

## DNA Evolution™ Version 2.0: Release Features (7391)

### Illegal Character Detection

- Auto-detection of any illegal characters prior to file transfers
  - Illegal characters in files and or folders include the following:
    - Linux: Leading and trailing spaces on files and folders, Colon : is illegal
    - OS X: Leading and trailing spaces on files and folders, Colon : is illegal
    - Windows: \* | \ / : < > ? are illegal
- Any file or directory with an illegal character will be identified during the scan phase and the job will stop with an error until the end user updates or removes the files and folders with the illegal characters
- **NOTE:** *The run will stop on every illegal entry (file/folder) on a scan and this means you may have to repeatedly run the job until all illegal characters issues are resolved; a patch will be provided to detect ALL illegal entries in a single scan in release 2.1*
- **NOTE:** *Archives that ran without errors prior to v2.0 may now result in errors*

### Queuing

- Implements queuing on jobs with automation systems; (note: queuing is not applicable to standalone tape drives)
- With queuing, multiple jobs can wait on one or more devices and then proceed when devices are freed up

### miniMAM

DNA Evolution gets its first set of mini-media asset manager (miniMAM) features as part of version 2.0:

- **Clip view**
  - Performs automatic clip extraction on files being archived
  - Clip names are extracted differently based on file types: For simpler file types such as MOVs, MXF Op 1a files which have a single file to clip relationship, the clip name is simply the filename; for more complex types, such as MXF Op atom files, P2, native Avid media, the clip name is extracted by looking into the different audio and video files
  - Clip names can be viewed by browsing to the new “Clip view” in the browse section of the user interface under every archive
  - Clip names provide a view of all clips irrespective of the directory structure archived; gives end users a simple way to see and search all their media without having to browse complex directory structures and cryptic file names
- **Proxy browse**
  - Allows low-resolution QuickTime playable proxies that can be viewed from the DNA Evolution Web interface
  - Proxies are not created by DNA Evolution and must already exist or be created via a 3rd party transcoder
  - Once created, DNA Evolution can “index” the proxy folder; (in most cases, the proxy folder will exist on a network share that will be mounted directly to the DNA Evolution Controller)

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### Tape Verification

- Rapid Web-driven tape “verification” function
- This verification function **MUST BE RUN** before source media is deleted to ensure the tape and data integrity
- DNA Evolution performs a number of checks:
  - Tape media
  - LTFs consistency
  - File-by-file checksum

### Tape View

- Enhancements include a more accurate tape utilization algorithm, ability to see all archives a tape belongs to, and tapes that are full

### Avid® Interplay® Support

- Integrates with Avid Interplay as an archive middleware to transparently archive and restore content from the Avid Interplay Access/Media Composer interface
- Integrates into Avid Interplay via Web Services eliminating the need for an additional archive database
- How it works:
  - DNA Evolution can monitor any configured folder in Interplay for archive or restore via web services
  - To archive, an end user drags elements (master clips, sub clips, sequences etc.) to the “watch folder”; DNA Evolution detects the elements via web services and archives the underlying media files and associates the mobIDs
  - DNA Evolution can also move the media files, so Avid Interplay indexes and sees the media as offline, and can update Avid Interplay user metadata fields with Tape serial
  - To restore, an end user drags offline elements into a “watch folder”; similar to archive, DNA Evolution detects the elements and restores the underlying media files
  - Caveat: Currently, web services does not list media files for “rendered effects”; as a result, rendered effects cannot be archived and must be re-rendered

### CatDV Support

- Integrates with CatDV as an archive engine to archive and restore content from the CatDV interface
- Integrates with the CatDV worker node and provides a native way for CatDV users to archive, delete, move, and restore content
- How it works:
  - A CatDV client can select certain elements within the CatDV interface for archive and/or restore; when selected and published with a metadata field, the CatDV client updates the CatDV server over a LAN connection

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- Upon seeing the change in the database, the CatDV worker node exports an XML into a DNA Evolution watch folder; DNA Evolution processes this XML for media that needs to be archived and/or restored
- Upon archive and restore, the DNA Evolution updates the CatDV database with the appropriate fields

### Enhanced Bin/Sequence Archive and Restore for Avid®, Final Cut Pro® 7, Adobe®

- Fully automated mechanism for editor to archive and restore their bins and sequences – without help from IT
- The mechanism will allow an editor to export a bin/sequence in a watch folder via AAF/XML
- Once exported, DNA Evolution will process the bin/sequence for archive or restore and manage the process transparently
- Editors will be able to view the progress via a Web URL
- Supported types:
  - Avid AAF for AMA and non-AMA media
  - Final Cut Pro 7 XML
  - Adobe Premiere AAF/XML

### Thunderbolt™

- A Thunderbolt version of DNA Evolution designed to offer “true” desktop/laptop archiving to LTO
- This version of DNA Evolution can be installed on any Mac laptop or desktop for field or standalone archiving and restores

### A Subset of Bugs Fixed for Release 2.0

- Fixed issue that causes both transcoded and source media to be archived when using an AAF file for a ticketed archive
- Special characters support for detection and browsing of Unicode characters
- Allow catalog folders with utf-8 characters to be browsable from the web application
- Detection of illegal characters and leading/trailing spaces in source files
- Fixed issue with job occasionally not stopping when in the scanning phase
- Available tapes are not differentiated from assigned or full tapes in Archive Settings pane
- Fixed archive name length to allow for appropriate number of characters
- Fixed issue that prevented current tape from unloading in autoloader when previous slot of the tape in the drive becomes occupied
- Tape page shows error when ampersand or single quotes are used for notes
- Ticketed jobs need a way of clearing tickets that have been completed successfully
- Unable to process some AAF tickets for archive or restore on a Macintosh client
- Loading or unloading a tape from the autoloader page shows mounting and unmounting in the user interface
- Fixed issue that causes DEVICES\_NOT\_AVAILABLE or TAPE\_AUTOLOADER\_NOT\_ONLINE to appear when a job is run even if the devices are available

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### A Subset of Bugs Fixed for Release 2.0 (continued)

- Icons do not appear for known file types if the extension is not correct
- Omit the StorageDNA specific folders under /Volumes from being archived
- Files are not picked up for archiving until the user opens the Archive tickets pane from the web application
- Missing source folders are not reported properly in report
- Web becomes unresponsive for long period of time after job fails with FILE\_PERMISSIONS or UNDIAGNOSED errors
- Job occasionally does not start transferring files after long running scan
- Fixed issue that was writing tiny log files to temporary directory during scan for new content
- Allow web file search to be case insensitive
- Monitoring dialog will show number of successfully archived files even after a restore has been run
- Fixed autoloader support to include support for 8 character barcodes
- Fixed issue to make sure that only the latest copy of a file is restored on a web folder restore
- Mac OS AAF-based archives contain wrong path information
- Fixed issue to ensure the R3D files are restored when selecting EDL restore option for RED cameras