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**myLTodna™**  
Tape Authoring Application  
Users Guide

Version 2018.1, Released October 2018, Indianapolis, Indiana USA

[support@imagineproducts.com](mailto:support@imagineproducts.com)

[www.imagineproducts.com](http://www.imagineproducts.com)

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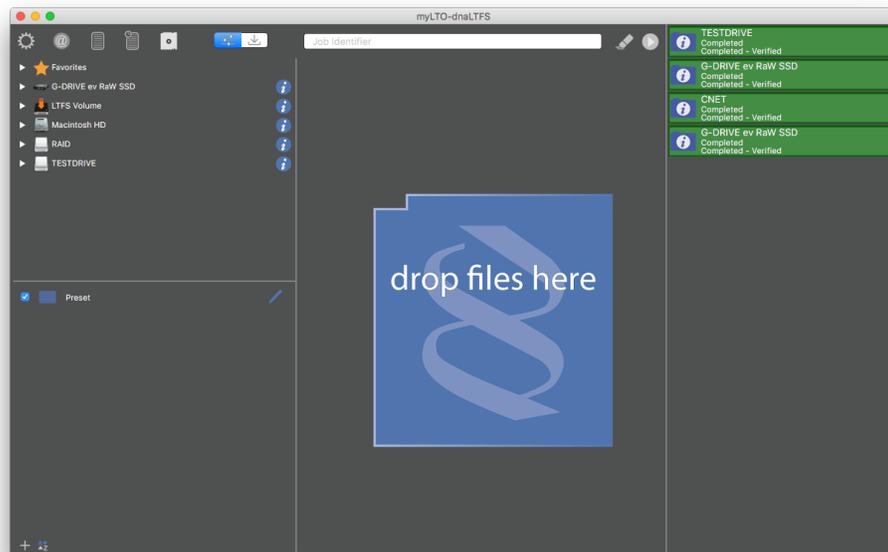
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## Welcome

We're pleased that you've chosen **myLTODna** to securely copy your data files to LTO taps.



myLTODna works with any content, is not specific to video files, however it is optimized for that purpose.

Writing to LTO tape is easy. Simply format a tape and set it as an output location in your Preset (that defines how to name folders on the tape).

Then drag files to be copied into the queue. Click '**Begin**' and myLTODna will index and analyze your files and begin writing them to tape. It will extract thumbs and video metadata for reports.

**NOTE:** This application is for late model Macintosh systems. Features and dialogs may vary slightly between them.

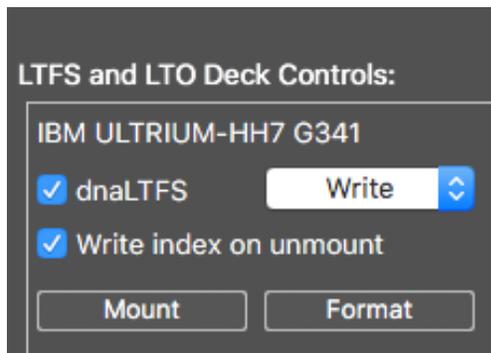
## Overview

**myLTODna** for Mac is an automated copy utility application geared for media files. The software takes advantage of the Linear File Transfer System (LTFS) developed by IBM to present LTO tapes in a fashion similar to hard disks and other type storage volumes. By installing and activating **dna-LTFS** (a StorageDNA product), the LTFS environment is further enhanced to allow tapes to be mounted and used more like a hard drive by video applications.

**NOTE: dna-LTFS is sold separately; it is not included in myLTO installer.**

LTFS mounts a tape as a user defined volume within the computer operating system. This makes it possible to write and read from the tape as if it were a disk and save files in their original format. It also makes myLTO hardware independent—you can use it with any Ultrium® LTFS compliant LTO tape drive (e.g. LTO-7, LTO-8).

To save to tape, File and Folder names must comply with LTFS standards. For your convenience, myLTO alerts you to any non-compliant characters and prompts to automatically change them for tape storage.



myLTODna controls deck functions, such as formatting and mounting tapes, and copy operations onto LTO tape with a simple, easy to use interface.

Check '**dnaLTFS**' to invoke the dnaLTFS features and explicitly '**Write**', '**Train**' or '**Read**' tapes for dnaLTFS use.

**NOTE:** To work with tapes in standard LTFS mode simply uncheck the **dnaLTFS** option.

With the software you may also choose to make additional copies of your assets onto multiple LTO drives and local hard disks at the same time.

Improve consistency by letting myLTO auto-name output folders. Select from various custom naming conventions. Further organize jobs by nested (sub) folders and label them using concatenated naming conventions such as dates, project names, locations, etc.

Alternatively, you may Drag and Drop files directly to the LTO tape without creating any additional folder names.

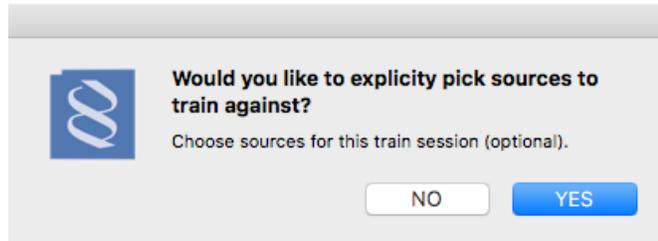
Jobs have both progress bars and are color-coded to indicate status (copying, verifying, finished). They may be named for more clarity, and individually removed from the task list. And myLTO lets you gracefully **'Pause'** copy processes and **'Resume'** where you left off.



Once a tape is written to, you can easily switch to **dnaLTFS Train mode** from the LTO controls panel.

In this mode, the application will create a Random Access Database (RAD) file based upon typical file access usage by video applications. The RAD file allows applications to quickly read files on the tape, bypassing typical seek delays.

You may train a tape by running a target application and opening each media file.



Alternatively, let myLTOdna automatically analyze the files on your tape and build the RAD file for you.

Choose from two different PDF report styles for impressive reports. PDFs support up to four extracted frames (sampled towards beginning, middle and end of clips) or one (beginning only) from over 20 known camera types.

**Video Files:**

**PM Saves the day.m4v** Size: 71.8 MB



Framerate: 23.98  
 TimeCode: Unknown  
 Format: FFmpeg Utility  
 Dimensions: 1280 x 720  
 Codec: h264  
 Duration: 00:02:27  
 XXHash-64 Checksum: 589f1f182fab1c38  
 Destination 1: /Users/danmontgomery/Desktop/pdfest2/4/PM Saves the day.m4v  
 Status: Verified XXHash-64 Checksum: 589f1f182fab1c38  
 Size: 71.8 MB

**ShotPut Kid-HD 1080p.mov** Size: 94.6 MB



Framerate: 23.98  
 TimeCode: 00:00:00:00  
 Format: Apple  
 Dimensions: 1920 x 1080  
 Codec: H.264  
 Duration: 00:00:36  
 XXHash-64 Checksum: 02f68a5adc33afa6  
 Destination 1: /Users/danmontgomery/Desktop/pdfest2/4/ShotPut Kid-HD 1080p.mov  
 Status: Verified XXHash-64 Checksum: 02f68a5adc33afa6  
 Size: 94.6 MB

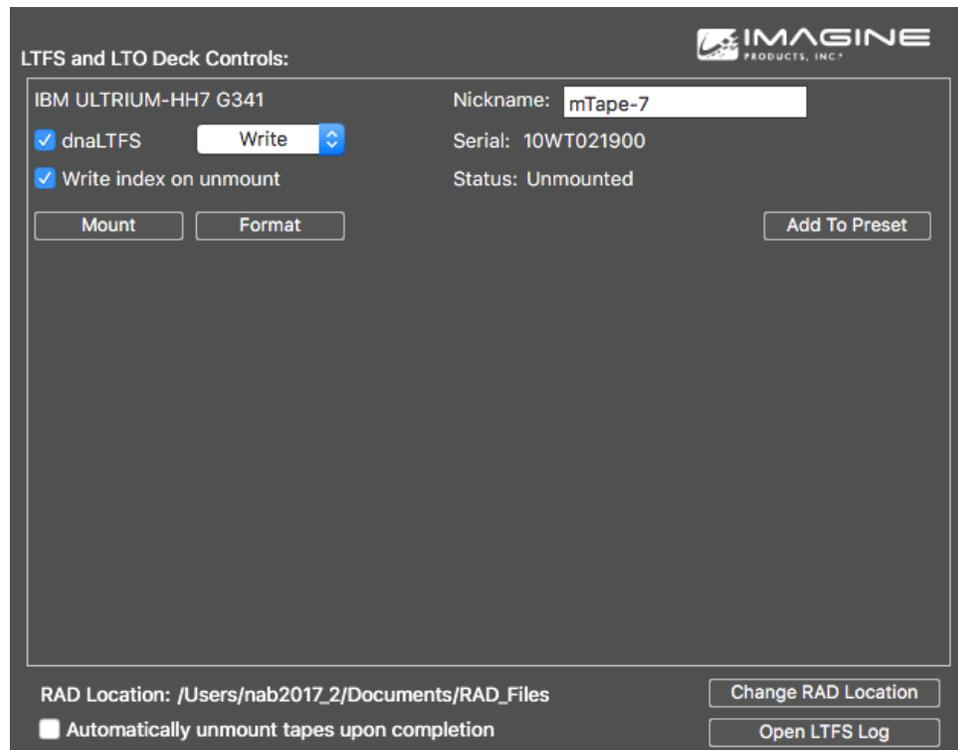
## Tape Controls

With the LTO drive connected to your computer, click the **'Tape'** icon in the application toolbar to open the LTFS and LTO Deck Controls panel.



## Format Tapes

Ultrium LTO tapes are supplied in an unformatted state. The first time you load a tape in the deck myLTOdna will detect whether the tape is properly formatted for LTFS use.



You can assign a **'Nickname'** to the LTO drive for easy reference (this is the Drive, not the tape itself).



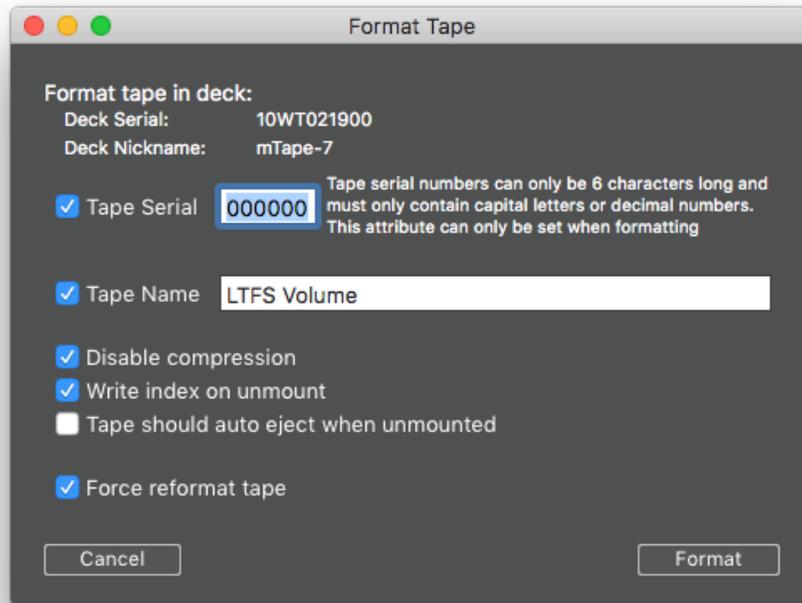
When creating a tape for dnaLTFS use, check the **dnaLTFS** box and select **Write** mode.

**TIP:** At the bottom of the LTO Deck Controls window if you don't '**Automatically unmount tapes upon completion**' you can simply switch to '**Train mode**' in this dialog while the tape remains mounted.

For standard LTFS tapes, if the tape drive will be left unattended afterwards it's best to enable the automatic unmount option. By un-mounting you'll prevent potential harm to the tape should a power outage, computer hibernation or perhaps an automated system update occur in your absence.

To **Eject** the tape, always unmount first through the software. Then depress the '**Eject**' button on the tape drive for a second and wait for the tape to expel from the drive.

New tapes are provided in an unformatted state. Click '**Format**'. The dialog will populate with suggestions. User defined format information include Serial and Name. Tape Serial numbers are limited to 6 (capital) alphanumeric characters.



**CAUTION!** Tape Names cannot contain any special characters (e.g. ~, #, \$, \, /, \*, etc).

**TIP:** For use with tape library systems, the '**Tape Serial**' should match the barcode physically applied to the tape cassette.

A unique Tape UUID is assigned by the drive during formatting. This is an un-editable field and is for systems to be able to positively identify the tape.

For best performance in archiving video files, '**Disable Compression**'. Compressed mode will impede write speeds and will not increase tape capacity unless the files you're backing up are compressible (e.g. text files).

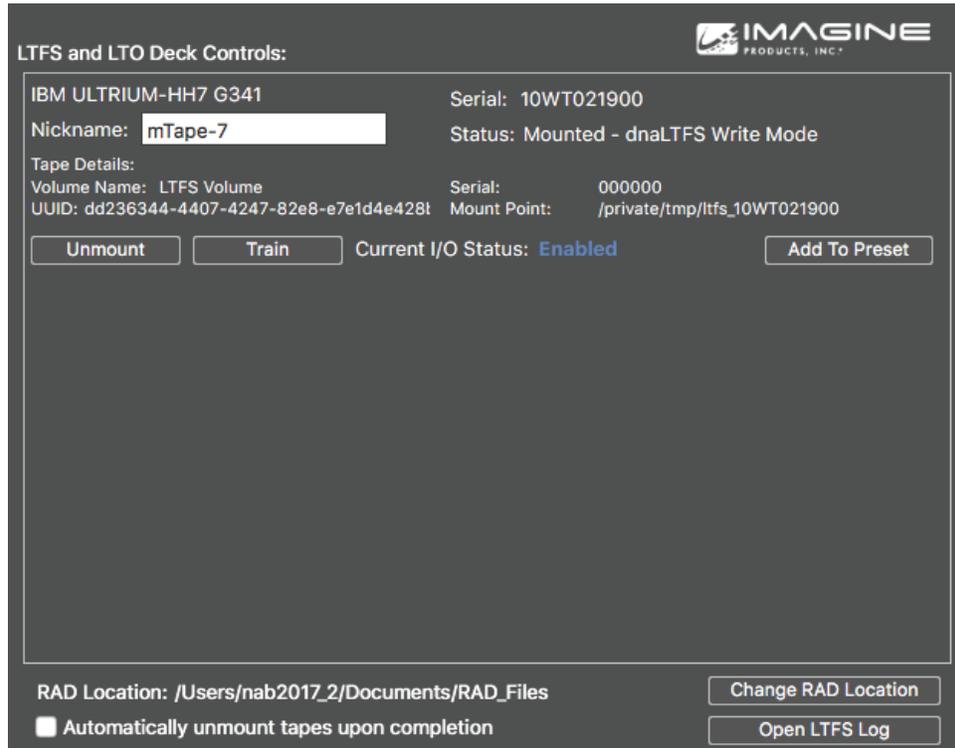
'**Write Index on Unmount**' means the tape index will only be saved in memory and not be added to the tape until the tape is unmounted. With this option disabled, the drive will automatically update the tape index periodically (IBM defaults to every 10 minutes).

**TIP:** To Eject the tape manually, be sure to first Un-mount it through the software. Then depress the '**Eject**' button on the tape drive for a second and wait for the tape to expel from the drive.

Tapes that contain data or have previously been formatted may not respond to the '**Format**' command (to protect data). You can '**Force reformat tape**' by checking this box then clicking the '**Format**' button to begin.

## Mount LTO

A tape may be present in the deck and not mounted. Click **'Mount'** to load the tape. Once a tape is mounted, you'll be able to see its details.



Once mounted, a tape will also appear on your **Desktop** and in the list of attached drives inside myLTODna. The tape's icon will present differently depending upon the dnaLTFS mode selected.

### Write Mode



### Train Mode

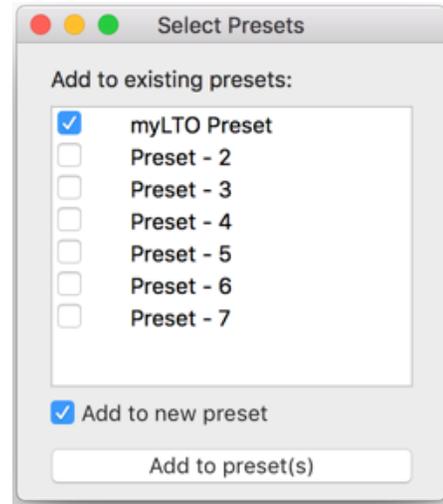


### Read Mode



A tape mounted in **'Write mode'** can easily be added as an output location to any of your presets.

Click **'Add to Preset'** for a list of your existing presets to choose from.



## Un-Mount LTO

Un-mounting the LTO drive disconnects it from LTFS control. This command does not eject the tape. However it does include final updates to the tape's index so please be patient.

If you've enabled the **'Auto Eject (the tape) on Unmount'** option, the tape should expel from the LTO drive.

**TIP:** When creating tapes for dnaLTFS, you can more quickly switch between **'Write'** and **'Train'** modes by not enabling the **'Auto Eject'** option.

To manually eject the tape, depress the Eject button on the tape drive for a second.

**CAUTION! DO NOT HOLD THE EJECT BUTTON for more than 5 seconds,** doing so may cause the LTO drive to reset.

## Preferences

This section will help you enable the **myLTOdna** settings to perform in the manner you want when archiving files to tape.

If this is your first time starting myLTO, you will need to check a few default settings.

The most frequently changed settings are grouped in '**Quick Select**' menus at the top left of the application toolbar.



Each of these has a link to the full '**Preferences**' menus of infrequently changed choices. You can also access the full '**Preferences**' menu, including '**Advanced Preferences**', from the myLTOdna applications menu.

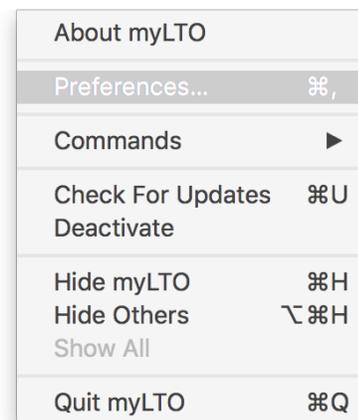
Additionally, refer to **Presets** in the next chapter of these instructions for configuring presets and using automatic folder creation if you plan to use the '**Preset Mode**' for processing (versus '**Destination Mode**' where files and folders are dropped directly between mounted drives and the LTO tape).

## Job Options



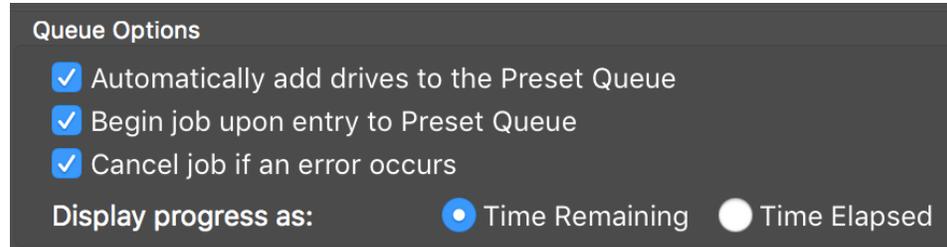
Click on the '**Job Options**' button top left of the application toolbar to choose the job sequence, verification type and other options.

Alternatively, click '**Preferences**' from the myLTOdna application menu to access all **Preferences**.



## Queue Options

Under '**Queue Options**', choose how processing will be initiated.



Select '**Automatically add drives to the Preset Queue**' to immediately begin processing when any new removable drive is detected. In other words, in this mode myLTO will ignore already attached drives and mounted volumes, but when a new drive is sensed it will begin processing that one.

**CAUTION!** Do not plug in an external hard disk while in **Automatic mode** unless you intend to archive it's entire contents!

Check the box to immediately '**Begin job upon entry to Preset Queue**' if you prefer copying to start without manually pressing the '**Begin**' button on the main window.

Should a failure or error occur during processing, you have the choice to immediately terminate the copy processes ('**Cancel**') or just be alerted and continue with the remainder of the job.

**NOTE:** An error will be indicated in the status and the progress will turn **RED**. If you've chosen not to cancel on errors (unchecked this option) the job will finish what it can and all reports, including checksum text files, will include Error Warnings (e.g. "Completed with Errors").

You have the choice of displaying estimated '**Time Remaining**' or '**Time Elapsed**' in the job progress status. The Time Remaining option will estimate how long overall copying and verification may take and then count down the displayed time. Estimated time is continuously updated depending on output location performance.

## Job Sequence

The job sequence options are designed to give you more control over source drive(s) use, particularly for disk-to-disk copies.

One at a time	Let myLTODna determine the most optimized manner to copy files, or instruct it to perform the jobs in the sequence they were added to the queue.
✓ Optimize drive use	
All at once	

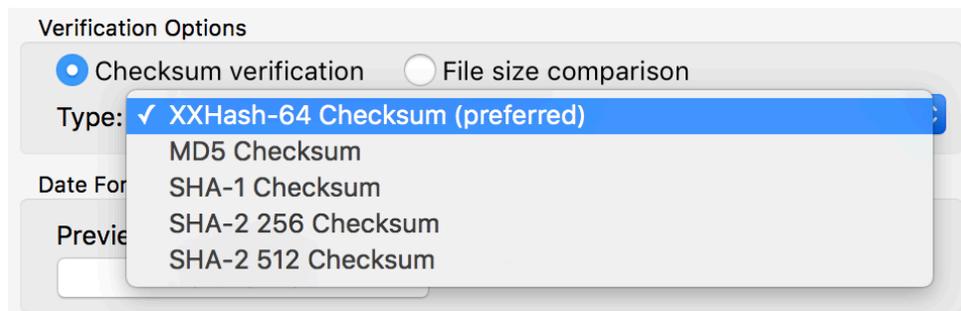
'**One at a time**' simply performs the jobs in the queue in the order in which they were added.

'**Optimize drive use**' allows the application to determine the most efficient use of both source and destinations to prevent thrashing and ordering of activities at each. For LTO tapes, which are linear, files are going to be written sequentially one at a time, so this option only affects output to hard disks if any copies are being made there.

'**All jobs at once**' means any queued jobs are all started at the same time when you click Begin. This option should rarely be used—it's intended primarily for copies between drives, not for writing to LTO tapes.

## Verification Options

myLTODna offers a number of verification types to choose from.



**NOTE:** Checksum verification is a redundant operation for LTO drives since they have built-in byte-to-byte checking during the write process. With checksum verification enabled, at the end of the tape write processes myLTODna will read back each file from the tape to compare it's checksum to that of the source files.

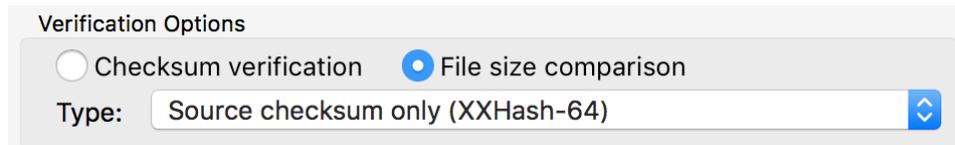
**CHECKSUM VERIFICATIONS ARE NOT COMPATIBLE with dnaLTFS tape authoring. Use only FILE SIZE COMPARISON option in dna WRITE Mode.**

Checksum type verifications (such as XXHash, MD5 & SHA) use algorithms that calculate a binary value for the bytes of a file. The idea of checksums is to also identify any misplaced or changed position bytes in which case a file size may match but a checksum would not.

**TIP: XXHash** is a newer checksum method that employs near RAM speeds for processing. It can speed up verification to near read access and significantly improve throughput for RAW and other media with large quantities of files.

For faster overall jobs you may choose a less intensive verification option called '**File Size Comparison**'. This verification relies on the operating system's report that the files made it to the output destinations correctly and each match the source file size.

**NOTE: Use only FILE SIZE COMPARISON option in dnaLTF5 WRITE Mode.**



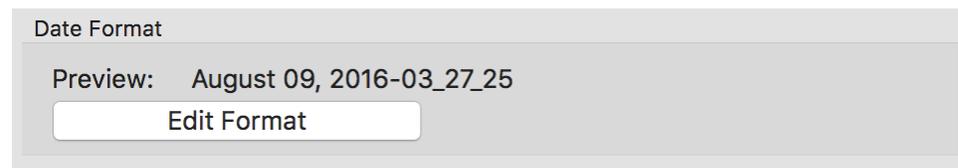
The screenshot shows a 'Verification Options' dialog box. It contains two radio buttons: 'Checksum verification' (unselected) and 'File size comparison' (selected). Below the radio buttons is a dropdown menu labeled 'Type:' with the selected option 'Source checksum only (XXHash-64)'. A blue arrow icon is visible on the right side of the dropdown menu.

You can also still obtain and save an XXHash checksum from the source.

**TIP:** Enable the option under Reports Preferences to '**Save Checksums with job**' and you'll still be able to determine if the copied files still match the originals in downstream workflows with applications such as **ShotSum™**.

## Date Format

Choose the '**Date format**' for Reports and Notifications. The '**Standard American Date**' includes hours\_minutes\_seconds suffix



The screenshot shows a 'Date Format' dialog box. It features a 'Preview:' label followed by the text 'August 09, 2016-03\_27\_25'. Below the preview is a button labeled 'Edit Format'.

There are two American and two suggested European formats, or you can customize your own.

## Volume Integrity Verification

As an additional helpful check, let myLTOdna ensure the card you're copying actually contains video files (not an accidental card that's already been copied and reformatted). This option relies upon known metadata formatting and is specific to camera cards.

**CAUTION! Do not enable this option for basic drive (non-card) copies.**

## Post-Job Preferences

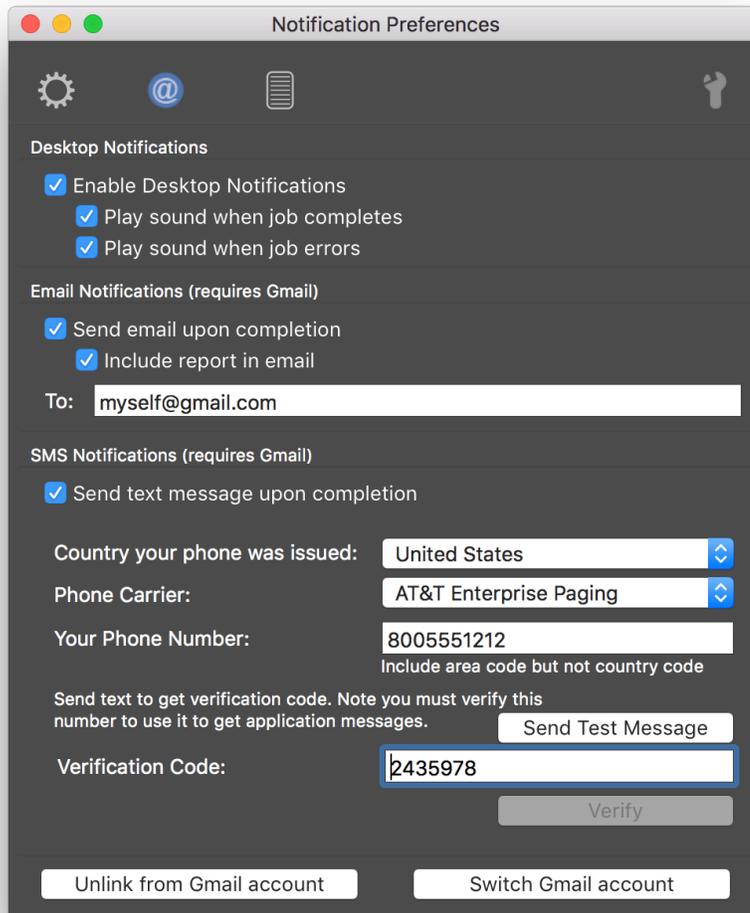
If you're copying from external drives, you can save time by letting the software automatically eject the source disk or card from the Desktop for you upon completion of the job leaving it ready to unplug from your computer.

This option does not eject the target drive or LTO tape.

## Notification Preferences

myLTODna features several automated notifications to inform you about progress. Select the [ @ ] icon from the toolbar to open frequently changed notification options.

Check the box to **'Enable Desktop Notifications'**. Then choose sound alerts for completion and errors.



**TIP:** With sound options off, enabling '**Desktop Notifications**' will present a pop up notice of activity even when the application is minimized.

myLTOdna can also send job status information via email or SMS text.

To set this up you must first link the application to a **Gmail** account. If you don't have one, create one—they're free. (This is a 'send only' application so it will have no effect upon your other email communications.)

Next, choose whether to send notifications by email, text, or both. With email you may also include reports.

Enter the '**TO**' email address. Note you may send the notifications to yourself if desired, or a different account. Send Test Mail to ensure it's working properly.

**TIP:** You may send to multiple recipients – just separate email addresses by a comma.

SMS Texting also uses Gmail (instead of your computer's Mail application). To send texts, choose the country and carrier and the receiving phone number. Send Verification Code, then enter the received code into the box and click Validate Code. **You MUST validate before using this option.**

If the job session fails or contains errors you'll receive notice of these as well as successful completion messages.

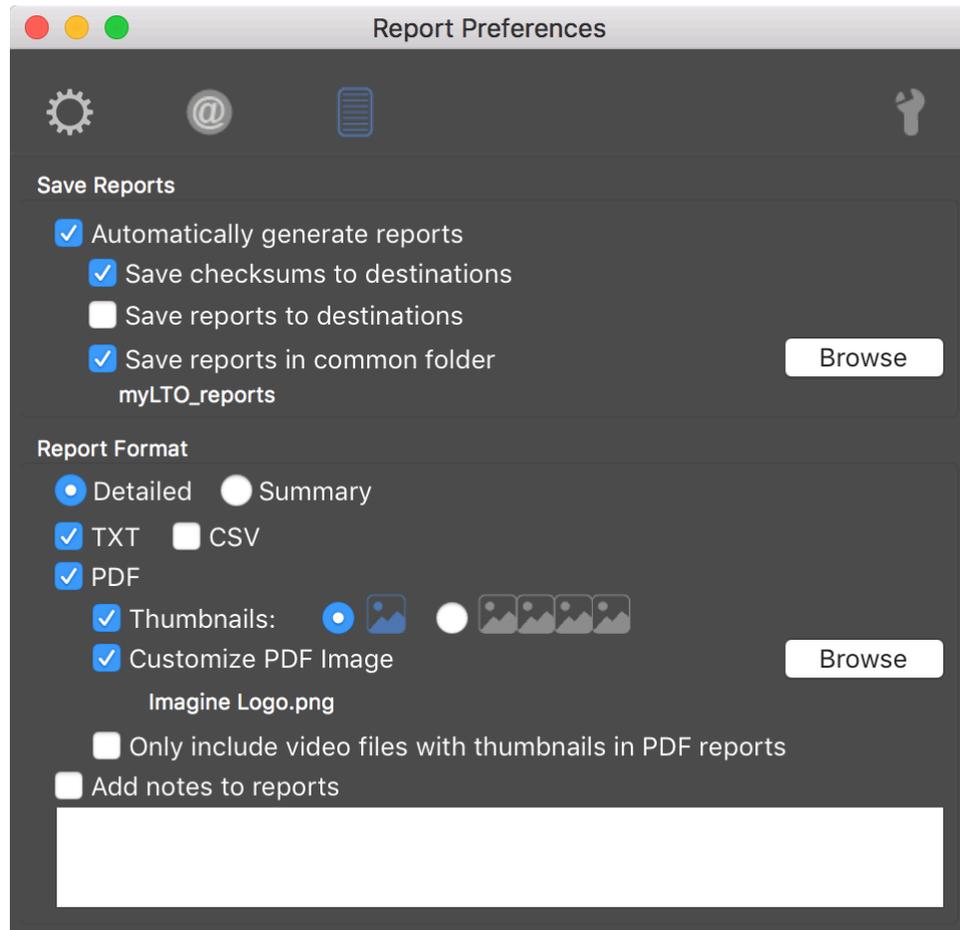
Texting does not allow attachments due to size constraints.

**CAUTION!** Turning the email/text option **ON** with improper settings may cause perceived processing delays when processing, or error messages.

**NOTE:** The SMS texting uses your carrier's incoming email server. Some cell carriers no longer offer this option (text messages to a phone number via email). In these cases simply use email only for remote notifications.

## Report Preferences

Reports can be an important bookkeeping and even used for simple offline search indices.



### Save Reports

Check the box to **'Automatically generate reports'** if you want a report saved without further prompting.



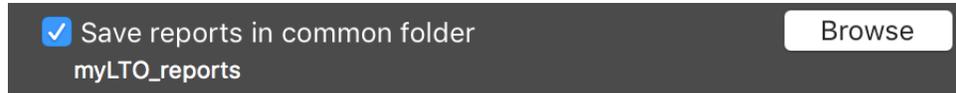
**TIP:** If not automatically saved, you may do so manually from the **Job History** list (see next section of this manual).

When checksum type verification is in use, you have the option to save a checksum file with the output-copied files. This simple text file is *NOT* a report. It's intended for verification purposes and contains relative file paths and names and the binary checksum values for each. With these values you can check the integrity of your files throughout your network with applications

such as **ShotSum™**. Checksum text files are named by the verification type and will be saved at the destination, outside of the folder containing copied files.

**NOTE:** When creating tapes for use with dnaLTFS, checksums are not used. Therefore in **dnaLTFS Write Mode** a checksum text file **cannot be made**.

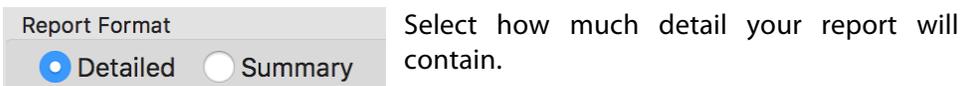
Reports are optional. They may be saved individually with the output files, or together with other reports in a '**Common Folder**', or exported later from the Jobs History list.



The common folder may be anywhere on your system, just browse to the folder location when choosing this option.

**TIP:** When copying files to the LTO, set the **Reports Common Folder** to a location **on your local computer** to create an index of the material on the tape.

## Report Format



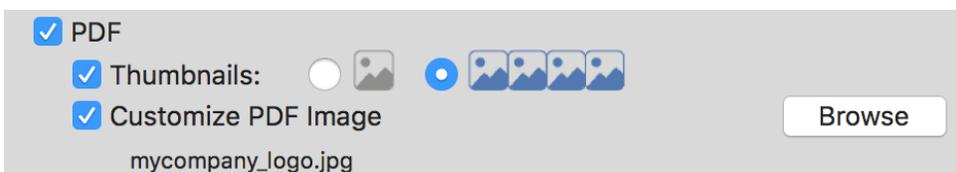
'**Detailed**' type reports contain a more thorough listing of each file's information including full path names, the name of the folders created, duration of each file's transfer, validation results, etc.

The '**Summary**' type report shows only aggregate information such as number of files copied, total size and session information.

myLTOdna offers several report formats, including **Text**, **CSV** and **PDF** types. **Text** is a simple human readable form. **CSV** (comma separate values) is a format that's readily compatible with spreadsheets.

**PDF** (portable document format) reports incorporate more graphical elements and organizes file information by type. myLTOdna is "video aware" and can extract file metadata for over 20 different camera/video formats including MOV, MXF, MTS, MPEG, AVI and more.

Video files may be further represented by thumbnails in this type report. Choose one, or four, sampled video frames to be included.



Check the box to '**Only include videos with thumbnails in PDF reports**' to not gather thumbs for all files. This option will detect and include thumbs for just video files (or one for a set of RAW files) and ignore other file types.

Additionally, with PDFs you may include your own company logo if desired.

### Video Files:

**PM Saves the day.m4v** Size: 71.8 MB



Framerate: 23.98  
TimeCode: Unknown  
Format: FFmpeg Utility  
Dimensions: 1280 x 720  
Codec: h264  
Duration: 00:02:27

XXHash-64 Checksum: 589f1f182fab1c38  
Destination 1: /Users/danmontgomery/Desktop/pdftest2/4/PM Saves the day.m4v  
Status: Verified XXHash-64 Checksum: 589f1f182fab1c38  
Size: 71.8 MB

**ShotPut Kid-HD 1080p.mov** Size: 94.6 MB



Framerate: 23.98  
TimeCode: 00:00:00:00  
Format: Apple  
Dimensions: 1920 x 1080  
Codec: H.264  
Duration: 00:00:36

XXHash-64 Checksum: 02f68a5adc33afa6  
Destination 1: /Users/danmontgomery/Desktop/pdftest2/4/ShotPut Kid-HD 1080p.mov  
Status: Verified XXHash-64 Checksum: 02f68a5adc33afa6  
Size: 94.6 MB

To replace the myLTOdna logo with yours, they must be PNG, JPG, TIF, GIF or BMP and 128x128 pixels. Larger files will be resized appropriately. Non-square files may be cropped or stretched to fit.

### Additional Notes

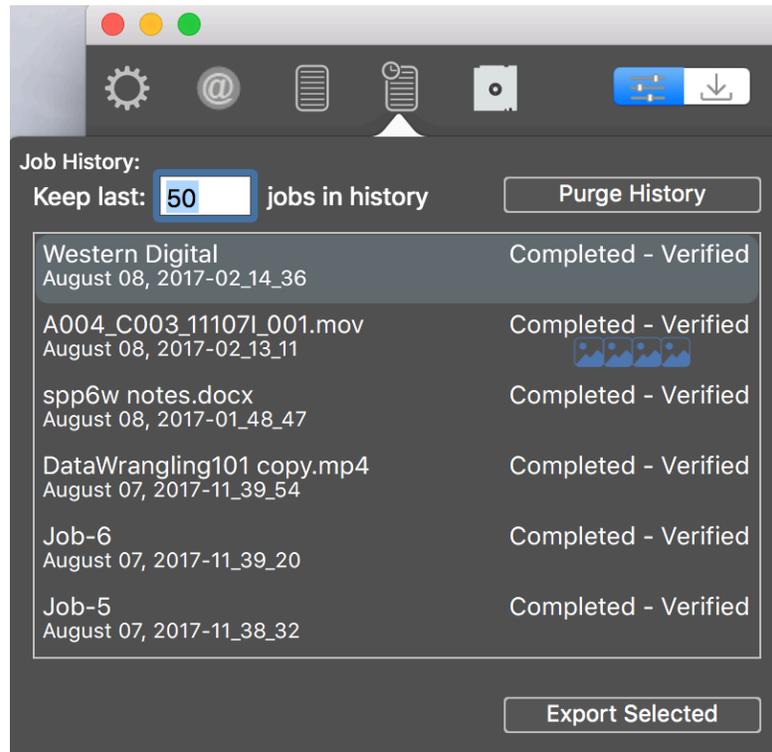
You may automatically '**Add notes to Report**'. For example, this might be contact information, project details, etc. The **NOTES** will appear in each report at the bottom of summary information.

Add notes to report:

Data Wrangler Co. Inc. 800-555-1212

## Job History

myLTOdna saves a history of your jobs within the **Application Support** area of your user profile on the computer. This information and any video thumbnails sampled are saved for use in reports.



myLTOdna keeps a pool of recent jobs so you can manually generate reports at a later time. Set the maximum number of saved jobs history to zero if you do not want to keep any locally.

**NOTE: 'Purge History'** has no bearing upon reports that have already been saved elsewhere. It simply reclaims used storage space on your computer's hard disk.

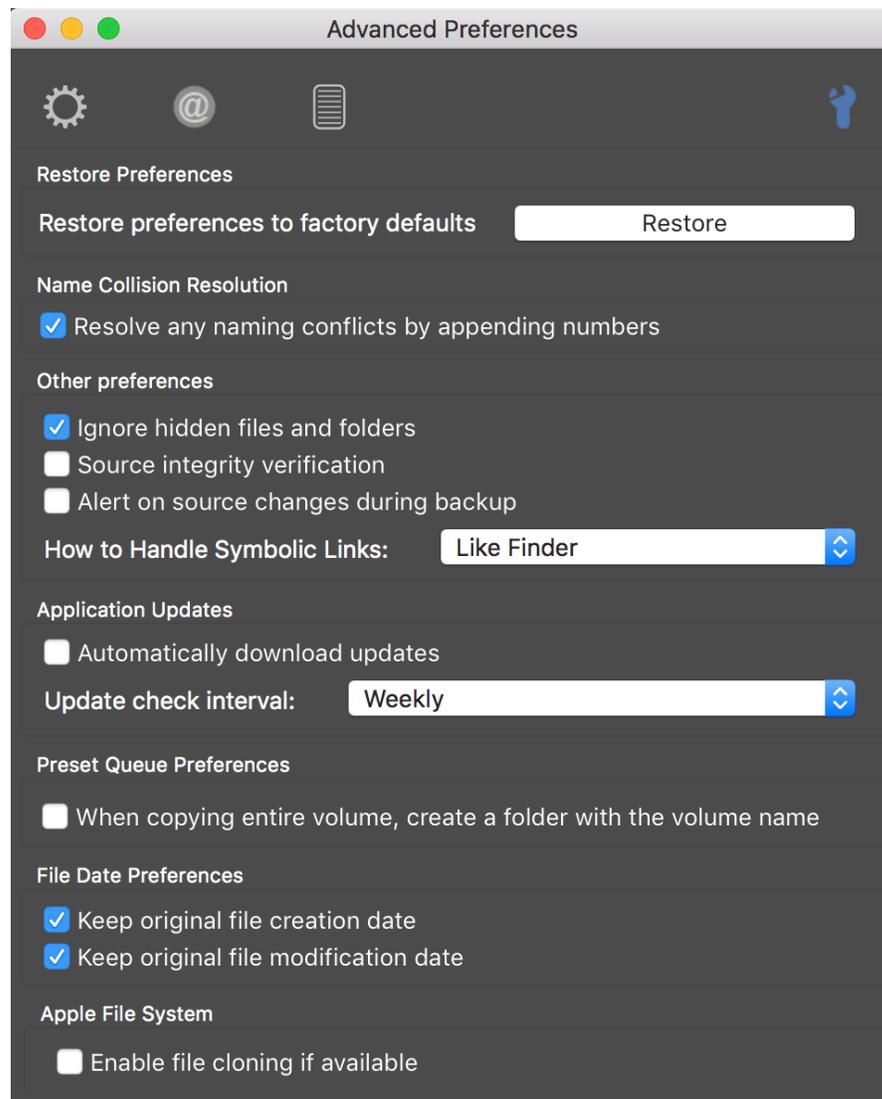
The history list includes the job identifier, date/time stamp, status and indication if video thumbnails were sampled during the process.

**NOTE:** PDFs can contain thumbnails only if the preference to collect them was selected during the job.

## Advanced Preferences

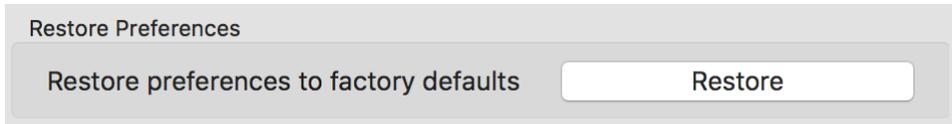


Click '**Advanced Preferences**' icon (upper right) to open the panel. The defaults set here generally should not be changed unless you have a specific reason for doing so.



## Restore Preferences

Click **'Restore'** to reset all **Preferences** back to default values.



**CAUTION!** **'Restore'** applies to all **'Preferences'** not just **Advanced** settings. Be sure to review **General**, **Notifications** and **Reports Preferences** after using the restore function.

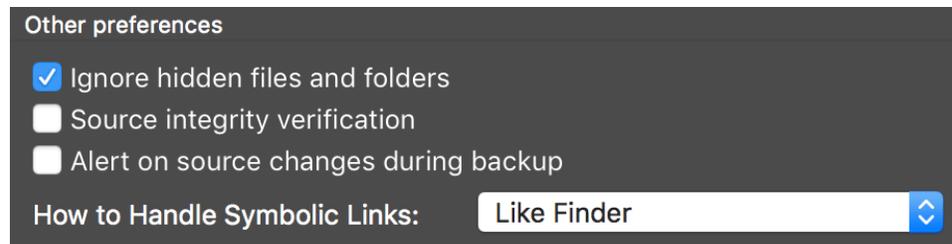
## Name Collision Resolution

If you're copying multiple items to the same disk destination (output location) naming conflicts potentially exist. You can instruct myLTOdna to **'Automatically resolve naming conflicts by appending numbers'**. This option retains the same named items and differentiates with an extension (e.g. -2, -3, -4).

With this option **OFF** you'll be warned whenever duplicates are found.

**TIP:** Avoid the potential for file/folder name collisions altogether by using unique folder naming schemes in **Preset** copy mode.

## Other Preferences



### Ignore Hidden Files and Folders

**'Ignore hidden files and folders'** omits hidden files and folders from processing. Many camera manufacturers and operating systems create hidden files to assist in file system regulation (e.g. **Spotlight** or **Trash** files). These files typically have no value and are not compatible with LTO tapes.

Often times attempting to copy hidden files, especially those containing file path information, can create errors and should not be included at all. Therefore, it is advised to **always ignore hidden files** unless you're very, very sure they are needed.

### Source Integrity Verification

**NOTE: This option requires a checksum verification to be enabled, which is not compatible with authoring tapes in dnaLTFS mode.**

Sometimes drives begin to fail, or the cabling to them is intermittent or faulty. This option instructs myLTOdna to read the source a second time, at the end of the backup session, to ensure what it was given to copy was correct.

Any hardware failures may be detected in this manner, because a matching checksum isn't likely if anything is intermittent or changing.

This option does add a small amount of additional time to read the source again but is a strong insurance against corrupt incoming files.

### Alert on Source Changes during Backup

If additional files are added to a source location after the job has been initiated they will not be included in your backup.

This option checks for any source mutations and alerts you at the end of the job if any new files are discovered, or are missing or altered at the source.

It simply reads the source locations at the end of the backup process to ascertain no changes have occurred.

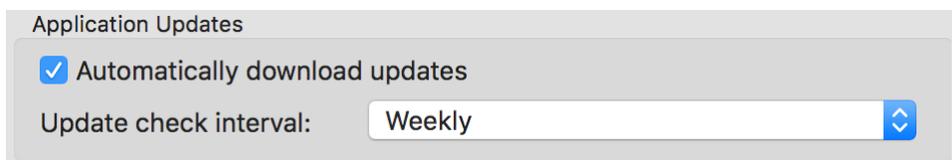
### Symbolic Link Handling

Symbolic Links are files containing path information such as references to other media files, NLE project files, etc. Often symbolic links are "absolute paths" which means when copied they're no longer valid (because they're not relative paths).

While it's unlikely your data will contain such files, you can instruct myLTOdna how to handle these type files should they be encountered: '**Like Finder**', '**Copy Original Item**', '**Keep Link to Source**', or '**Cancel Job**'.

### Application Updates

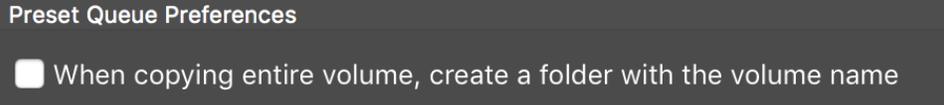
myLTOdna can automatically download updates for you, helping ensure you're always running the latest version. Check for updates **Hourly**, **Daily** or **Weekly**.



**TIP:** With this option **OFF**, manually **'Check for Updates'** from the **'Application menu'**, just above **'Quit'**.

## Preset Queue Preferences

Normally users want to ignore the volume name and just copy it's contents to the destination.

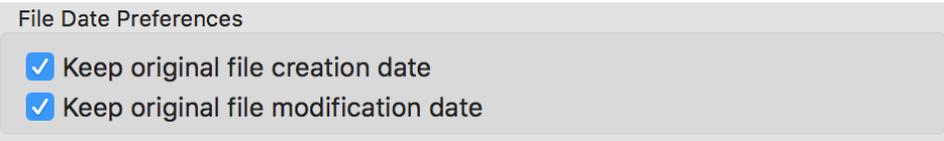


Should you wish to incorporate the volume name as part of the output nested folder structure, enable the preference **'When copying entire volume, create a folder with the volume name'**.

## File Date Preferences

Files copied from external drives or devices usually incorporate the date the file was copied to the output destination, rather than original file information.

You may choose to **'Keep original file creation date'** or **'Keep original file modification date'**. These options instruct myLTOdna to override the system copy dates with those gathered from the source files.



**NOTE: Files may be missing date information if they're copied from one computer platform to another, or if the originating camera or device did not apply date information.** Please be aware that if date information, LTFS and the operating system may apply a system creation date to all such files (e.g. December 31, 1969, etc.).

## Apple File System (AFS)

Apple operating systems now offer space saving file cloning. This option only applies to hard disks formatted with AFS, not LTO tapes, and OSX 10.12 and higher.

## Processing

myLTOdna has two different processing views, and two different color schemes.

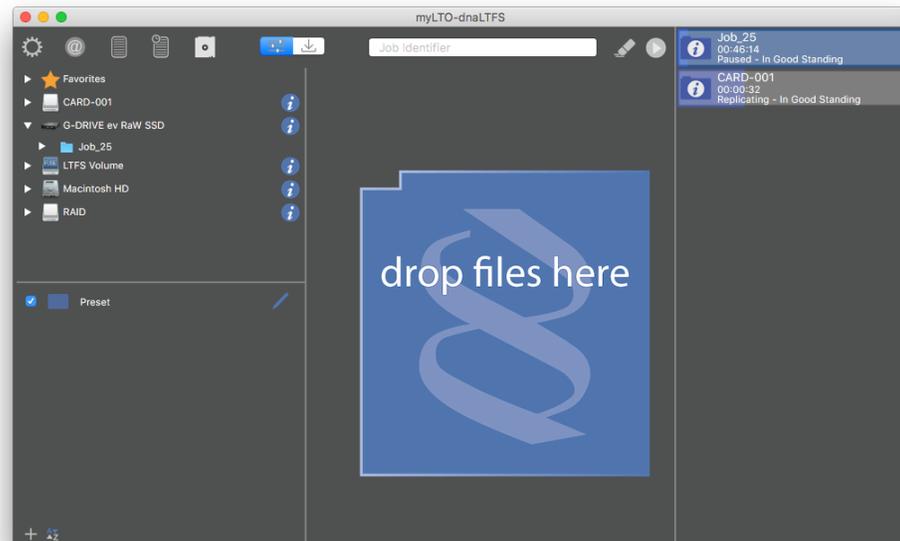


In **Preset mode**, simply drag-and-drop files to be copied into the queue area. myLTOdna will create and name folders for you on the LTO tape (or drive) and copy the files into them.



Alternatively, use **Destination mode** to drill down into folders and copy selected files and folders directly from one location to another without creating new output folders. This is a handy way to add files to folders already existing on a tape.

You may also change the **Color Motif** of the application to a **'Dark Motif'** under the **'Window'** menu, or use the short cut keys **SHIFT+D** for Dark (**SHIFT+L** for Light).



## Creating Presets

To use **Preset mode**, you'll need to set the locations where you'd like copies to be placed (e.g. the LTO tape) and how you'd like those folders named. In myLTodna these are organized by **Presets**.



Create your own presets and turn them **'ON'** or **'OFF'** by the check box to the left of the name.

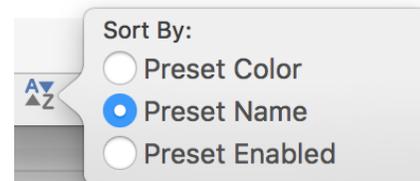
Click the **Plus [+]** button or **'Right-Click'** anywhere in the list the list to **'Add a Preset'**.

To **Delete** a **Preset**, **'Right-Click'** on it and choose **'Remove'**.

**TIP:** Use the **'Duplicate'** function to make a copy of the selected preset then just change settings in it to make it unique.

**Presets** may be **Imported** and **Exported** between computers and users for convenience and consistency.

**Presets** may be sorted by **'Name'**, **'Color'** and whether they're **Enabled**. Click the **'Sort'** button below the list.



## Edit Preset

To **Edit** an existing **Preset**, click the blue pencil button to the right of the name.

Preset Name  

Naming Scheme  

Convention  

Formatted Date  
July 31, 2017-04\_11\_53

Prefix Text

Suffix Text

Preview: July 31, 2017-04\_17\_42

LTO Destinations:  
 MagStor-7 | Serial #: 9C1542728F

Filesystem Destinations:  
 /Users/danmontgomery/Documents/PreRoll Test Archives

Input a user-defined name in the '**Preset Name**' box that helps you to differentiate between them. Click the color box to open a color wheel selection dialog.

## Naming Scheme

myLTOdna automatically creates folders for your copies. (There is no need to create folders manually ahead of time.) Choose between **'Basic Folder Naming'** and **'Advanced'** naming schemes.

With **Basic Naming**, click on the **'Convention'** to choose one parameter from common naming options.

Use **'Custom Text'**, **'Card Name'**, **'Auto Numbering'**, **'Today's Date'**, **'Date Drive Created'**, **'Date Drive Modified'** or **'Job Identifier'**. To type in a name select **'Custom Text'** and fill in the textbox.

**NOTE:** Invalid path characters are not allowed in the volume name (e.g. colon ":", "/", etc.).

Add a prefix and suffix as desired. A preview of the folder name is displayed, just above the LTO Destinations.

**TIP:** Click anywhere in the dialog to refresh the naming convention **'Preview'**. This will show you the name of the folder myLTOdna is going to create at the output destination(s). In the case of any time-stamped convention a placeholder of the current time/date may appear in the preview.

myLTOdna will not automatically overwrite existing folders so the naming—whether typed in or automatic—should be unique. If the same name is accidentally chosen myLTO will prompt for user action.

**'Today's Date'**, **'Date Drive Created'** and **'Date Drive Modified'** selections name the copy folder based on the date/time information. These can be useful ways to ensure unique labels.

## Advanced Folder Naming

The '**Advanced Folder Naming**' scheme allows you to combine naming conventions into a single output folder name. You may also designate sub-folders. Each using any of the naming convention types, prefixes and suffixes.

This is a powerful way to further organize media for complex projects.

Preset Name: myLTO Preset-Advanced

Naming Scheme: Advanced Folder Naming

Prefix	Convention	Starting Value	Minimum Digits	Reset	Default	Suffix	New Folder
LA-	Auto Numbering	3	1	Reset	Default		<input type="checkbox"/>
-	Date Drive Created	February 13, 2018-03_41_50		Edit			<input checked="" type="checkbox"/>

Preview: LA-3/-February 13, 2018-03\_41\_50

LTO Destinations:

- MagStor-7 | Serial #: 9C1542728F

Filesystem Destinations:

- /Volumes/RAID

Close

## Output Destinations

A **Preset** can copy to more than one location at the same time. For example, you may copy to one or more LTO Destinations as long as the tape drives are mounted and available. You may also copy to hard disks or RAID destinations as the same time.

Click the **Plus [+]** button below the list to **Add** a connected LTO drive, or browse to a root folder where you would like sub-folders to be created on a hard disk. Click the **Minus [-]** button to remove paths.

You may also add as many destinations as desired and just enable (checkmark) those to use in this session.

At least one valid output destination must be active before you will be allowed to begin the job using the preset.

**TIP:** Avoid long path names (those approaching 100 characters or more) as these may exceed the Operating System limits with the addition of the card's volume name, subfolders and file names within.

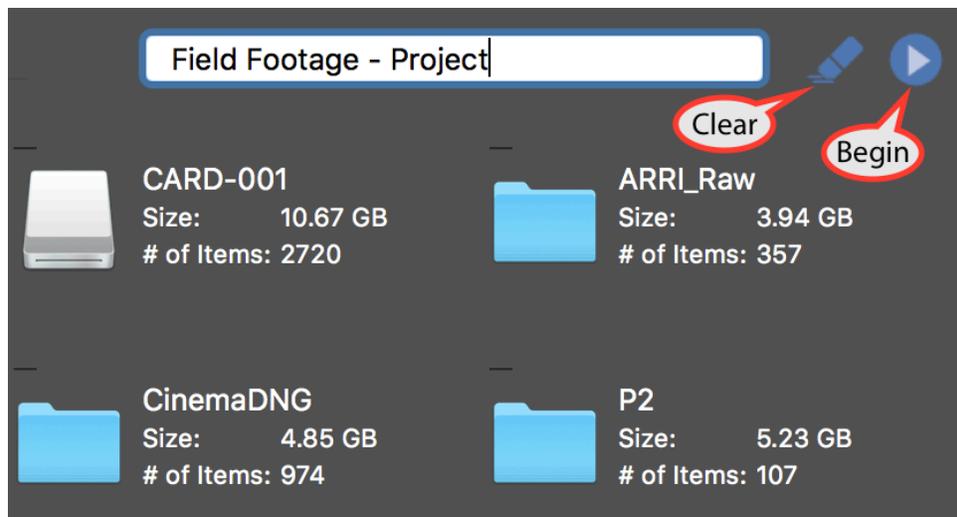
## Using Presets

Once you've enabled the desired Preset(s), just drag & drop the items you want to backup into the queue (center part of the screen).



**NOTE:** For easy identification, only items names are shown without their full file paths.

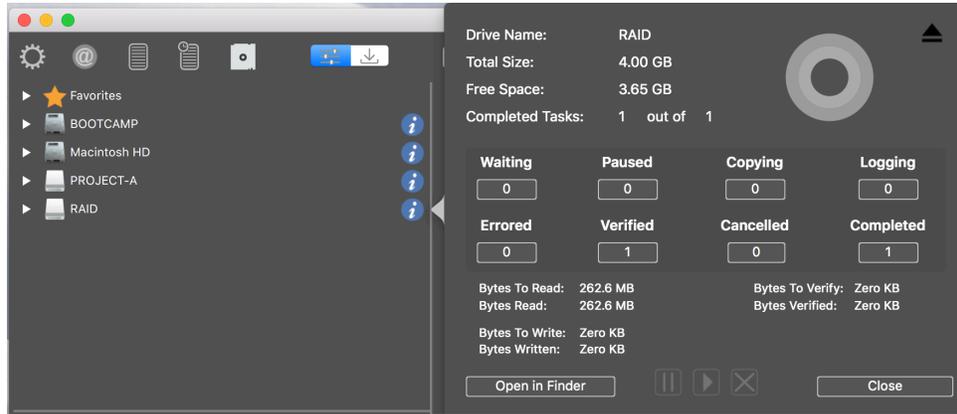
Type in the '**Job Identifier**' if desired, and then click the '**Begin**' button on the toolbar to start copying.



If you don't assign a Job Identifier, myLTOdna will default to the name of the item or volume. Or, if multiple items are included in a single job, they will be named generically 'Job - 1', 'Job -2', and so forth.

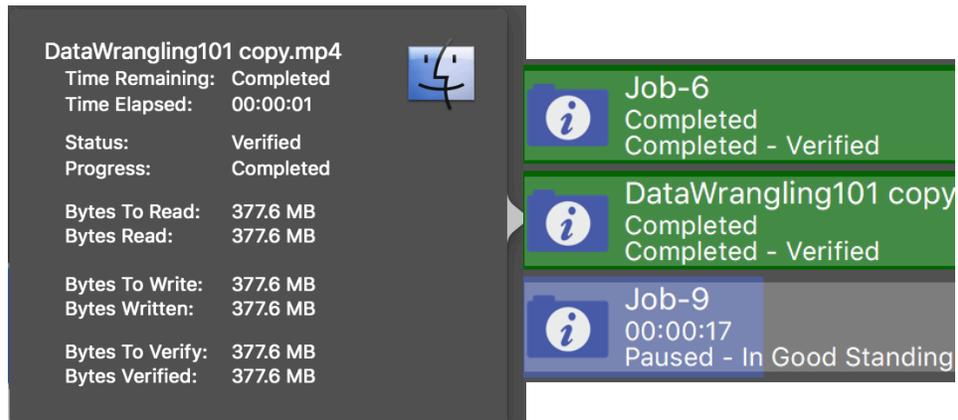


 myLTODna offers rich details about any mounted volume. You can **'Get Info'** about any pending tasks involving a disk by clicking the information button beside them.



**TIP:** Volumes not currently in use may be Ejected from this **Details** panel. This is a handy option for knowing when it's safe to release cards from a multi-card reader, etc.

Likewise, myLTODna offers detailed information about jobs in progress or completed. Progress status is indicated by both color and text, and displays the estimated time remaining (or elapsed, depending upon preference settings). Click the folder-info button in the status to open **Details**.



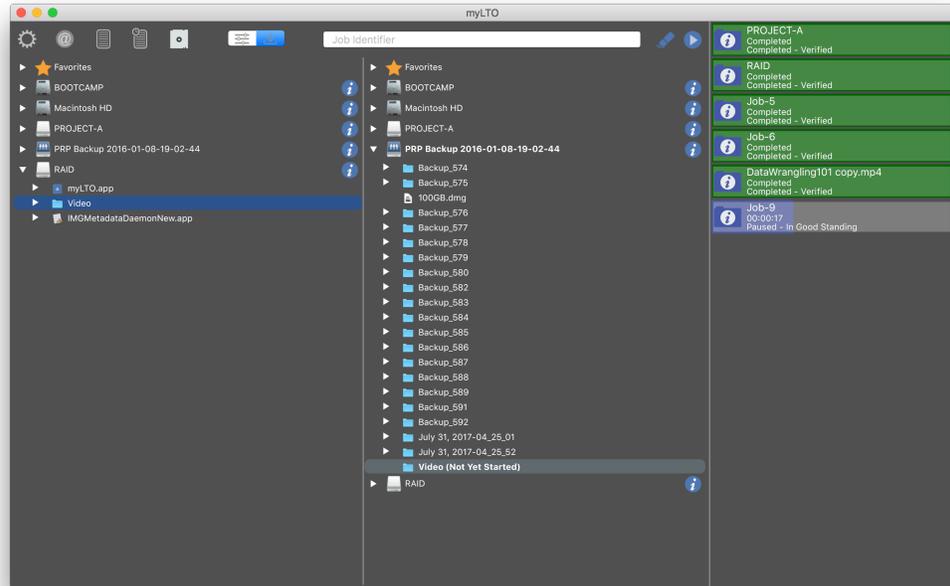
**'Right-Click'** on the progress bar for more options such as **'Cancel'**, **'Pause'**, **'Resume'** and **'Clear'**.

**'Right-Click'** on the status to **'Pause'** or **'Resume'**. If you choose to **'Pause'** a job, the copy process will be suspended at a logical point (when the current file being copied is finished). Jobs may **'Resume'** at a later time as long as the application has not been **'Quit'**.

## Destination Mode



Use **'Destination mode'** to drill down into folders and copy selected files or folders without creating new folders.



Simply drag items from the left **'Attached Media List'** to the right column. Dragged items will appear in **BOLD** as being **"queued"**, and if you collapse the volume in the right column it will show as bold as well to indicate there are files being added to it that haven't yet been processed.

You may queue multiple items before pressing **'Begin'** to complete the copy process.

Even though you're not creating new folders, file copies in this mode are treated as jobs too. You can type in a **'Job Identifier'** and save **Reports** and checksum files for any items copied in this manner.

**TIP: 'Right-Click'** on a queued item for more options (i.e. **Remove** from the queue, **Rename**, or go to the item or it's source in **Finder**).

**Favorites** are a handy quick reference to often-used locations. To add an item to **'Favorites'**, **'Right-Click'** on it in the left **'Attached Media List'** and choose **'Add to Favorites'**.

## Appendix A – Installation

This section details the initial required steps before using **myLTOdna** for Mac. Included in this section are instructions on installing the program, system requirements and registration. Skip this section if a registered copy of myLTOdna is already installed on your system.

### Installing the Software

Once you've downloaded the installer, double click to run it. Since some of the components are subject to independent EULAs (end user licenses), apart from Imagine Products' EULA, you'll be prompted to accept the terms of each. This installer will add:

- myLTOdna application
- FUSE
- ICU Framework

Place the myLTOdna application into the Applications Folder (or wherever you wish to install it).

You may be asked for the administration password for the computer.

Once the components are installed you'll be prompted to **allow restarting of the computer to fully activate the OSX modifications**.

**NOTE:** myLTOdna installer **DOES NOT include** the necessary LTFS driver for the LTO drive. These are installed by StorageDNA's LTFS, which is also required to use this application.

**NOTE:** Click the myLTOdna application inside the Applications Folder to run.

The application will periodically check for newer versions, but you can manually check at any time by clicking the **'Check for Updates'** link under the **'Application menu'** above **'Quit'**.

## System Requirements

The minimum Macintosh configuration is:

- Mac OS X 10.14, 10.13, 10.12\*
- 4 GB RAM
- 16 GB free disk space

**\*dnaLTFS may have different system requirements**

## Activation

myLTOdna activation requires web access to our server to register the software for use. When you purchased the application, a myLTOdna seat was added to your account on our website. Upon first launch, the software will attempt to connect to our server and prompt for you to activate.

**TIP:** Activation information is stored on the system level independent of user preferences, so multiple profiles on the same computer may access the application as long as you install under the **ADMIN** user profile for your computer.

**Just enter your account email and password for fast, easy activation.**

Larger organizations may wish to issue **single use keys**, which are subsets of the overall account wide serial. Either account wide or single use keys may be used to activate the application; but keep in mind a single use key 'consumes' one of the allotted seats of myLTOdna from the account wide key.

**NOTE:** If the application is activated using a single use key the account wide key may no longer work to activate myLTOdna until the single key is deactivated or revoked.

If you don't have an Internet connection on the target computer perform a manual activation. You may use a QR code reader app on your smart phone to quickly go to the appropriate page on our activation site to receive the manual activation code, or use the link provided to type in the computer ID.

**myLTO is a single user license.** If you're upgrading to a new computer, or need to transfer the software, be sure to '**Deactivate**' from the '**Application menu**', just above '**Quit**'.

**Once myLTOdna is installed and activated, connect the LTO drive(s) and follow the StorageDNA dnaLTFS installation and activation processes. dnaLTFS ties to the LTO equipment IDs.**

## **How to Register**

If you've purchased from our webstore, you're already registered in our system. If you purchased from a reseller or other method, the reseller or Imagine can transfer ownership to you. You must have an account on our website to run the software and receive customer support.

Upgrades are released from time to time and the only way you'll get these is to be registered.

We may also send you periodic electronic news. Generally we only notify of new products and trade shows, commentary and stories of interest from other users just like you. Let us know what you're up to (publishing your stories is an inexpensive way to network within the production community).

Follow us on Social Media for timely and helpful information.  
On Twitter: @imagineproducts

## Appendix B - Trouble Shooting

Throughout the program, reminders and error checks help to anticipate trouble spots in the program while preventing inadvertent data loss. If a message appears that is unclear, check the Help topics or refer to the appropriate section of this guide for further explanation.

### Frequently Asked Questions

#### I Can't Activate!

**Automatic myLTodna activation requires web access** to our server to register the software for use. When you purchased the application, a myLTodna seat was added to your account on our website. Upon first launch, the software will attempt to connect to our server and prompt for you to **enter your account wide key**.

Larger organizations may wish to issue single use keys, which are subsets of the overall account wide serial. Either account wide or single use keys will activate the application; but keep in mind a single use key 'consumes' one of the allotted seats of myLTodna from the account wide key.

**NOTE:** If the application is activated using a single use key the account wide key may no longer work to activate myLTodna until the single key is deactivated or revoked.

If you don't have an Internet connection on the target computer perform a manual activation. You may use a QR code reader app on your smart phone to quickly go to the appropriate page on our activation site to receive the manual activation code, or use the link provided to type in the computer ID.

**myLTodna is a single user license.** If you're upgrading to a new computer, or need to transfer the software, be sure to **'Deactivate'** from the **'Application menu'**, just above **'Quit'**.

**When transferring the software, always download the most recent version** of the software onto the new computer and activate it normally.

**The software asks for activation each time it's launched.** Check your Gatekeeper selections (Computer Settings/Security) to allow full installation of the software. You may need Administrative privileges to allow activation information to be saved for your profile.

### **Application "Freezes" or "Crashes"**

**Be sure to EJECT peripheral devices before unplugging them.** Never unplug devices without first stopping any copy in progress

**dnaLTFS requires a separate activation process and ties to the LTO equipment ID(s).** Once myLTOdna is installed and activated, connect the LTO drive(s) and follow the StorageDNA dnaLTFS installation and activation processes to update your system's LTFS to dnaLTFS.

### **Training the Tape with dnaLTFS**

**What if I forget to train the tape?** Mount the tape in **Train mode**. Training the tape creates a Random Access Database (RAD) file that is used by the dnaLTFS enabled applications to allow fast, sequential access to the tape's files.

**How does training the tape work?** When myLTOdna is placed in Train mode, its metadata detection routines determine which type video and audio files are present and need to be processed. Abbreviated transcodes of each file are executed in order to capture LTFS access commands for each and stored in the RAD file for later use. You **MUST** have the source files still attached to your computer while training is in process.

## Technical Support

This product was designed to be easy to use and we want you to feel at home as you navigate through it. This guide should address the most often asked questions along the way. However, should you need support the specialists at Imagine can provide answers quickly and in terminology that you can understand.

### Contacting Imagine Products

Visit Imagine's Web site to fill out a problem report <http://www.imagineproducts.com/> for fast, free service.

Updated news and patches will be available on the page, as well as Frequently Asked Questions under the Support tab on our site.

Alternatively you may email support @ imagineproducts.com

### Check for Updates

From the '**Application**' menu, select '**Check For Updates**' to manually check now for any updates, or to configure how often the application should check automatically whether a newer version of the software exists.

### Diagnostic Logs

Should you experience crashes or other system problems you may be asked to supply us with the '**Diagnostic**' logs. You'll find them here, under the '**Help**' menu.

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