



# **CuteDCPTools v2.0.0**

**A DCP Remastering station  
inside Adobe After Effects**

## **Users Manual**

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# 1. Introduction

Thank you for selecting CuteDCPTools as your Digital Cinema mastering station  
This guide will help you to re-master an existing DCP (Digital Cinema Package), using the CuteDCPTools DCP mastering plug-in for Adobe After Effects.

Here are some examples what you can do with CuteDCPTools:

- Import a DCP
- Import an encrypted DCP using DKDM or a Key Storage File
- Update the content titles by using the built in TitleHelper tool
- Adding new reels
- Split the DCP into reels
- Updating audio and video tracks without doing any encodings
- Create new compositions with language adaptations, subtitles, close captions or audio
- Import subtitles (SMPTE or Cinecanvas)
- Import Close Captions (SMPTE or Cinecanvas)
- Export subtitles (SMPTE or Cinecanvas)
- Export Close Captions (SMPTE or Cinecanvas)
- Imported subtitles or close captions can be edited and re-timed.
- Sign the DCP
- Encrypt the DCP
- Unencrypt a DCP
- RePackage and export the modified DCP.
- Rewrap wav files to an mxf file from the timeline

The Demo version is fully functional and has a 2 x 15 day trial period.

## System requirements

### **Operating system:**

Windows 7, Windows 8 and Windows 10

MacOSX: 10.6 or later

### **Software:**

Adobe After Effects CS6 or later

## 2. What is a DCP?

DCP is the acronym for “digital cinema package” and you can say that is a digital film print  
A DCP is not a file format and it is not a single file, instead it is a collection of files and these files are xml-files and mxf-files. The xml files describes how the DCP should be ingested and also how the image, audio and subtitle files should be played.

The mxf files is the moving content, i.e. image, audio, timed text, subtitles

A DCP can play image and audio files, like music songs in a playlist.

In a DCP that is called reels and is a part of a composition.

To make it even more complex, a DCP can contain one or many composition(s) and each composition can contain one or many reels.

One or many composition playlist(s) from the DCP could be ingested into the cinema server.

### 3. Installation of CuteDCPTools

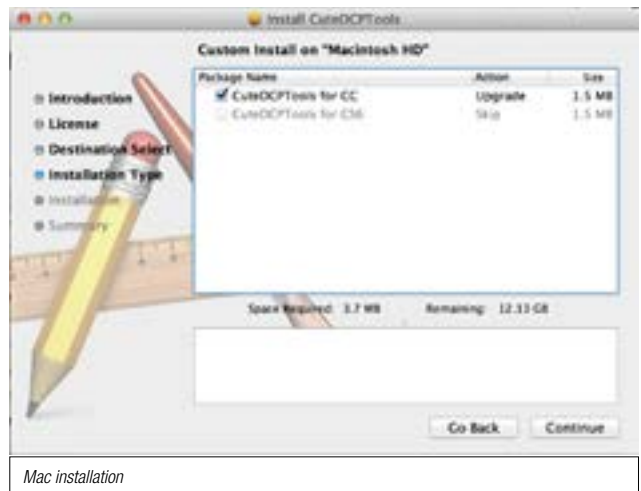
It will only take a few minutes to install CuteDCPTools.

You can download the latest version of CuteDCPTools from the Fandev website: <http://www.fandev.com>

**Windows:** If you have already installed a previous version, go to the control panel and uninstall the older version.

Double-click on the executable setup file downloaded from the Fandev website and follow the on-screen instructions.

**Mac:** Double-click on the downloaded installer, the installer will guide you through the installation.



CuteDCPTools consists of two plug-ins: CuteDCPTools.aex and MXF\_DCP.prm / MXF\_DCP.bundle.

**CuteDCPTools.aex:** This is the After Effects main plug-in for CuteDCPTools

**MXF\_DCP.prm/.bundle:** This is a mxf file reader format plug-in that allows users to view and hear the content of the image and audio track files of the DCP.

#### Where are the plug-ins installed?

##### Windows:

<b>CS6:</b>	C:\Program Files\Adobe\Adobe After Effects CS6\Plug-ins	- CuteDCPTools.aex
	C:\Program Files\Adobe\Common\Plug-ins\CS6\MediaCore	- MXF_DCP.prm
<b>CC:</b>	C:\Program Files\Adobe\Common\Plug-ins\7.0\MediaCore	- both
<b>CC2014:</b>	C:\Program Files\Adobe\Common\Plug-ins\7.0\MediaCore	- both
<b>CC2015:</b>	C:\Program Files\Adobe\Common\Plug-ins\7.0\MediaCore	- both
<b>CC2017:</b>	C:\Program Files\Adobe\Common\Plug-ins\7.0\MediaCore	- both

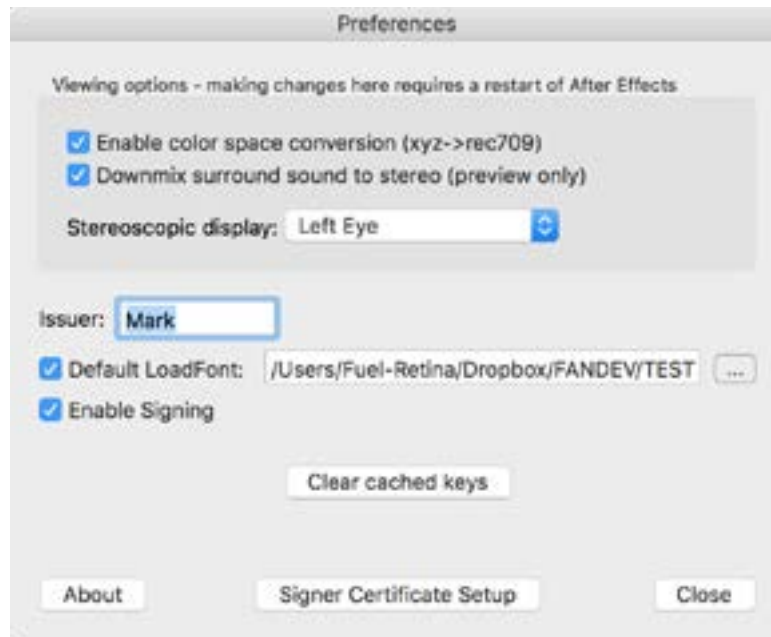
##### Mac:

<b>CS6:</b>	/Applications/Adobe After Effects CS6/Plug-ins	- CuteDCPTools.aex
	/Library/Application Support/Adobe/Common/Plug-ins/CS6/MediaCore	- MXF_DCP.bundle
<b>CC:</b>	/Library/Application Support/Adobe/Common/Plug-ins/7.0/MediaCore	- both
<b>CC2014:</b>	/Library/Application Support/Adobe/Common/Plug-ins/7.0/MediaCore	- both
<b>CC2015:</b>	/Library/Application Support/Adobe/Common/Plug-ins/7.0/MediaCore	- both
<b>CC2017:</b>	/Library/Application Support/Adobe/Common/Plug-ins/7.0/MediaCore	- both

# 4. Preferences

## Setting up your preferences and authorize CuteDCPTools

1. Launch After Effects
2. Open the CuteDCP Preferences:  
Win: Goto menu Edit->Preferences->CuteDCPTools Preferences  
Mac: Goto menu After Effects->Preferences->CuteDCPTools Preferences



**Viewing options:** This section is used for how the imported track files in the DCP are going to be viewed. All changes made in this section requires a restart of After Effects.

**Enable color space conversion:** Performs a reverse color space conversion from x'y'z' to rec709.

**Downmix surround sound to stereo:** After Effects only supports stereo on the timeline. If your DCP has surround sound you have the option to downmix all surround tracks to a stereo track.

Please note that this is only for previewing the audio, if the audio is re-wrapped using one of the tools in CuteDCPTools, the number of audio tracks is untouched.

**Stereoscopic display:** Select how you want to view your stereoscopic image track file.

**Issuer:** Sets the issuer tag of the DCP, visible in cpl, pkl and ASSETMAP xml-files

**Default LoadFont:** If you are using subtitles or close captions and has a standard font that you are using over and over again, you can select it here.

**Enable Signing:** When your Signer Certificates are properly setup (see below), you have the option to sign your DCP. Signing a DCP grants that no one has altered the DCP in any way.

When creating an encrypted DCP this is a required option.

**Clear cached keys:** Removes all keys used for decryption.

**About button:** Opens up the About and Registration dialog.

**Signer Certificate Setup:** Opens the dialog for adding or creating certificates.

## The About/Registration dialog



In the About dialog, you can view what version of CuteDCPTools you are using. You can also unlock your purchased copy CuteDCPTools here. Just add your name and the serial number you received when the purchase was completed.

## Signer Certificate Setup dialog



In the “Signer Certificate Setup” dialog, add your existing certificates or create a new set of certificates to be used for signing and encrypting your DCP. When using CuteDCPTools in **demo** mode, a set of time limited demo certificates is created.

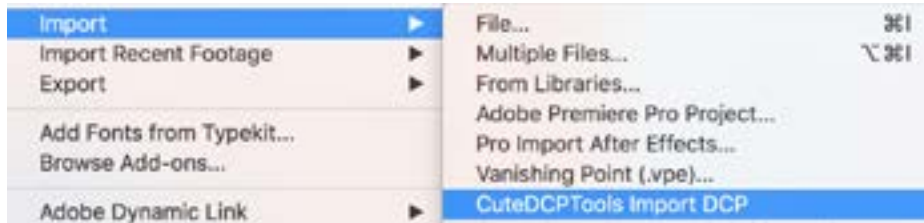
**Create Certificates:** Creates a new set of certificates.

**Export Public Certificate:** Exports the public certificate from your set of certificates. This exported certificate could be used to create a DKDM (Distribution KDM) targeting your CuteDCPTools mastering station. In other words, it would allow you to open an encrypted DCP created by someone else.

# 5. ReMastering

## - Example 1: Import a DCP and add subtitles -

1. Launch After Effects
2. Select the DCP you would like to import. From the menu select File->Import->CuteDCPTools Import DCP.



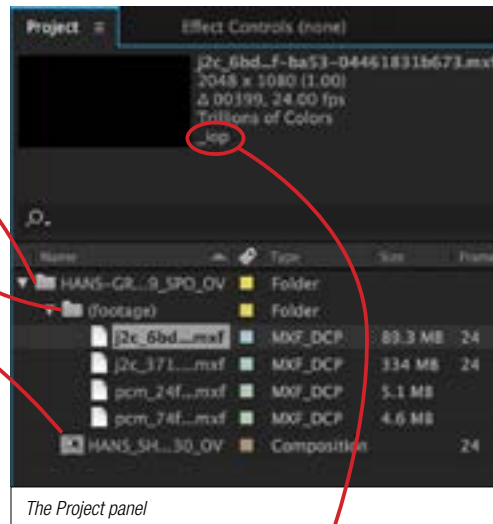
3. When the import is completed, you will see the following in the project panel.

This is the root folder of the DCP.

All assets that belongs to the DCP are collected here. e.g. video and audio files.

This is the composition.

A DCP may have several compositions and each composition could be a language adaptations with different subtitles and/or audio tracks. Make sure that the composition is properly named and that it is following the naming convention. <http://digitalcinemanamingconvention.com>



This subtype tells us what packing method that was used for packing video and audio files.

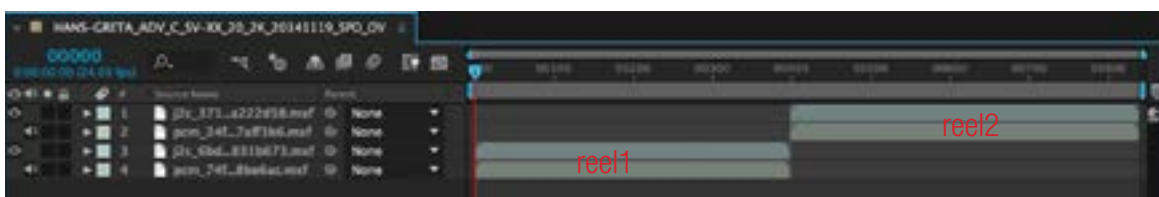
Note: Only visible on video tack files.

**\_iop:** Interop packing was used.

**iopE:** Interop packing was used, encrypted file.

**smpT:** SMPTE packing was used.

**smpE:** SMPTE packing was used, encrypted file.

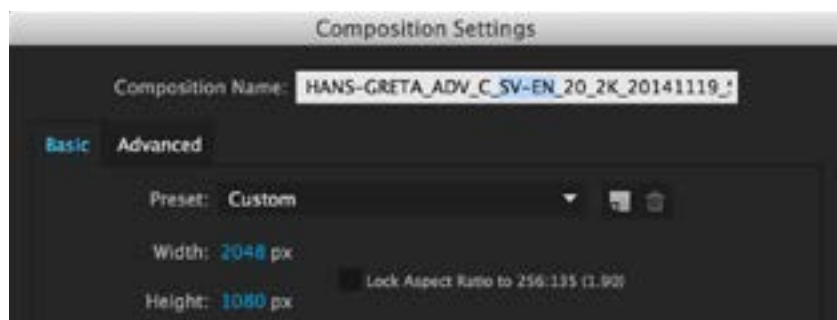


The Imported DCP in the timeline, this imported DCP has two reels.



## - Adding subtitles to the imported DCP -

- In the project panel, duplicate your composition. Select composition then goto menu Edit->Duplicate.  
The duplicated composition is going to contain all your subtitles spots.
- Select the duplicated composition and go to menu Composition->Composition Settings.  
The name of my duplicated composition is:  
HANS-GRETA\_ADV\_C\_SV-XX\_20\_2K\_20141119\_SPO\_OV 2  
We will change the following:  
Remove the number 2 at the end of the title, the number 2 tells us that it is a duplicate.  
Change SV-XX to SV-EN.  
SV means that we have swedish audio and XX that no subtitles is present.  
So accordingly SV-EN means, swedish audio and english subtitles.  
Your title should now look like this:  
HANS-GRETA\_ADV\_C\_SV-EN\_20\_2K\_20141119\_SPO\_OV  
Press OK.

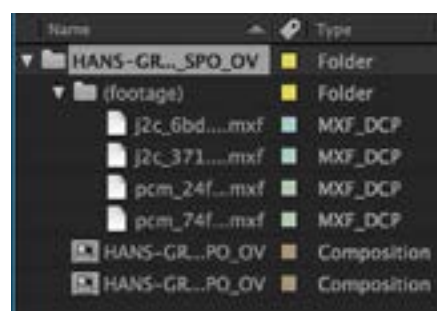


- It is now time to add subtitles to your composition and we are going to use one of the tools in the CuteDCPTools toolkit. Select the newly re-named composition, then go to menu "File->Import->Cute DCP Import Subtitles to Comp". You will be prompted to browse and select a subtitle file.  
CuteDCPTools supports Cinecanvas or SMPTE 428-7 subtitle files.
- When the subtitle import progress is finished text layers are added to your composition.

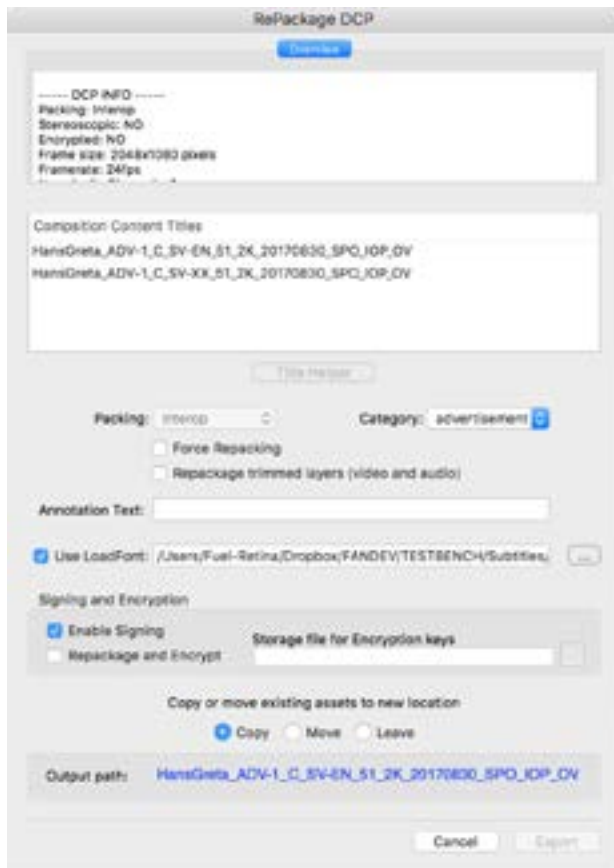


- When all subtitles are in place, it is time to re-package the DCP and export it all out again.

- In the Project panel, select the root folder.  
Go to menu "Export->CuteDCPTools RePackage DCP"  
The RePackage DCP dialog is now open.



## - RePackage the DCP -



**Overview:** This window shows information about the imported DCP and all the changes that has been made to it, like adding subtitles.

**Composition Content Titles:** Shows all available compositions in the DCP. You can edit the titles directly in this view, just simply double click on the content title you want to edit. It is these titles that will appear on the digital cinema server.

**Title Helper:** You need to select the content title in the view above that you want to edit, when selected the Title Helper button is enabled and pressing this button brings up the Title Helper Dialog. See page 12.

**Packing Format:** There are currently two digital cinema standards in the field – the older Interop format is gradually being replaced by the more recent DCI SMPTE standard.

Interop only supports frame rates of 24fps and 48 fps for 3D content.

The newer SMPTE format supports a wide range of frame rates: 24, 25, 30, 48, 50 and 60 fps.

**Category:** Select the category of your DCP. This category will be visible in the cinema server.

Note: The category is automatically reflecting the category setting in the Title Helper.

**Force Repacking:** When enabled, you have the option to change packaging format, e.g. SMPTE to Interop or vice versa. Note that this option is only available at 24fps.

**Repackage trimmed layers:** When enabled, all trimmed layers are re-packaged in to a new mxf container. This is a nice feature if you want to make an excerpt from a DCP and only use the selected frames to the new DCP.

**Annotation text:** If you have an annotation text describing the DCP, you can type it here. (optional)

**Use LoadFont:** When enabled, a LoadFont tag is added to the subtitle file with the selected font. This is for subtitles only.

**Signing and Encryption** section:

**Enable Signing:** When selected, the DCP is signed using your certificates. If no certificates has been added, the signing and encryption section is disabled

**Repackage and Encrypt:** If selected, the full DCP will be encrypted.

**Storage file for Encryption Keys:** The key storage file is the file that holds all keys used for encryption. It is important to store this file in a safe place, if lost, you will not be able to open your encrypted file again. Note, this path is automatically filled out when setting the output path for the DCP and the key storage file will be saved next to the DCP.

**Copy, move or leave assets:** You have these options for the video and audio files from the original DCP. The Move option, moves video and audio files to the new destination. When using the “Move” option, please note that the linkage to the imported video and audio files in After Effects will be broken and After Effects will popup a warning message.

The copy option, copies video and audio files to the new destination. The leave option, leaves video and audio files at the original DCP. This option is useful when making a VF (version file) of the DCP.

Note that if your assets are being re-wrapped, you can see that in the overview window, none of these actions is performed.

**Output path:** The destination path for the re-mastered DCP.

10. Select output path and make other optional changes, like setting an annotation text or changing the category. The Export is enabled when an output path is present. Press Export and the re-mastering process starts.

## - Title Helper -

Title Helper is a tool for creating properly formatted Content Titles, it will help you comply with the Digital Cinema Naming Convention.

For those not familiar with the Naming Convention, it has two primary objectives:

- 1) to make as much information visible as possible, and
- 2) to display the information in a specific order, in assigned fields, so theatres will know where to look for specific information. Most of the information in these fields is abbreviated, including the movie title if necessary, and most of the abbreviations are standardized.

For more information about Digital Cinema Naming Convention, click here:

<http://www.digitalcinemanamingconvention.com/>

Title Helper - Digital Cinema Naming Convention

REPTILE\_FTR-2\_F\_EN-XX\_51\_2K\_20150817\_SPO\_IOP\_OV

Film Title:

Force uppercase title

Content Type:

Content Type Version No:

Projector Aspect Ratio:

Language Audio:

Language Subtitle:

Territory Code:

Rating Code:

Audio Type:

Resolution:

Studio:

Date:

Facility:

Standard:

Package Type:

When checked, TitleHelper remembers this selection until you uncheck it or reset the panel.

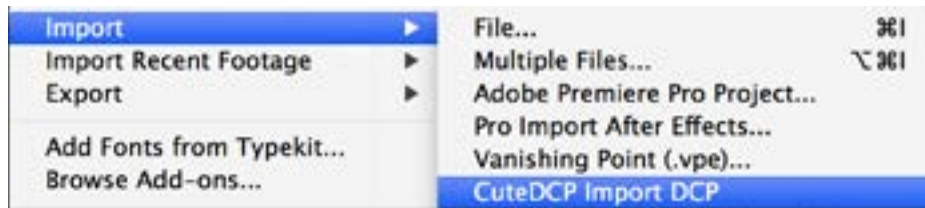
## - Example 2: Rename a DCP -

If you have a DCP that is poorly named and doesn't comply to the digital cinema naming convention, you can easily rename the content titles with CuteDCPTools. The Title Helper tool helps you to make a nicely formatted content title for the DCP.

A well formatted content title has a lot more information than just the title of the movie, and this extra information is located in specified field and in a specific order

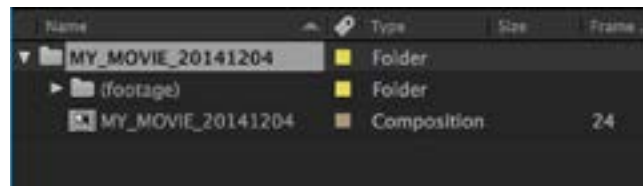
1. Import a DCP as shown in the previous chapter.

Goto to menu File->Import->CuteDCPTools Import DCP and select the DCP to be imported.



2. Here is the DCP that needs to be re-named.

Select the root folder as shown in the picture below.



3. Go to menu Export->CuteDCPTools RePackage DCP



4. Select the composition to be re-named, click on the "Title Helper" button.

In the "Title Helper" tool, use as many fields as possible to give the composition a well formatted title. The more info you can add to the content title the better it is.

Please refer to <http://digitalcinemanamingconvention.com> for more info.

Click OK to set the name.

5. Select output path and make other optional changes, like setting an annotation text or changing the category. The Export is enabled when an output path is present.

Press Export and the re-mastering process starts.

# 6. Adding a reel to the DCP

## - Example 3 -

Sometimes it is necessary to make modifications to the DCP, like adding a leading logo for a film festival or adding a distributor logo at the end of the DCP.

Instead of re-encoding the whole film from scratch again you can add a leading or trailing reel or both to your existing DCP.

You can think of reels like a playlist, first it plays reel 1 then reel 2.....etc.

In this example we are going to add a reel, showing the festival logo, at the beginning of the DCP.

1. Import a DCP as shown in the previous chapter.

Goto to menu File->Import->CuteDCPTools Import DCP and select the DCP to be imported.



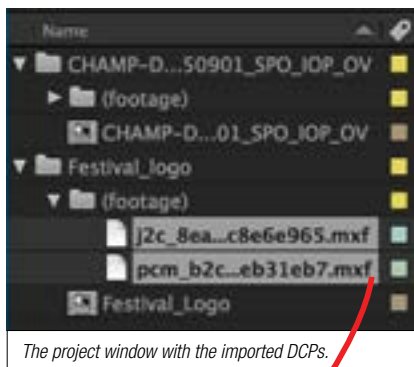
The Imported DCP in the timeline, this imported DCP has only one reel.

2. Now, lets create a 5 sec DCP for the festival logo. Just fading up and then fading down.

Make sure that frame rate, frame size and packaging format matches the main DCP.

Then use your favorite DCP export application to create this small DCP.

3. Import the newly exported 'Festival logo' DCP into After Effects.



The project window with the imported DCPs.

4. Select the video and audio file from the festival logo DCP in the project panel.

They are named here with j2c...mxf / pcm...mxf.

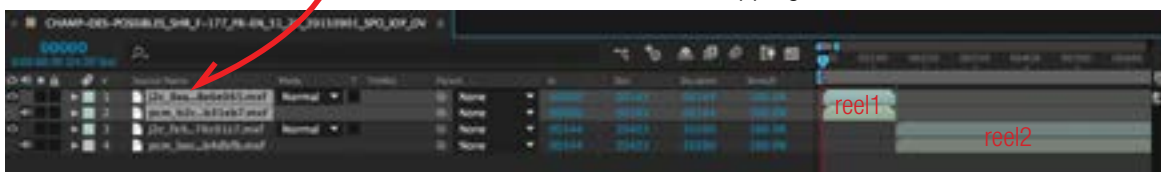
Drag them into the timeline for your main DCP.

5. Now you have two reels on the timeline:

reel1 – festival logo,

reel – the main DCP.

You also need to slip reel2 to the out point of reel 1 so that the reels not are overlapping.



The final result.

6. It is time to re-package and export the modified DCP.

Select the root folder of the main DCP in the project window.

Go to File->Export->CuteDCPTools RePackage. In the RePackage dialog make any changes needed.

(Check other examples of what changes you can make)

# 7. Splitting a DCP in to reels

## - Example 4 -

Why split a DCP into reels?

Well, there could be several reasons for that:

1. Easier to update the DCP.
2. Loads faster during ingest in to the cinema server.
3. Some cinema projectors needs subtitles to be split into reels because the lack of memory to store the full subtitle track; you could experience intermittent missing subtitles spots.

The length of a reel in the old photochemical world was approx. 20 min, for the new digital DCP world the length are often the same.

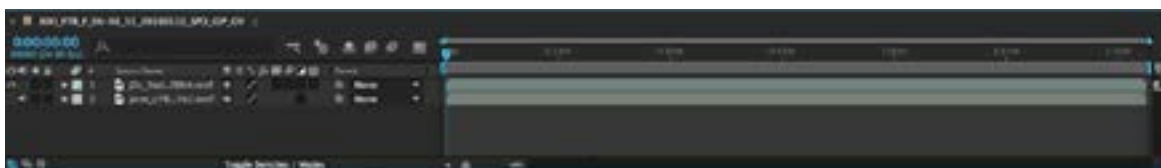
However, splitting a digital feature into reels makes a lot of sense in terms of handling files and making changes.

Where to split and not to split.

- Always split between scenes.
- Avoid splitting within a musical cue or a dialog
- If possible, no significant sound at the start of each new reel
- Each reel should be approx. 20min

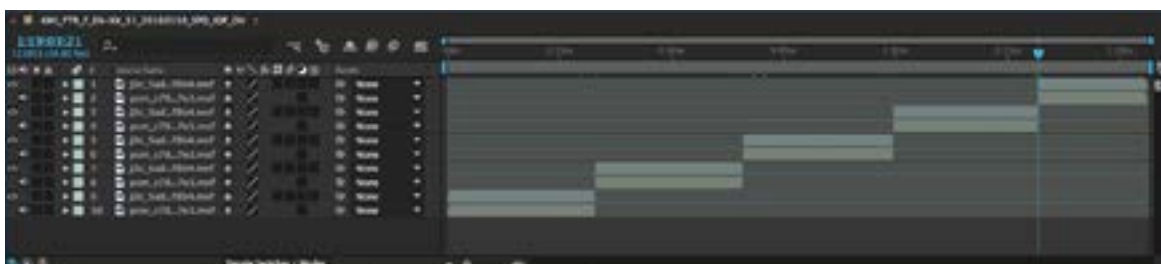
1. Import a DCP that you want to split into reels.

Goto to menu File->Import->CuteDCPTools Import DCP and select the DCP to be imported.



*The Imported DCP in the timeline, this imported DCP has two reels.*

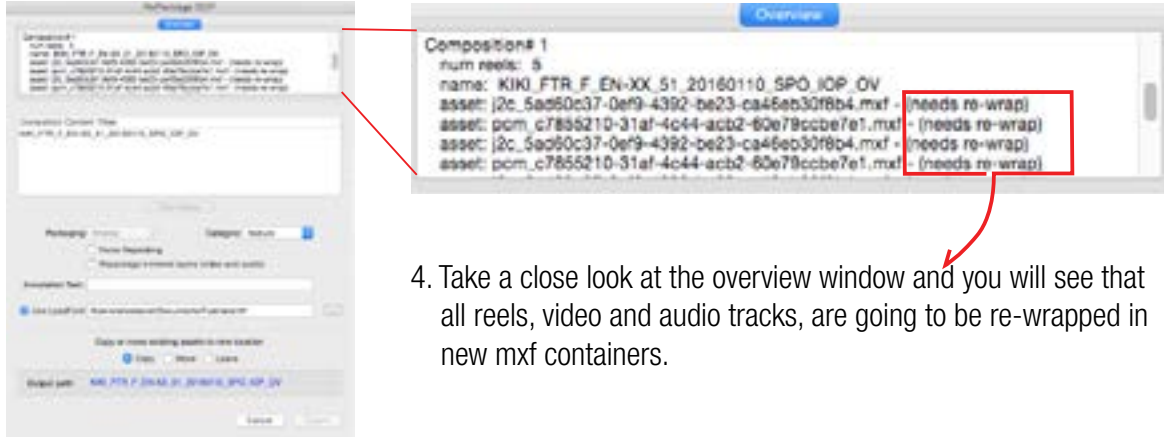
2. Find appropriate split points as discussed above and split the video and audio layers into 20 min chunks. Use the hot key cmd+Shift+D (Mac) or ctrl+Shift+D (Win) to split the layer or go to menu Edit->Split Layer



*The final result splitting the feature in to 5 reels.*

Example 4, continued.

3. Now it is time to re-package and export the splitted DCP.  
Select the root folder of the main DCP in the project window.  
Go to File->Export->CuteDCPTools RePackage.



4. Take a close look at the overview window and you will see that all reels, video and audio tracks, are going to be re-wrapped in new mxr containers.

5. In the RePackage dialog make any changes needed.  
(Check other examples of what changes you can make)
6. Press Export button, CuteDCPTools now copies all frames from the original mxr-container to the new mxr-containers, representing the reels.



# 8. Updating audio files

## - Example 5 -

In this example we are updating the audio track file using wave files.

From version 2.0, CuteDCPTools offers a simple way to update the audio track by re-wrapping the mxf container from wave files.

After Effects only supports stereo audio from the timeline but with CuteDCPTools it is now possible to map the files from the timeline into a new audio track files without doing any processing.

CuteDCPTools reads the audio samples directly from the wave files.

We are now going to replace a 5.1 audio mix with an updated audio mix.

1. Import the DCP that needs to be updated
2. Open the composition

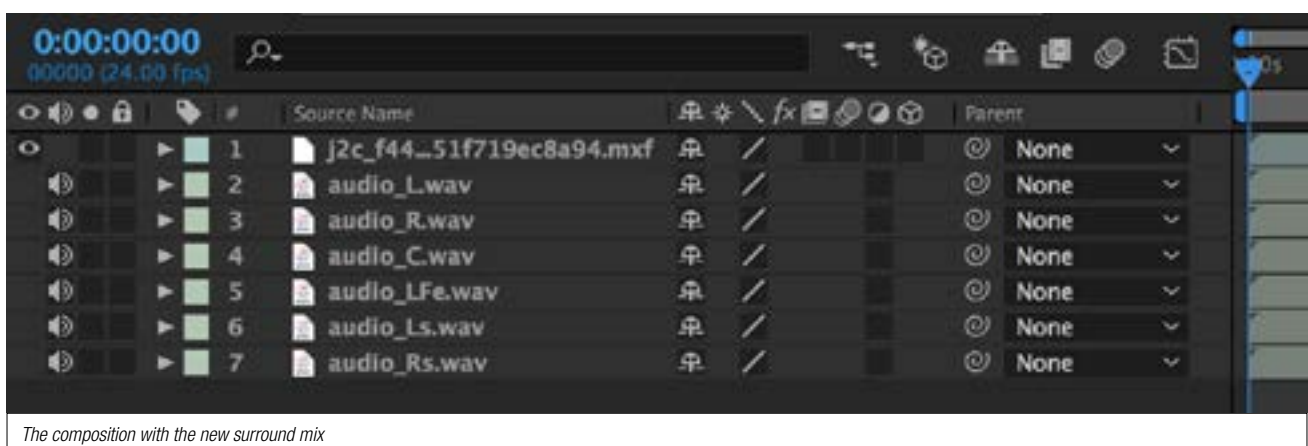


3. Import the 5.1 surround mix.

The audio files must meet the following specification.

- Wave file (PCM)
- Mono files
- 48 kHz
- 24bit

4. Drag the audio files to the composition, for a 5.1 surround mix the channel order has to be the following: Left - Right - Center - Sub - Left Surround - Right Surround
5. Don't forget to delete the old audio track file.



6. Select the root folder of the main DCP in the project window. Go to File->Export->CuteDCPTools RePackage. In the overview window you can see that the wave files needs to be wrapped.
7. Name the DCP and press Export.

# 9. Update end credits in a DCP

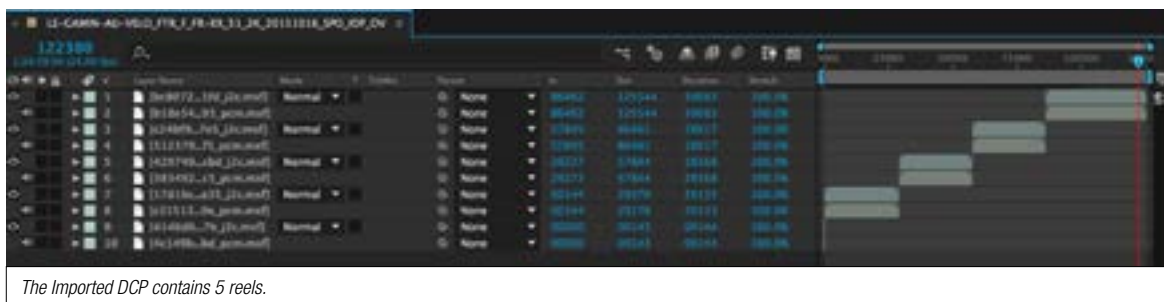
## - Example 6 -

In almost every film project late changes is something to count on, this also happens when the film is mastered and the DCP has been encoded.

In this example you can deal with some changes without re-encode the complete DCP, the most common changes are updating end credits where typos, forgotten names and logos are the reason for that. In this example we are going to update the end credits on a DCP

1. Import the DCP that we are going to update.

Goto to menu File->Import->CuteDCPTools Import DCP and select the DCP to be imported.

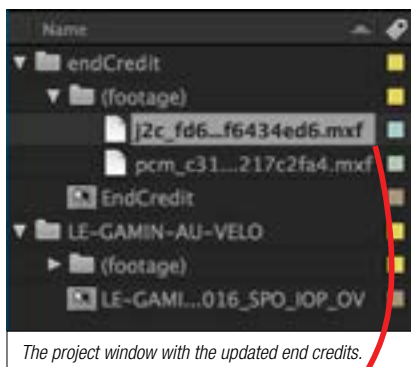


2. Like in a previous example we going to encode a small DCP of the updated end credits.

Use your favorite DCP export application to create the end credit DCP.

Make sure that frame rate, frame size and packaging format matches the main DCP.

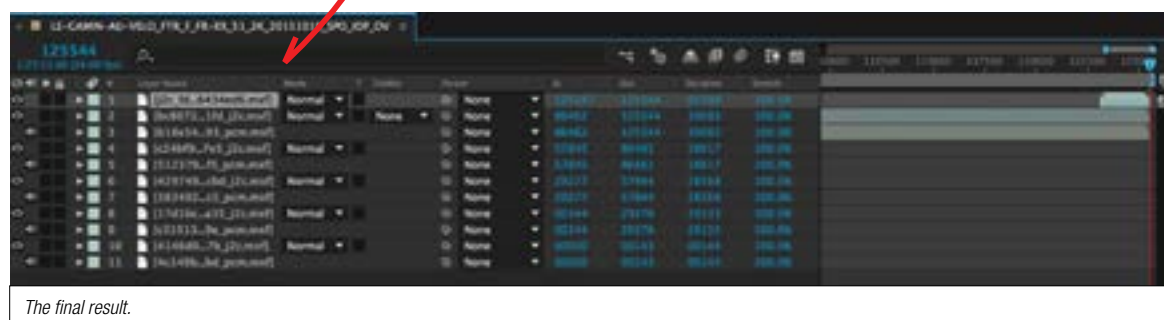
3. Import the encoded end credits DCP into After Effects.



4. In the project panel, select the video file from the end credits DCP and drag it into the timeline for your main DCP.

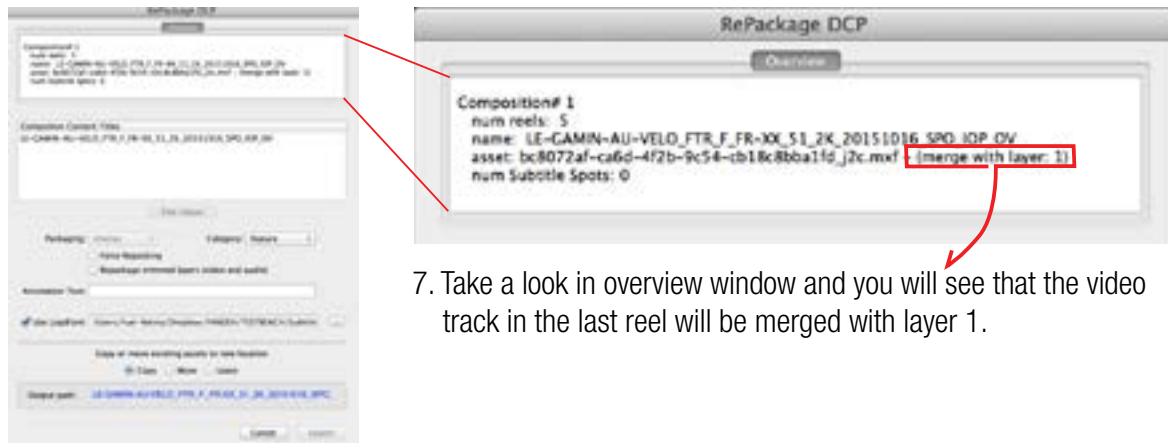
Make sure to match its in-point. It is a good idea to make a note from what frame you did start the encoding.

5. Make sure that the added layer are within the in and out point of the reel you want to update, if not, you will get an error message and the re-mastering is aborted.



Example 6, continued.

- Now it is time to export the re-mastered DCP.  
Select the root folder of the main DCP in the project window.  
Go to File->Export->CuteDCPTools RePackage.  
In the RePackage dialog make any changes needed.  
(Check other examples of what changes you can make)



- Take a look in overview window and you will see that the video track in the last reel will be merged with layer 1.

7. Press Export

# 10. Subtitles/Closed Captions

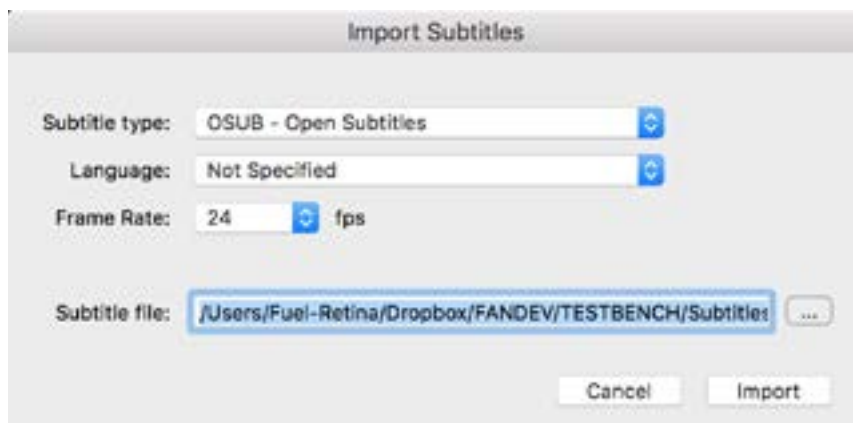
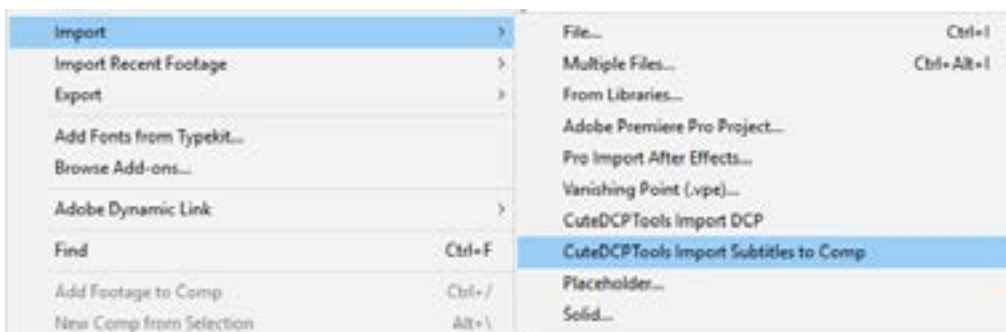
With CuteDCPTools you have the possibility to import subtitles in to a composition or to export subtitles from a composition to an interop subtitle file (Texas Instruments CineCanvas) or SMPTE 428-7 subtitle file.

## Import subtitles dialog

### Import Subtitles

Imports subtitles into an After Effects composition:

Goto menu File->Import->CuteDCPTools Import Subtitles to Comp



**Subtitle type:** Select subtitle type: Open Subtitles or Closed Captions.

Open Subtitles is visible for everybody in the audience.

Closed Captions is only possible view for people using a special Closed Captions device.

**Language:** Select the language of the imported subtitle file.

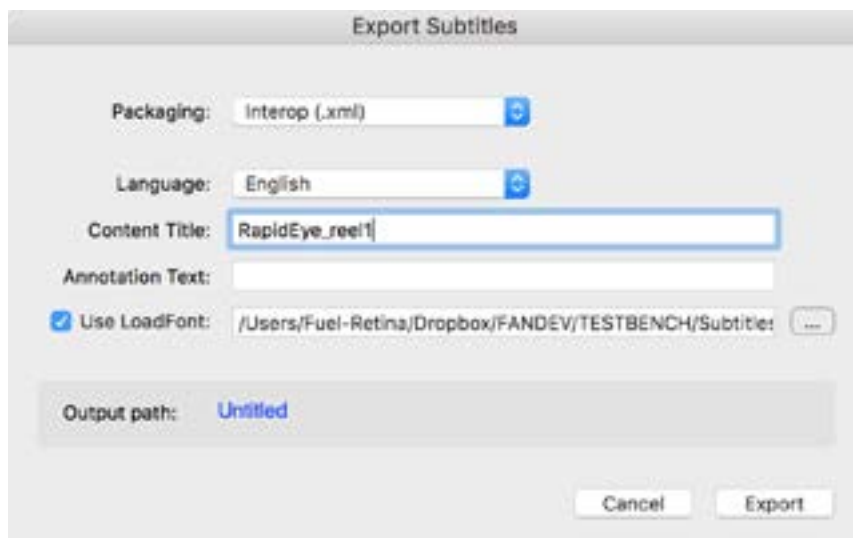
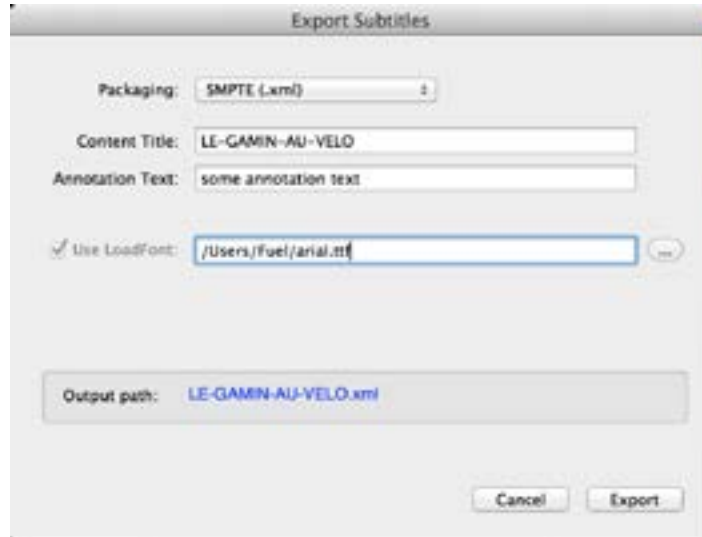
**Frame Rate:** Select the frame rate of the imported subtitle file.

**Subtitle file:** Select the subtitle file that you want to import.

## Export subtitles dialog

### **Export Subtitles**

Exports subtitles from an After Effects composition:  
Goto menu File->Export->CuteDCPTools Subtitle Export



**Packaging:** Select packaging format for the exported subtitle.

**Content Title:** Add a content title for the subtitle.

**Annotation Text:** Add an optional annotation text for the subtitle (SMPTE only).

**Use LoadFont:** Select a font to be used for the subtitle, optional for interop.

**Output Path:** Select output path for the exported subtitle.

# 11. Encryption

## - Example 7 - Encrypt a DCP -

To protect your film from unauthorized access, encryption is the ultimate way to go.

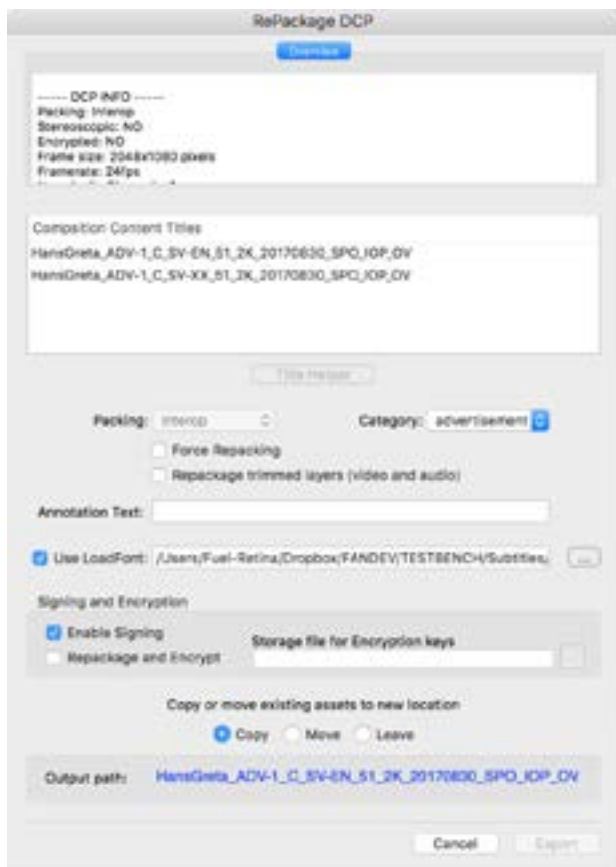
You decide which cinema who has right to show your film and for how long time.

The cinema that are going to show your film, gets a KDM (Key Delivery Message) which is a key to unlock the encrypted DCP.

KDMs cannot be created within CuteDCPTools, Fandev has developed an external application for this purpose called CuteKdmMaker

Follow the procedure as described in example 1 for importing a DCP

1. Launch After Effects
2. From the menu select File->Import->CuteDCPTools Import DCP, select the DCP you would like to import.
3. In the Project panel, select the root folder of the DCP you want to encrypt.  
Go to menu "Export->CuteDCPTools RePackage DCP"  
The RePackage DCP dialog is now open.



4. The first thing you need to do is to tick the "Enable Signing" checkbox. If this checkbox is disabled it has to be enabled in the preferences first, See Preferences section.

5. Then tick "Repackage and Encrypt" checkbox.

The "Storage File for Encryption keys" text field will automatically be filled out when setting the Output path for the DCP. The default location for the KeyFile is next to the Re-Mastered DCP.

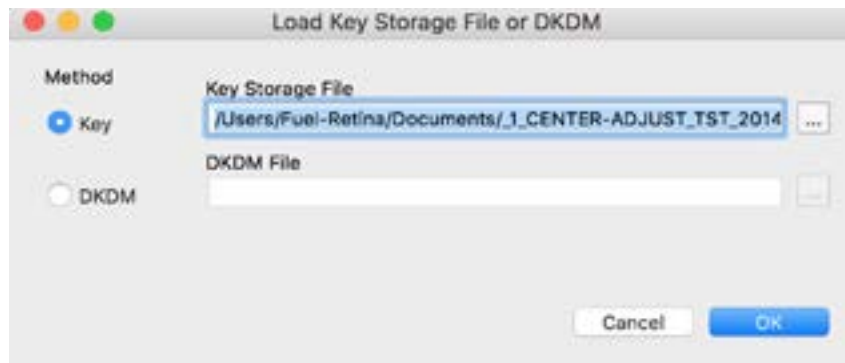
If you prefer to store it somewhere else, you have the possibility to browse and select a new location.

6. Press Export and the encryption process starts

## - Example 8 - Import an encrypted DCP

The procedure to import an encrypted DCP is almost identical to import an unencrypted DCP.

1. Launch After Effects
2. Select the DCP you would like to import. From the menu select File->Import->CuteDCPTools Import DCP.
3. If the importer detects that the DCP is encrypted, you will be asked how you want to decrypt it.



4. The importer looks by default for a “Key Storage File“ next to the DCP, if it is found, the key file path is automatically filled out and the Method: ‘Key’ is selected .
5. The Method: ‘DKDM’, (Distribution Key Delivery Message), is the second choice.

The difference between a DKDM and a KDM is that the DKDM is issued for DCP mastering system and a KDM is issued for a cinema playback server, but structurally they are the same.

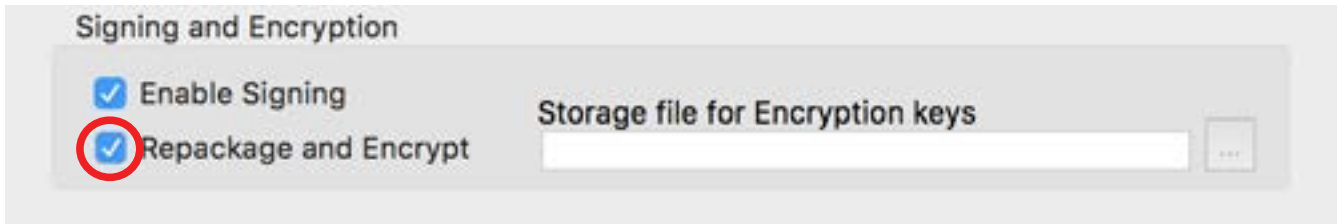
Mastering systems and cinema playback servers has certificates that identifies them, from these certificates a DKDM or KDM could be issued.

6. Press OK and the DCP is imported.

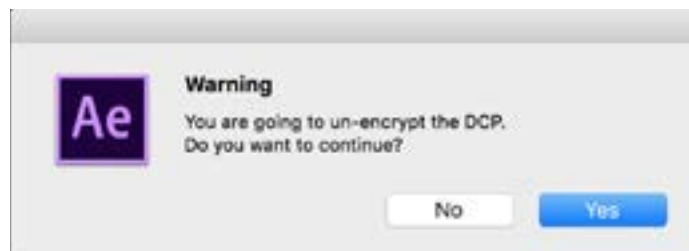
## - Example 9 - Unencrypt a DCP -

To unencrypt a DCP is as simple as to encrypt it

1. Import an encrypted DCP, see previous example.
2. In the Project panel, select the root folder of the DCP you want to unencrypt.  
Go to menu "Export->CuteDCPTools RePackage DCP"  
The RePackage DCP dialog is now open.



3. Uncheck the "Repackage and Encrypt" and you will get a warning saying:



4. Select your output path
5. Press Export and your unencrypt process starts.



## 12. Moving the DCP to the cinema

Before copying your DCP to an external hard drive, make sure your external drive is formatted in one of the following formats: NTFS, EXT2 or EXT3

NTFS is a Windows file system.

EXT2 & EXT3 are Linux file systems.

If your drive is Mac formatted (HFS/HFS+), the cinema server will not be able to read the drive.

Using FTP for delivery.

If you have a fast Internet connection and if the cinema or distributor has this service, this is a good option.

But there is one important thing to keep mind when uploading or downloading a DCP to/from a ftp server.

During the upload and download process, the line endings of the xml-files that are ASCII files could be altered.

What you need to do is to change the transfer mode in your ftp application.

Ftp applications has different transfer modes, ASCII/Binary/Auto. "Auto" is mostly a default setting.

The "Auto" setting treats your xml-files as ASCII and video and audio files as binary

It is crucial to set the transfer mode to "Binary", if not, xml-files are changed and results in bad signature hash values; errors may occur during DCP ingest or playback.

We welcome your feedback on CuteDCPTools

If you have any feedback, problems or questions, please contact us at:  
info@fandev.com

For more DCP tutorials please visit: [www.cutedcp.com](http://www.cutedcp.com)

