DNA Evolution: Features List & System Information

ARCHIVING & BACKUP WORKFLOWS
Different ways to archive via the largest selection of workflows

Avid, Adobe Project Archiving	Select and archive entire Avid®, Adobe® projects; intelligent collection of all media and metadata (including AMA linked media, native Avid media, graphics etc.); *NOTE: effects not yet rendered are archived as part of Avid bin file(avb)*
Avid, Adobe Project Backup and DR	Intelligently monitors Avid and Adobe projects and performs incremental backups for purposes of disaster recovery
Folder-based Archiving	Archive folders via a simple Web interface designed to help you quickly archive camera media, removable drives and other folder-based sources
Drag 'n' Drop Archiving	Setup automated drop folders on your existing SAN or storage for high-speed, drag 'n' drop archiving
Policy-based Archiving	Setup archiving on folders and workspaces based on automated policies, such as time, size or access
AAF/XML/EDL Archiving	Archive media files connected to projects, bins, and sequences via AAF/XML/EDL
Third-party Archiving	Archive via the CatDV, Avid® Interplay® interface, with the ability to connect to other third-party applications

BROWSE, SEARCH, AND PREVIEW
Options and flexibility to search and find the content you need

Global Search	Search all archives across file metadata, camera metadata, and user tagged metadata
Filename Search	Search across all basic properties, such as file names, extension or tape id
Clip Search	Search across automatically extracted clip names, such as P2 clips, and Avid Op Atom
Extended Search	Search across all extracted metadata fields, *(see the "Metadata Management" section)*
Web File-system Browse	Browse your entire archive via the Web interface, even if tapes are not online
Web Low-res Previews	Play previews and proxies via the Web interface, *(HTML-5 supported previews require a third-party transcoder)*
Cue Points	Add metadata to timeline and search with global search tools
Range Markers	Add metadata to ranges in the timeline and search with global search tools

RESTORE, CONFORM, AND ACCESS DIRECTLY FROM LTO
Maximum flexibility to get your data back

Web Restore	Restore files and folders simply by browsing, searching, and selecting via the Web
AAF/XML Restore	Restore offline bins, sequences, and projects by restoring via AAF/XML/EDL, *(requires the AAF/XML to be generated with the media online; must be generated before archiving and media removal)*
Third-party Restore	Restore via CatDV, Avid Interplay interface, with the ability to connect to other third-party applications
Conform	Enables conform of high-resolution clips by specifying a low-resolution AAF/XML/EDL

PERFORMANCE ACCELERATION
Deployments and software designed for maximum performance

Direct-connect Transfers	High-speed, non-network transfers are enabled by connecting source storage directly to LTO tape
Media Data Movers	All transfers are performed by media-tuned data movers rather than Finder®, Windows® Explorer
Intelligent Scanning with Delta Differencing	Media mover intelligently monitors existing workspaces and ingest folders–only archives or restores new and changed content
File-system Character Mapping	Map illegal and incompatible filenames between client file systems and LTFS for smooth archive and restores
File and Folder Filters	Setup include and exclude file and folder lists
IOPS Limiting	Limit the number of IO requests sent to the shared storage system
NAS/SAN Tuned Performance	Designed and tuned for media SAN and NAS storage (e.g., Avid ISIS, Facilis, Isilon) for the fastest data transfers with custom tunable parameters

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TAPE MANAGEMENT
Advanced features to help you more reliably access and manage LTO media

Tape Spanning	Automatically spans data sets across tapes, *(individual files are not spanned)*
Tape Grouping	Assign tapes to archives to prevent accidental overwrites
Tape and File Checksum	Automatically maintains a running checksum of every block, file, and tape during the archive process
Tape Verification	Enables automated and manual tape verification that performs multiple checks, (ltfs checks, per file checks), ensuring data consistency for long-term protection
Tape Duplication	Allows automated tape duplication for multiple copies
Tape Log Notes	Add log notes per tape for better tracking when offline

METADATA MANAGEMENT
Advanced extraction, indexing, and search engine

Extraction Plug-ins	Architecture allows for third-party plug-ins for extracting all metadata from archived data into XML key value pairs
Unlimited Metadata Fields	No limit on the number of metadata fields that can be extracted
No File Count Limits	No limit on the number of files that can be managed
NoSQL Metadata Store	Advanced NoSQL metadata store enables massive scalability and high speed search queries

SYSTEM MANAGEMENT
A single point of control for your entire environment

Browser Interface	Manage all aspects of the system by browser from any network-enabled system
Email Alerts	Setup email alerts for failed transfers, warnings, and other system events
User Access (Machines)	Limit access to archive managers based on user and group access
User Access (Folders)	Further limit access by enforcing folder access controls based on users and groups
User Group Access	Assign users to groups for wider access controls
Previews Management	Automatically indexes any network share that is hosting previews
Backup Management	Backs up the entire metadata catalog to a configured network share
Web Monitoring	Access all system health, monitoring, and error logs via the Web interface
System Stats	Web-based monitoring of servers for easy diagnosis of system resources
Remote Support Tools	Tools to help partners and support personnel to easily login and quickly debug system issues

OPEN ARCHITECTURE
Truly open architecture enables open data, open metadata, and open storage access

Open Data via LTFS	Preserves all data in its native format, (files and directories), and uses the open LTFS format on LTO tape media
Open Metadata via XML	All metadata is extracted and preserved in an open XML file-system
Open Storage Access	Interfaces via open file-system enabling archiving and restore workflows from any open SAN, NAS or storage system

SCALABILITY AND CLUSTERING
Easy scaling to unlimited data movers; maintain a single point of control

Central Controller	Central controller provides a single point of management and metadata indexing for multiple data movers, (Archive Managers)
Archive Manager Clustering	Ability to add Archive Managers, or LTO archiving stations, and cluster them together for a single point of management

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SYSTEM INFORMATION

DNA Evolution Series X and N: Include hardware server hosting the DNA Evolution Controller (Linux) and a DNA Evolution Archive Manager (optional)

DNA Evolution Controller Software (Linux®): Comes prepackaged with all hardware

DNA Evolution Archive Manager Software (Linux): Comes prepackaged with all hardware

For more information about DNA Evolution product models:
- Visit: http://www.storagedna.com/products/dna_evolution_models/
- Download: DNA Evolution Product Models (PDF)