles 🔎 🕶 Rol	es - Archive Manager Ar	×		
Metalogix Archive M	/lanager 🛛 🖻	earch	archive se	earch report	tasks Administrator -	
STATISTICS AUDIT						
 Archive Manager for Files Archive 	Result count: 6 T Select all items in t	fotal rows selected: 0 folder				
	Drag a column hea	der here to group by that colur	nn			
Search	LOG LEVEL	LOG DATE -	METHOD	COMPUTER	USER	
 Settings 	🔲 🕛 Info	07/28/2015 9:27:52 AM	FilePam.Data.DataAcc	AW7	AW\Administrator	
Auditing General	🔲 🛈 Info	07/28/2015 9:27:05 AM	FilePam.Data.DataAcc	AW7	AW\Administrator	
General Permissions	First Prev Page: 1 of 1 Next Last					
PostProcessing	♀ Create Filter					
∋ Email Archive	<					
	Product: Category: Log level: Log date: Method: Computer:	Archive Manager Fi Settings.Permission Info 7/28/2015 9:27:05 / FilePam.Data.DataA AW7	S	s		
< >>	User: Message:	AW\Administrator Permissions update	d			

i NOTE: [OFFLINE] text next to the file server in the left tree-view indicates that the given server has been decommissioned in your environment and is accessible only via ArchiveWeb. This access must be configured under Manage settings/Profile/File Archive Servers section.

The log entries of the selected action are displayed in the main pane. Data of the log entry selected in the main pane are displayed below the list view (see the screenshot above).

List view functions are the same as in other ArchiveWeb lists:

- Change the column sorting order by selecting the given column header and clicking its down/up arrow on the right (in case the arrow is not visible adjust the width of the column by dragging the line)
- Group table data by any column. To do so, drag the column header to the bar right above the table. Generated groups can be expanded by clicking the arrows next to them. As usual, the sorting order can be changed by clicking the little arrow in the dragged column header.
- Create filters.

Any audit entry can be downloaded or tags can be added or removed from it. All tasks are available through the More actions menu. Click the More actions menu button located on the bottom right just below the list view. Then you can e.g:

- Add tags or Remove tags these options allow you to add or remove tags from selected items
- Export results to ZIP for search results only. This option will export search result items with summary to Excel file and allow to download the created ZIP to user's local machine.
 - **NOTE:** This function is only available if the user has "Export results to ZIP" role allowed for Audit (under <LoggedOnUser>/ Manage Settings/
- Export to XLS this option will export the selected items to XLS file on the user's local machine and provide a download link to the same file.
 - NOTE: When downloading large amount of items it is reasonable to split the data in more XLS files. To do this value for the key "ItemsPerXLS" needs to be changed in ArchiveWeb's web.config file. The default value is "500000" and represents number of rows for single XLS file during the export. In order to set correct value for the key please refer to Excel limits on the page <u>https://support.office.com/en-us/article/excel-specifications-and-limits-1672b34d-7043-467e-8e27-269d656771c3</u>.
- Download log entry: this option will download single log entry in log file format on user local machine.

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When two or more items be checked, the More actions menu appears automatically under the list view (see the screenshot below).

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About Us

Quest creates software solutions that make the benefits of new technology real in an increasingly complex IT landscape. From database and systems management, to Active Directory and Office 365 management, and cyber security resilience, Quest helps customers solve their next IT challenge now. Around the globe, more than 130,000 companies and 95% of the Fortune 500 count on Quest to deliver proactive management and monitoring for the next enterprise initiative, find the next solution for complex Microsoft challenges and stay ahead of the next threat. Quest Software. Where next meets now. For more information, visit <u>www.quest.com</u>.

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Technical Support Resources

Technical support is available to Quest customers with a valid maintenance contract and custome rs who have trial versions. You can access the Quest Support Portal at https://support.quest.com

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal allows you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product