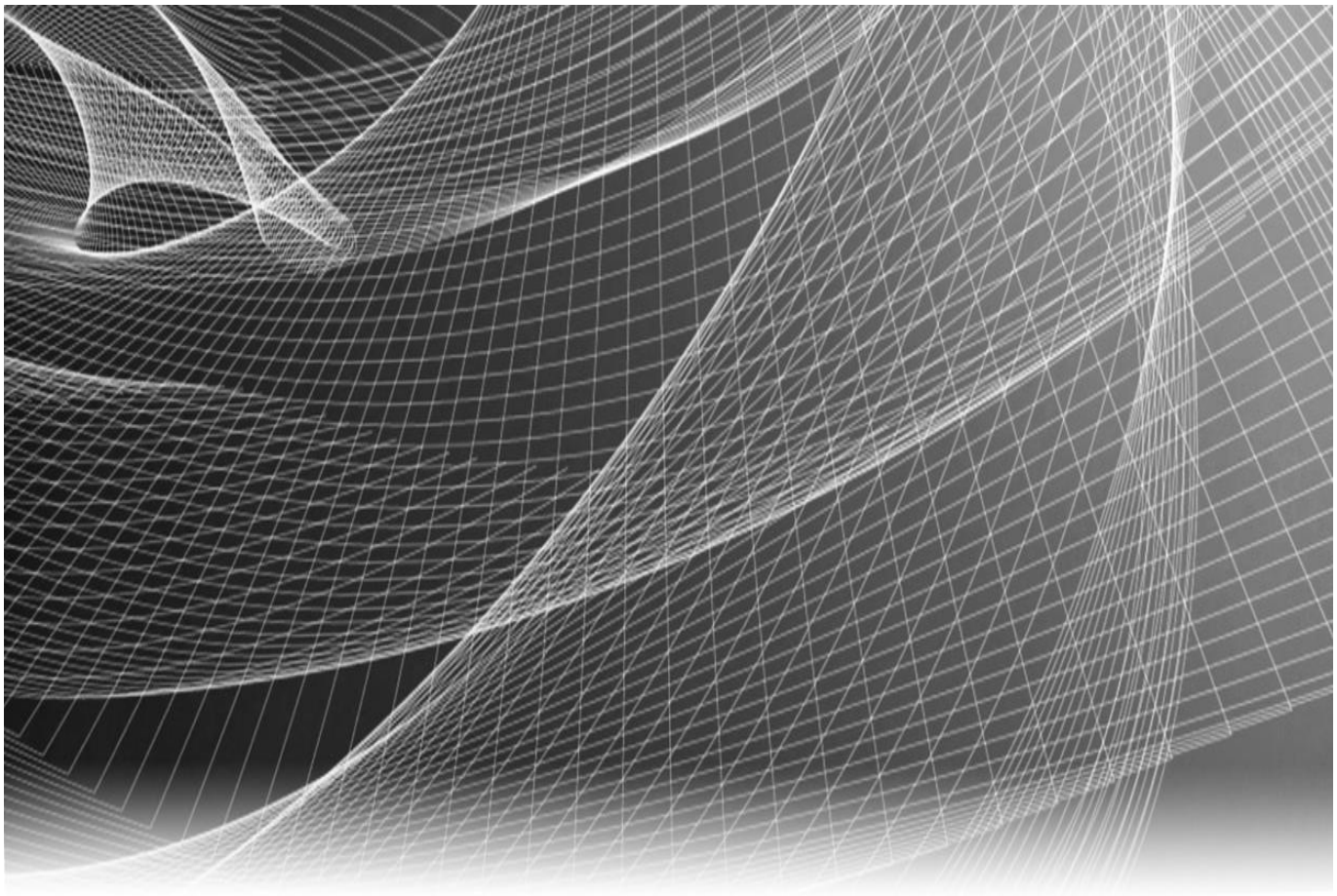

ADMe

Avamar Data Migration Enabler

Compatibility and Interoperability Matrix

Updated: April 06, 2023

Overview of ADMe

ADMe – Avamar Data Migration Enabler is a utility providing automation around the need for extending the retention of Avamar backup data by migrating their content to a different storage medium such as tape, disk or cloud-based storage. Backup data is re-hydrated to a staging disk area using a structured top level folder layout for organizational purposes and from there can be automatically backed up to a tape application using a standard file system backup. When staged to cloud enabled storage files are automatically uploaded to it potentially eliminating the need for a tape application. The migration process entails three distinct phases, a client/backup selection phase to identify the backups to act on, a rehydration or staging phase followed by an optional tape backup application, alternate Avamar system with DD, Dell PowerProtect Data Manager (PPDM) or cloud synchronization phase. These phases are automated end-to-end using ADMe Job policies eliminating the need for any manual intervention or localized scripting. Each phase may be performed interactively or using ADMe automated job policies as required.

ADMe Interoperability Matrix

Avamar System Types	Source System	Replication Target
ABE – Avamar Business Edition (deprecated)		
Single Node +DD	X	X
Multi Node System +DD	X	X
Networker Dedup Node[1] (deprecated)		
AVE – Avamar Virtual Edition +DD	X	X
AER – Avamar Extended Retention[2]	X	
IDPA	X	X

Notes:

1. Only FS backups are supported from a Networker dedup node (**deprecated**)
2. Best effort support for recovery from existing AER tapes

Staging Server OS Types	Rehydrate Mode[1]	Archive Mode[2]
Windows[3] - 2003, 2008, 2012, 2016	X	
Linux[3] - RedHat, SCO, SuSE	X	X
Unix[3] - AIX, HP, Solaris, FreeBSD, MAC	X	

Notes:

1. **Rehydrate mode** recovers Avamar backup data to its original file format with no dependency on Avamar in order to utilize the file data
2. **Archive Mode** recovers Avamar backup data to a streamed PAX file format similar to that used by AER but has a 100% dependency on the need for an Avamar GSAN to import it back to in order to be able to recover its contents
3. OS versions chosen must be valid and supported by both Avamar and the tape application being used

Export Applications[1]	Rehydrate Mode	Archive Mode[6]
Avamar[2]	x	
Dell PowerProtect Data Manager (PPDM)	X	X[6]
EMC Networker[5]	X	X[6]
Symantec NetBackup	X	X[6]
Symantec Backup Exec[3]	X	X[6]
HP Data Protector	X	X[6]
ArcServ / Brighstore	X	X[6]
TSM	X	X[6]
CommVault[4]	X	X[6]

Notes:

1. The use of non EMC tape applications are the responsibility of the user
2. Avamar used as a target destination when migrating from a GSAN only or GSAN + DD system to a GSAN/DD Griffin system
3. Backup Exec 2012 and previous versions are supported
4. Full end-to-end automation only available with a Windows staging server
5. Networker version should be latest supported by Dell EMC
6. Archive mode should be used as a last resort due to its dependency on the need for Avamar GSAN storage to which it must be imported to convert it to a usable format

Copy-To-Cloud[1]	Rehydrate Mode	Archive Mode[4]
ATMOS – via GeoDrive	X	
ECS – via GeoDrive	X	
Amazon S3 – via Amazon's TNTdrive[2]	X	
EMC CloudBoost Indirectly via (Networker)	X	
All Other 3rd Party Cloud GW's[3]	X	

Notes:

1. Cloud enabler tools other than EMC Geo-Drive are the responsibility of the end user
2. Amazon support is the responsibility of the user
3. Support for any cloud provider is feasible assuming its object storage can be presented via iSCSI, CIFS or NFS
4. Archive mode should be used as a last resort due to its dependency on the need for Avamar GSAN storage to which it must be imported to convert it to a usable format

Plug-In Types	Rehydrate Mode	Archive Mode[9]
DB2	Not-Supported	Not-Supported
Exchange Legacy 2003, 2007	X	
Exchange VSS 2007, 2010, 2013, 2016	X	X
FS File System	X	X
Hyper-V VSS	X	X
Lotus Notes	X	X
NDMP[5] Celerra/VNX[7], ~~NetApp~~[6], Isilon[1]	X[5]	X[4]
Oracle[2]	X	X
SAP[3]	X	X
SharePoint VSS[8]	X	X
SQL	X	X
VMimage	X	X
Windows VSS (System State)		X

Notes:

1. NDMP for Isilon requires Avamar version 7.1 or higher
2. Oracle has a dependency requiring it to be re-ingested to an Avamar system when recovering it from export application and the original BU must be scheduled from Avamar server versus client based by the DBA
3. SAP with Oracle will be treated as flat files and may require user action to ensure appropriate backups are being selected. Due to backup selection challenges, consider SAP support as a best effort only.
4. Large NDMP backups recovered in Archive mode may result in a PAX file size exceeding the max file size permitted by the staging server OS and filesystem
5. NDMP redirected recoveries to Windows or Linux FS does not preserve NAS specific ACLS or Extended File Attributes for Windows
6. NDMP Support for NetApp is discontinued due to its poor rehydration performance from Avamar and other technical challenges

7. A Celera/VNX using its Space reduced Backup feature, must have this feature disabled by setting it to 0 and a new Lvl-0 backup performed afterwards. Refer to ETA 495263 available from ADMe home page
8. SharePoint support is limited as it performs a directed recovery of the complete backup content to an out of place directory which may not be useful in all situations
9. Archive mode should be used as a last resort due to its dependency on the need for Avamar GSAN storage to which it must be imported to convert it to a usable format