

# Audit Overview

Version 19.70

The audit mechanism tracks each stage and export session performed by ADMe. All staging and export records associated with a given job policy migration are linked via a unique sequence number which can be used to filter associated records. The contents of an audit record are be viewed from the Audit tab or an Excel spreadsheet. Metrics include values such as the original Avamar backup date, migration date, details associated with the tape export (Networker only) such as save-set-id, media pool, tape bar code, browse & retention times, file and byte counts providing a comprehensive end-to-end chain of custody and history on a per client basis.

## Audit Record Column Names:

1. Record Type	12. Export Policy Name	23. Networker Browse Period
2. Migration Sequence Number	13. Last Migration Operation Flag	24. Networker Retention Period
3. Migration Start Date	14. Migration Log Name	25. Networker Backup Size in Bytes
4. Migration Start Time	15. Migration Status Flag	26. Networker Backup File Count
5. Original Avamar Backup Date	16. Export Application	27. Networker Save-Set Definition
6. Client Group Name	17. Networker Save-Set ID	28. Networker Media Pool
7. Avamar BUID#	18. Networker Backup Level	29. Networker Media Volume
8. Avamar Source Client Name	19. Networker Backup Start Date	30. Networker Tape Barcode
9. Staging Server name	20. Networker Backup Start Time	
10. Staging Path	21. Networker Backup End Date	
11. Export Server Name	22. Networker Backup End Time	

## Audit Record Physical Field Layout:

1. Record Type	12. Last Migration Operation Flag	23. Networker Retention Period
2. Migration Start Date	13. Migration Log Name	24. Networker Backup Size in Bytes
3. Migration Start Time	14. Migration Status Flag	25. Networker Backup File Count
4. Original Avamar Backup Date	15. Export Application	26. Networker Save-Set Definition
5. Client Group Name	16. Networker Save-Set ID	27. Networker Media Pool
6. Avamar BUID#	17. Networker Backup Level	28. Networker Media Volume
7. Avamar Source Client Name	18. Networker Backup Start Date	29. Networker Tape Barcode

8. Staging Server name	19. Networker Backup Start Time	30. Migration Sequence Number
9. Staging Path	20. Networker Backup End Date	
10. Export Server Name	21. Networker Backup End Time	
11. Export Policy Name	22. Networker Browse Period	

## Audit Record Types

Audit records are comprised of a series of fields described above of which four are considered **critical path** components (**CPC**), critical because they are needed to identify where to locate migrated data within the export application and over time they may have changed.

### CPC Related Fields:

- Export master tape server name
- staging server name
- staging path value
- export tape policy name

**CPC** record types on a per client basis are typically very few as these fields rarely change over time but when they do, they must be flagged accordingly. At install time every record will be considered CPC until such as time a second migration is performed.

### Audit Record Types:

- Critical-Path-Change (CPC)
- Staging-Succeeded
- Staging-Failed
- Export-Succeeded
- Export-Failed

Each audit record contains a migration sequence number to differentiate it from other unrelated migration sessions. A migration can be comprised of any record types CPC, staging and export records and filtering on its sequence number will return all record types associated with it.

Built in filters are available using a right-click to open a context menu containing several choices for limiting the quantity and record types displayed. User input is not required for these as required input is read directly from the row you have highlighted. Manual filters are also available from the column headers which do require manual input.

Built in filters include the following choices:

Filtering Options	Description
Filter-By-Sequence#	Highlight a row containing the desired sequence number to display all its associated record types
Filter-By-Export	Limit display to Export record types only from which you can then determine dates and/or sequence numbers to subsequently filter on
Filter-By-Client	Highlight a row containing the desired client name. Note, Export records do not contain a client name therefore will not be included in the displayed result. Refer to a specific sequence number and filter on it to identify a combination of both the staging and export records together.
Filter-By-Group	Highlight a row containing the desired group name to show all record types containing the highlighted group name
Sequence-Report	<p>Highlight a row to open a popup displaying the original run time report associated with its migration sequence number. An Email icon present in the upper right is used to email the run time report, corresponding audit file records in a csv file format and a custom spreadsheet to the email addresses defined in Env-1.</p> <p>Filtering audit records within Excel is simpler and more responsive than from within the Web-UI. It's also portable enabling forwarding detailed results to others who may not have direct access to ADMe.</p> <p><b>Note:</b> The entire audit file can be obtained using the <b>Download</b> tool button from the Audit tab. The downloaded file must be renamed to <b>filtered-audit.csv</b> and placed in <b>C:\ADME</b> folder in order to import to the custom spreadsheet via its built in Import Macro button.</p>

The master audit file can grow quite large resulting in sluggish response or failing to load into the audit tab. A CLI call **-audit** is available used to break up the master audit file into a series of smaller ones either by date or by line count. These smaller files can be viewed individually using Excel or put in place as the master audit file temporarily allowing it to be viewed from within the Web-UI. The most recent file can also be put in place as the current master to be used going forward. All these options are provided by the CLI call.

**Note:** The **adme -audit** command must be used with caution and only when ADMe is idle.

## adme -audit

The audit record count can become too large to successfully load into the ADMe Web-UI Audit tab. To overcome this condition, audit records can be divided into a series of smaller files by line count or by year date range allowing them to be viewed individually from within the Audit tab. These files are kept in **/home/admin/admeadmin/audit/history** directory.

It is important for ADMe be idle during the time audit file is being manipulated otherwise there will be a loss of audit records. The Audit tab reads only from the master audit file therefore when a smaller temporary file is put in place to be viewed from the audit tab, it must be replaced prior to using ADMe using your chosen new or original master audit file. The current master audit file **/home/admin/admeadmin/audit/.adme-audit.csv** will be automatically saved anytime a replacement of it is made using the options available.

The master audit and the smaller files can be viewed and filtered using the custom spreadsheet provided with ADMe located in */home/admin/admeadmin/admeadmin/doc/adme-audit.xlsm* and is the recommended approach for analysis. Use the embedded import macro to import a given audit file which must first be renamed to filtered-audit.csv and placed in a path name of C:/ADME.

**Current Master Audit File Stats Summary:**

Audit-Record-Count: 72916  
Audit-Sequence-Count: 390  
Audit-Oldest-Date: 2017-04-25 23:52  
Audit-Newest-Date: 2019-09-25 13:31  
Audit-Export-Count: 914  
Audit-Export-Success: 757  
Audit-Export-Failed: 157  
Unique-Year-Count: 3  
Master-Audit-File-#Copies: 9

**Master Audit Record-Count-By-Year:**

2017 -> 5605  
2018 -> 43178  
2019 -> 24133

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1. Divide master audit file by YEAR
2. Divide master audit file by Line-Count
3. View/Install a filtered audit file as the master
4. View/Delete filtered audit files
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**Enter desired option by Row-# or Q=Quit : >**