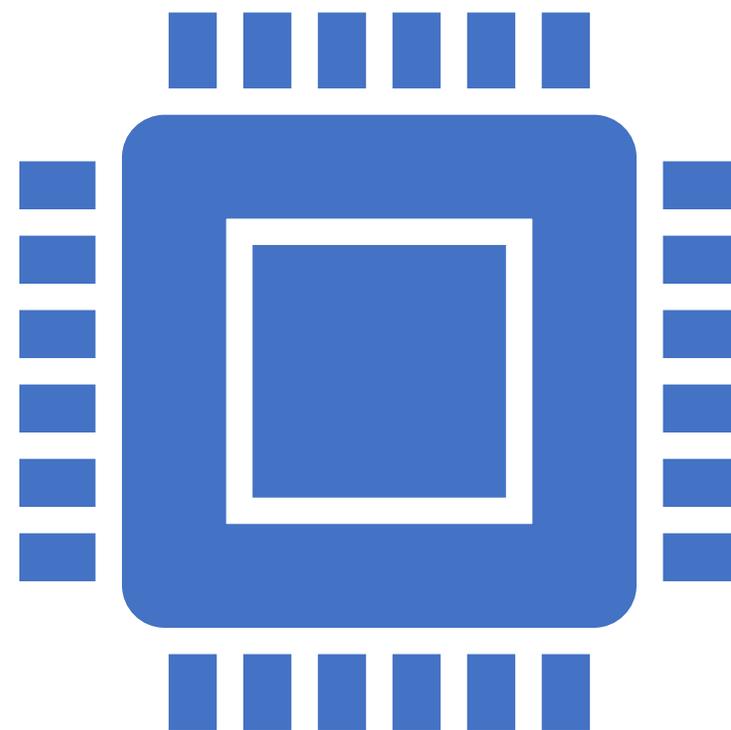


How to configure and load videos directly
to an MCS server for LCI playback

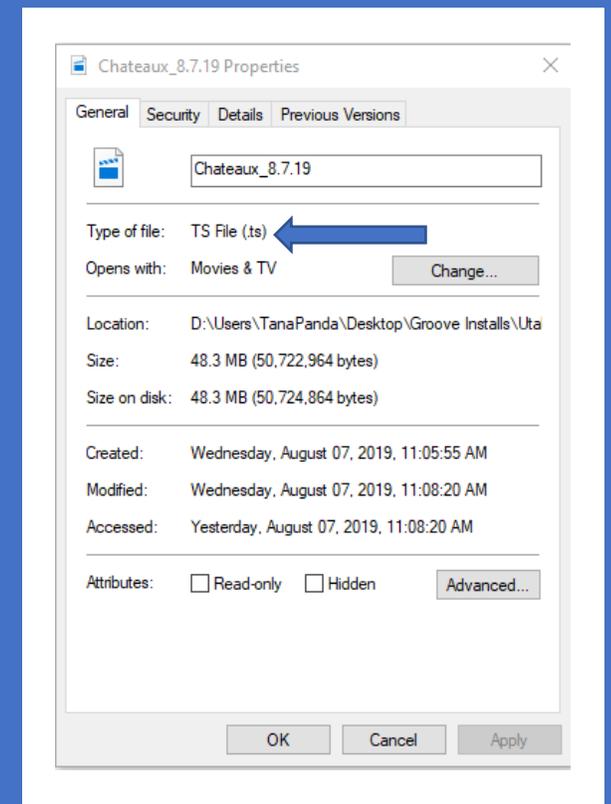
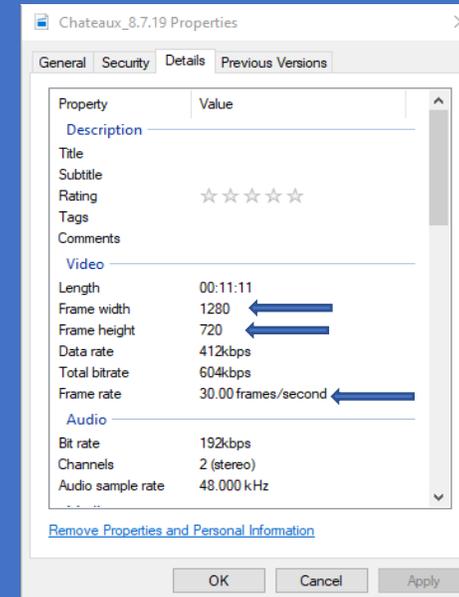
Converting and Adding LCI Content to an MCS Server



MCS Videos

- In order to load a video directly onto an MCS server it needs to be formatted properly in order to avoid streaming issues. The videos need to follow the following parameters.
 - Video Format: MPEG4 (H.264)
 - Audio Format: AC3
 - Resolution: 720x480, 1280x720, or 1920x1080
 - Frame Rate: 29.97, 30, 59.94, or 60 fps
 - Aspect Ratio: 4x3 or 16x9 (16x9 is strongly recommended as most TV's use this aspect ratio. 4x3 would be for tube TV or other older square screens.
 - File Type: The file must be a transport stream file represented as a .TS file. You will not be able to load a MP4 file and have it play from the MCS.

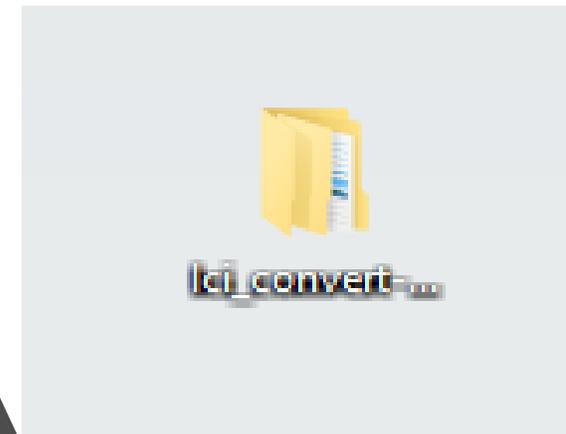
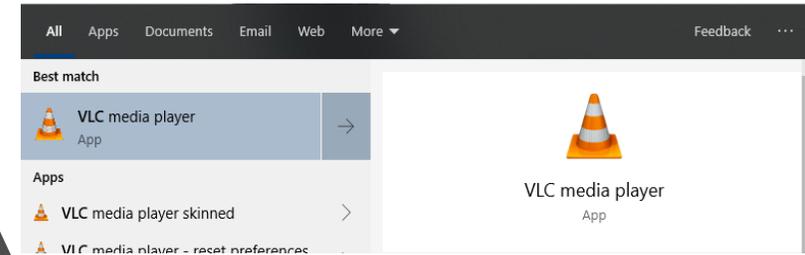
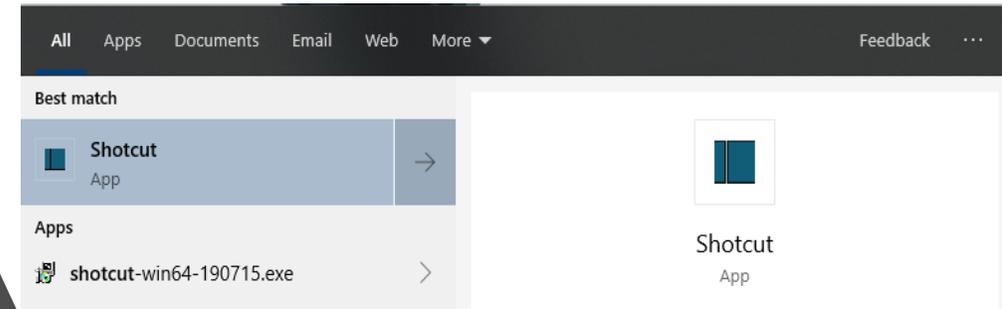
By right clicking the file and selecting properties we can get some of the information about the file. As you can see the file is a .TS, its in 1280x720 resolution, and has 30 fps

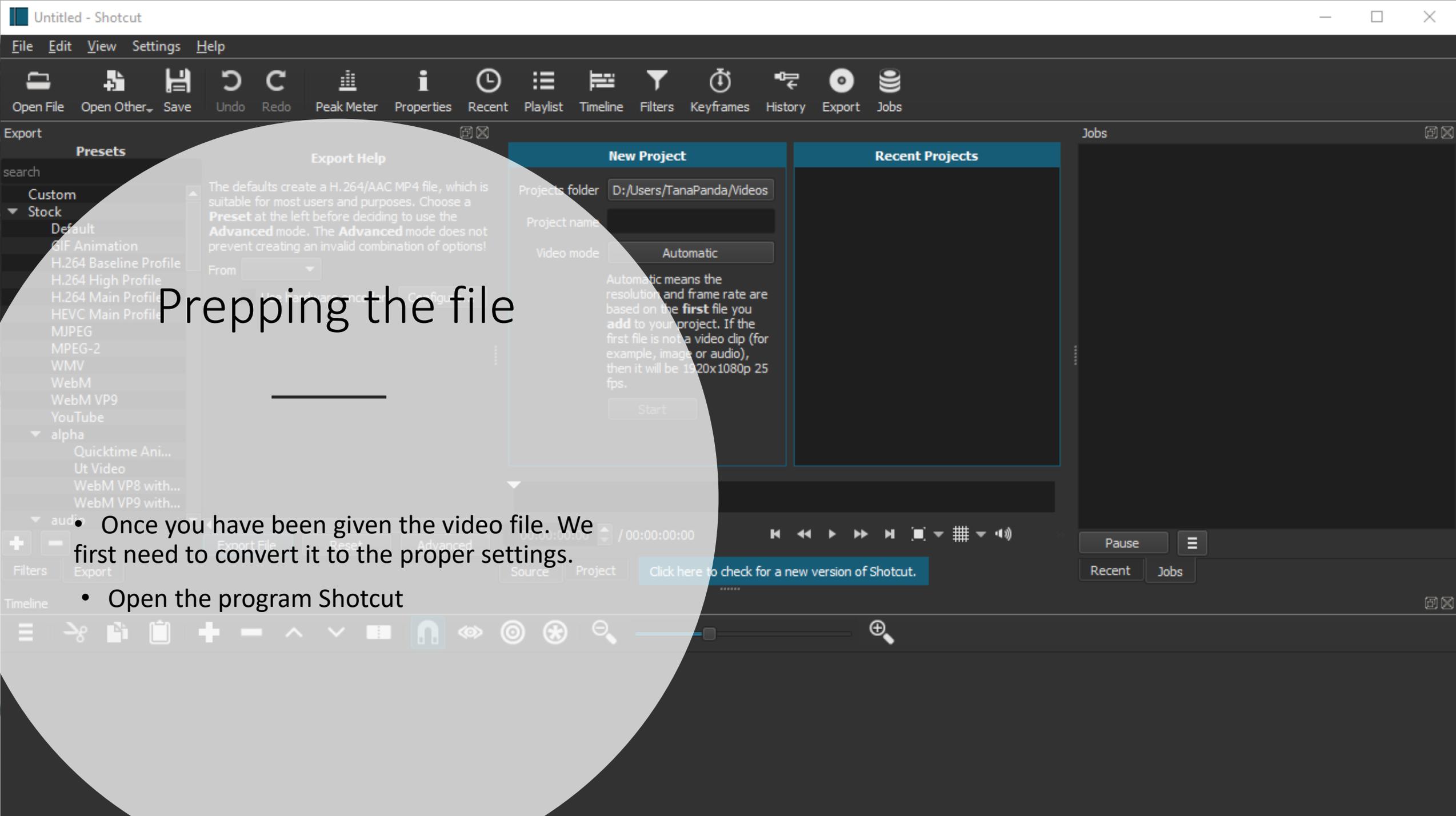


Tools Needed

To properly convert and configure a video to be loaded onto the MCS server you will need the following programs:

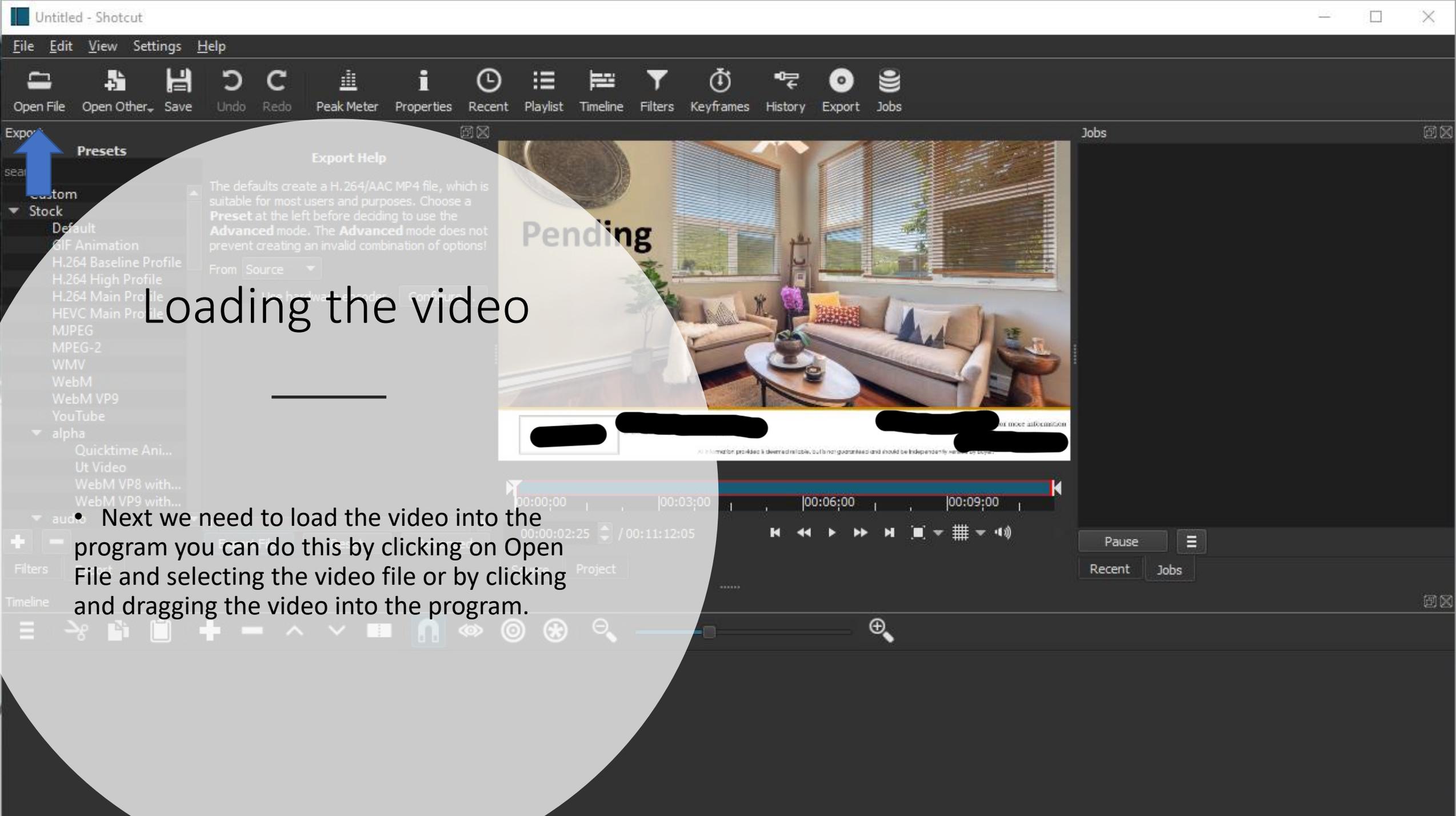
- VLC Media Player
- Shotcut
- LCI_Convert program from DirecTV





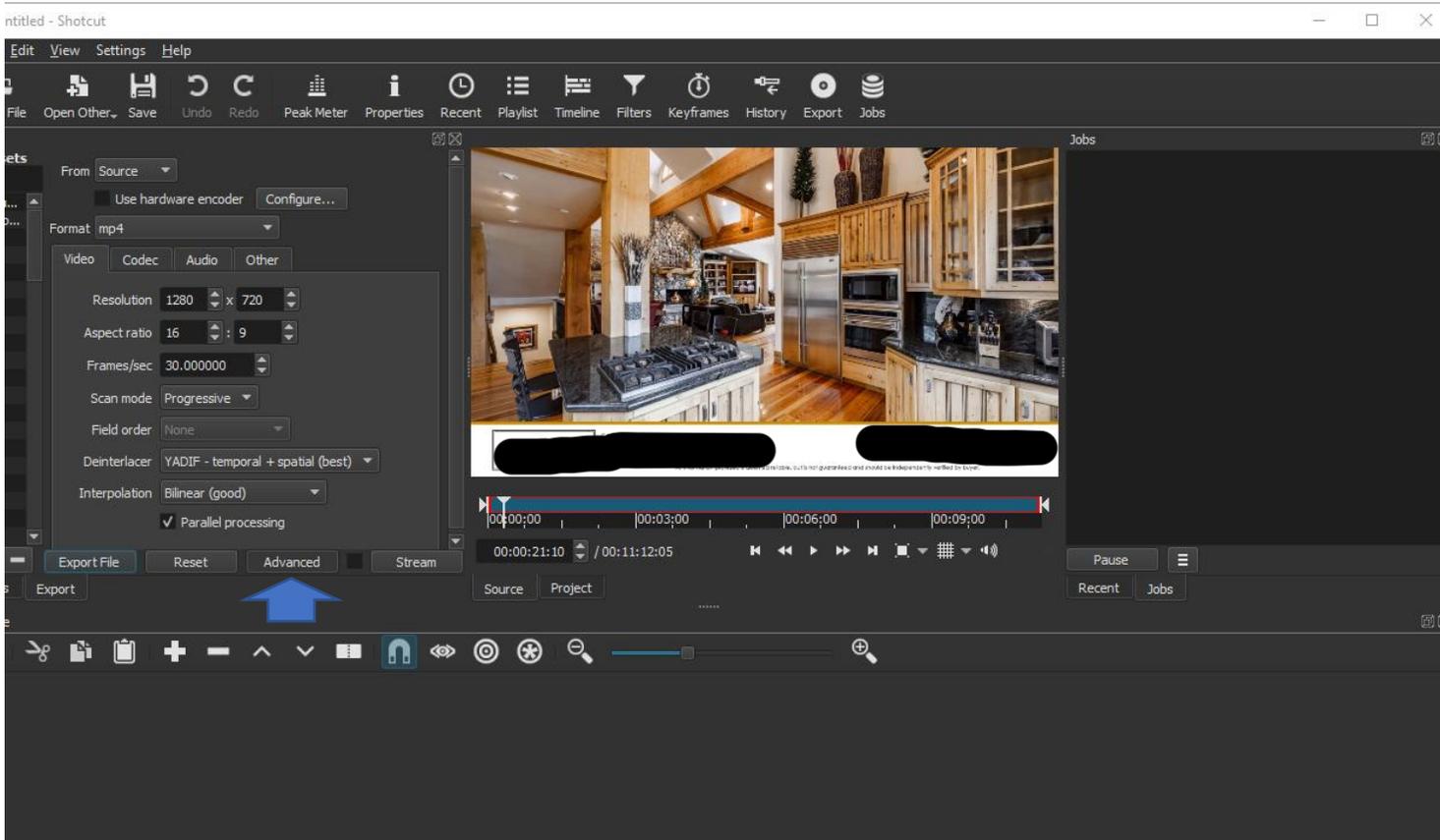
Prepping the file

- Once you have been given the video file. We first need to convert it to the proper settings.
- Open the program Shotcut



Loading the video

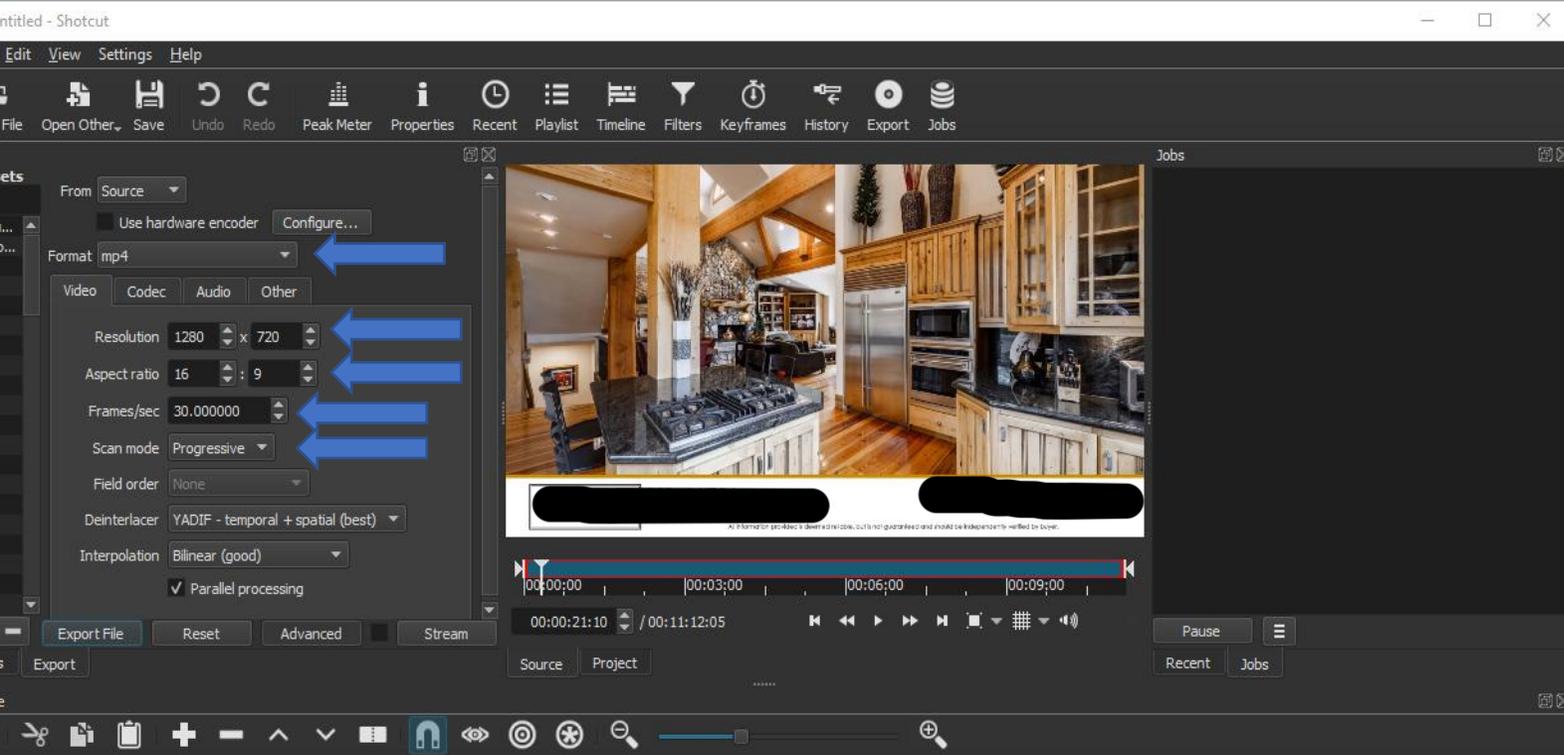
• Next we need to load the video into the program you can do this by clicking on Open File and selecting the video file or by clicking and dragging the video into the program.



Once you have the video loaded into Shotcut we will need to export it into a new file with the desired formats.

- Start by clicking on the Advanced button to the right of the Export File and Reset button.

Advanced Export



Video Settings

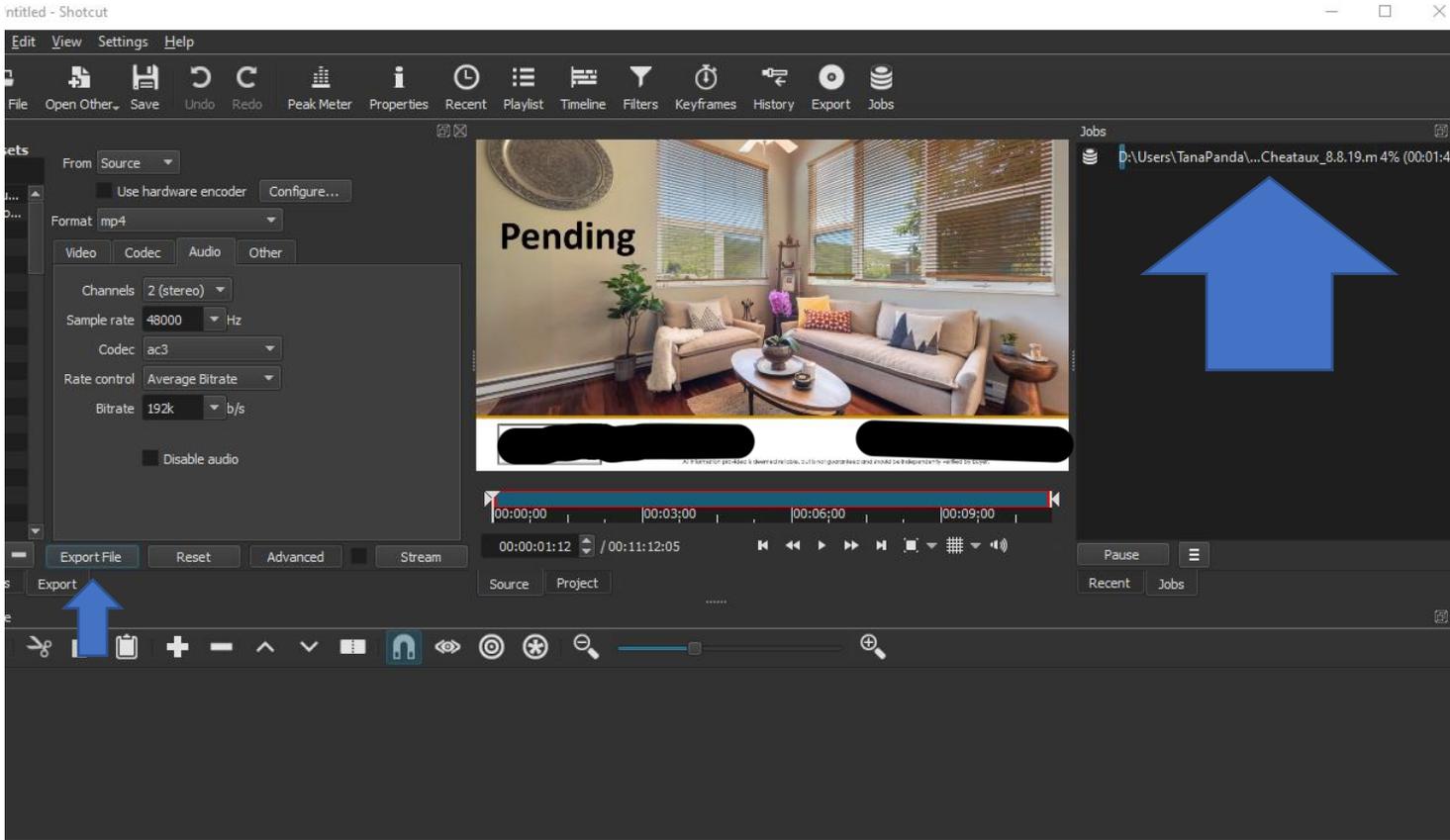
On the Advanced tab we need to first set the desired values for the Video.

- Change the resolution to the desired approved values. In this example we are using 1280x720
- Make sure that the aspect ratio is 16x9
- Change the Frames/sec field to one of the approved fps. In this example we are using 30. Make sure that it is 30.0000 not 30.1284 or other odd number as this will cause issues.
- Make sure that the scan mode drop down window is set to Progressive and not Interlaced.
- Also make sure that the Format drop down is set to MP4

Audio Settings

- Now we will need to change the Audio settings. Click on the Audio tab and set the following values:
 - Make sure the Channels drop down is set to 2 (stereo)
 - Click on the Codec drop down window and select ac3
 - In the Sample rate field change the value to 48000
 - Click the Bitrate drop down and select 192k
 - Make sure that the Format drop down window reflect mp4

The screenshot shows the Shotcut software interface with the 'Export' dialog box open. The 'Format' dropdown is set to 'mp4'. The 'Audio' tab is selected, showing the following settings: Channels: 2 (stereo), Sample rate: 48000 Hz, Codec: ac3, Rate control: Average Bitrate, and Bitrate: 192k b/s. The 'Disable audio' checkbox is unchecked. The background shows a video preview window with the word 'Pending' overlaid on a living room scene. The timeline at the bottom shows a duration of 00:00:01:12 / 00:11:12:05.

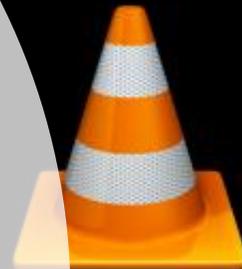


- Once you have made all the desired changes click the Export File button and name the file something that will easily identify it such as Property_Name_8.8.19 this will help keep track of which file you are working with.

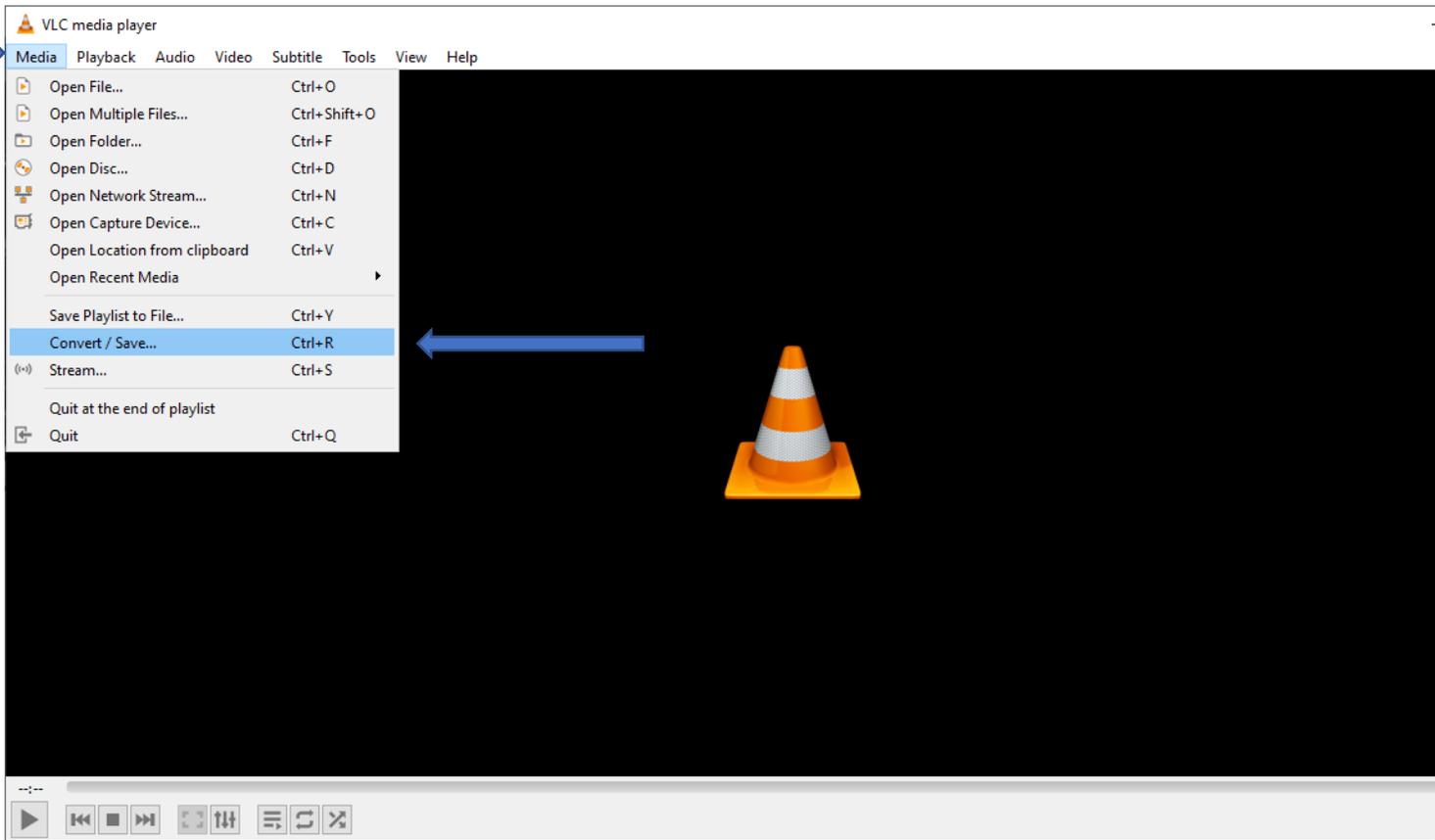
- Once you have clicked save the file should appear in the top right with a progress percentage. The bigger the file the longer it will take to convert.

Export File

Converting our file to a .TS



Now that we have a video file formatted the way we want it we now need to change it to a .TS file. We will now need to open VLC Media Player

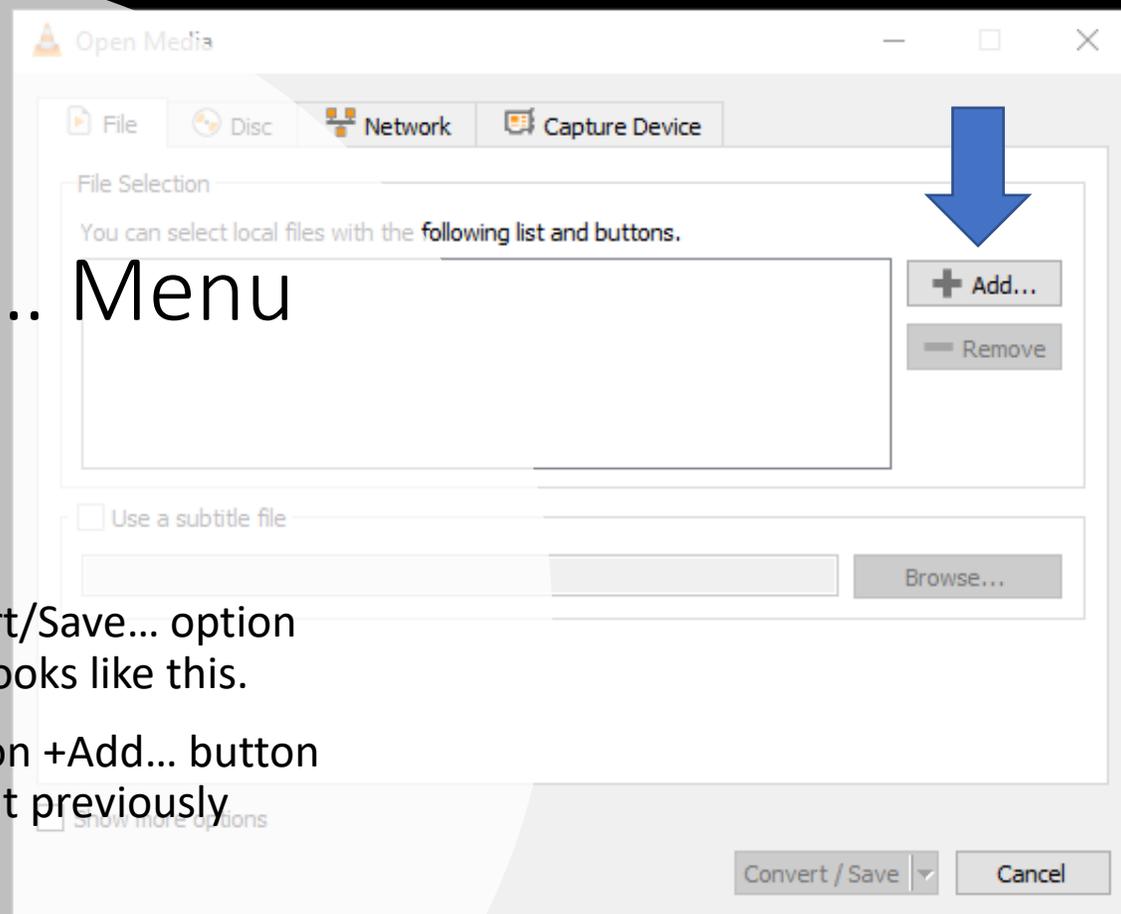


- Once VLC Media Player is open you will need to click on Media at the top left of the program and select the Convert/Save... option from the list.

VLC Conversion

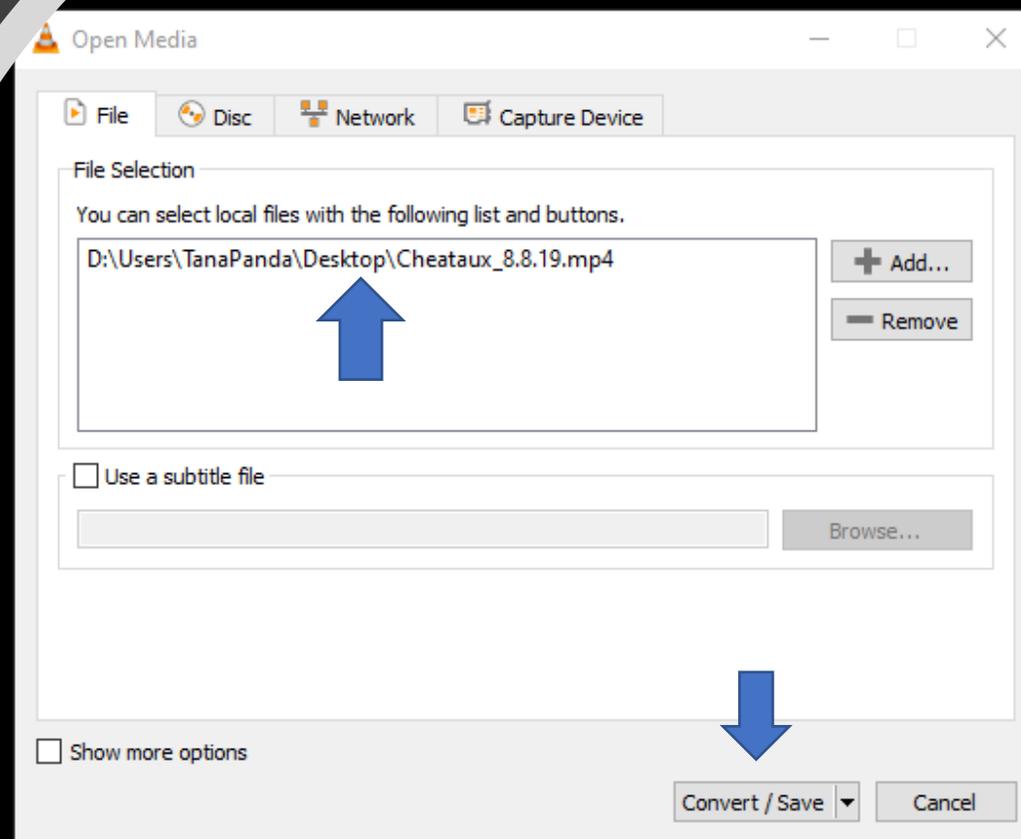
Convert/Save... Menu

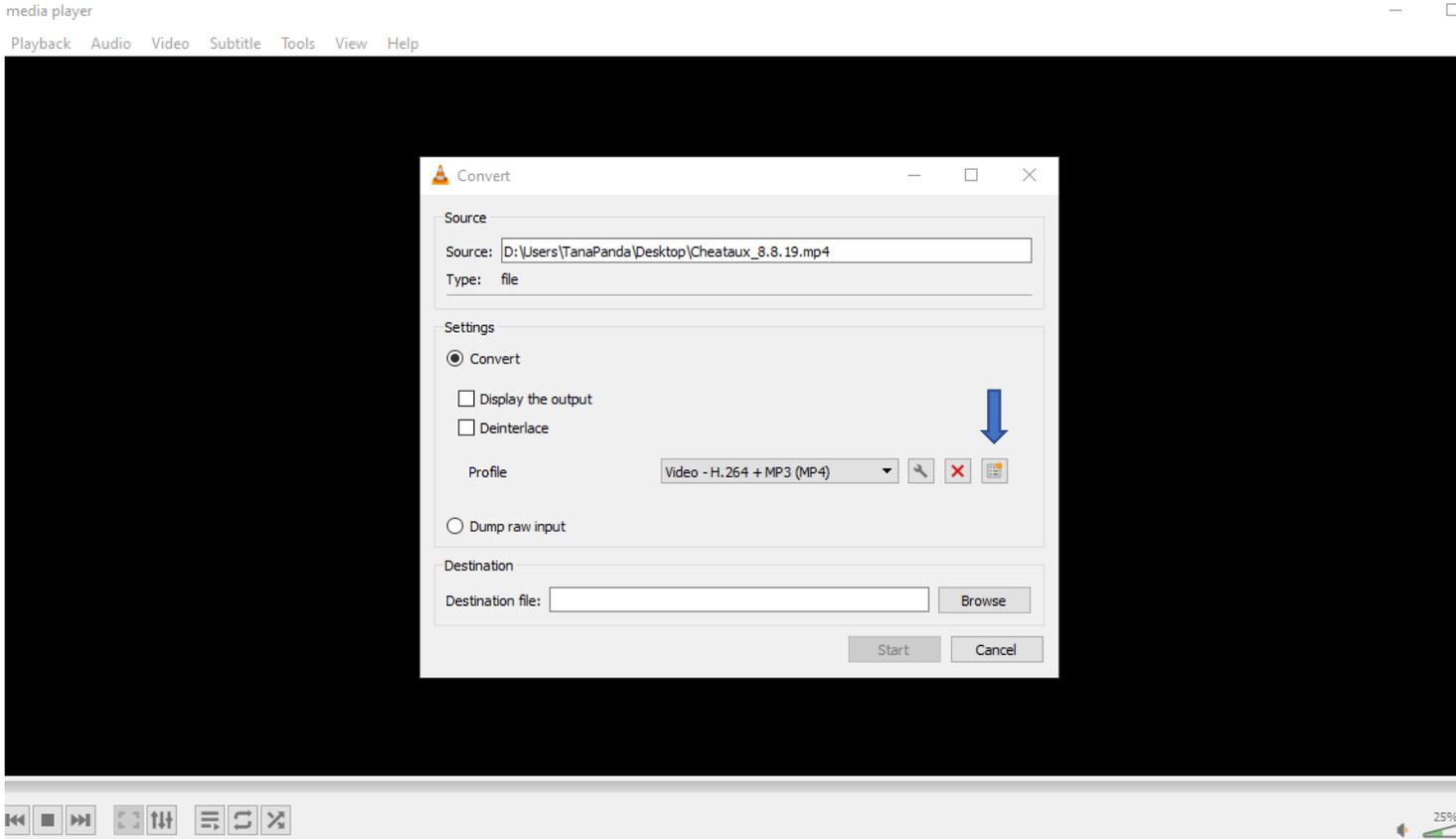
- Once you select the Convert/Save... option you will have a window that looks like this.
- You will now need to click on +Add... button and select the file that Shotcut previously exported for us.



Once you have added the file that you wish to convert click the Convert/Save button on the bottom.

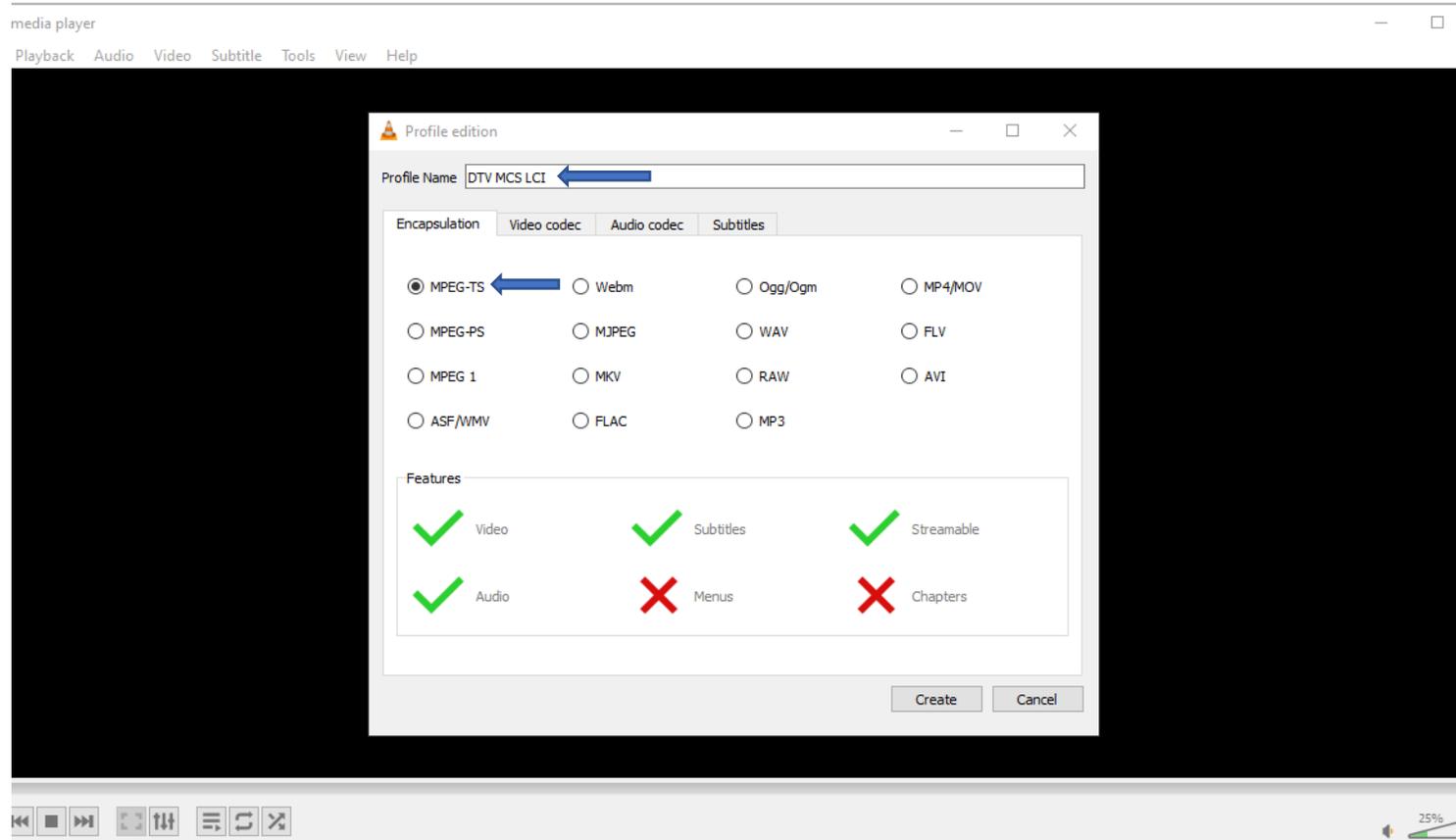
Ready to Convert





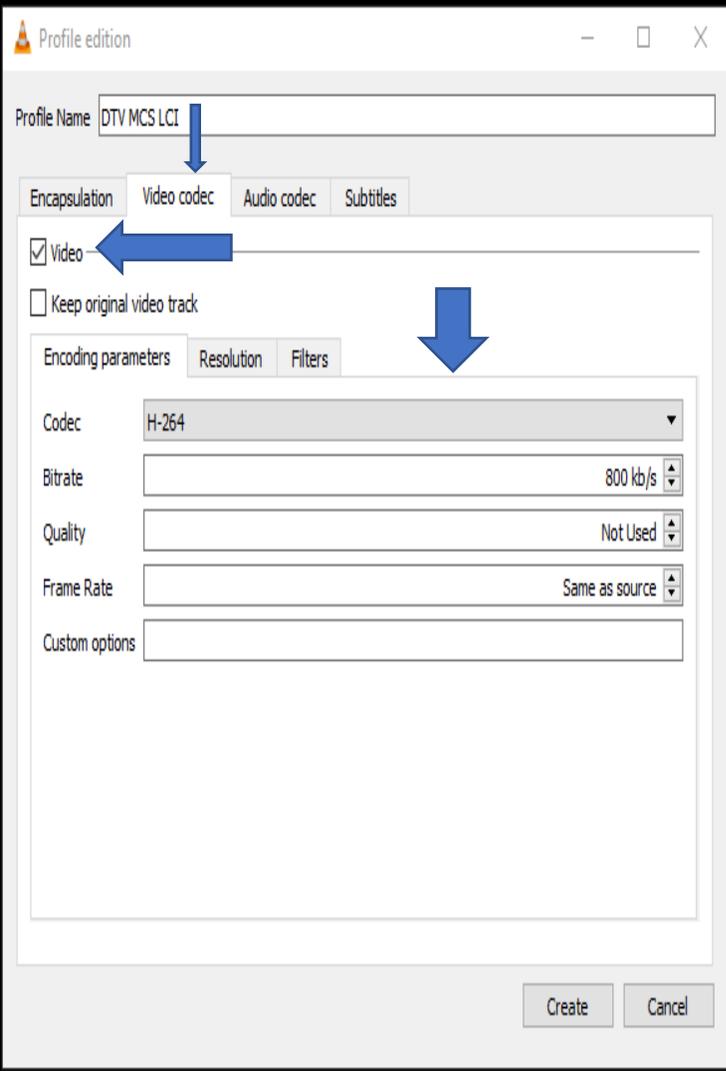
- Now that we have our video loaded and have used VLC to start the conversion process we will need to configure how we want the conversion to change the video.
- From the Convert menu select the last icon to the right of the Profile drop down box to create a new conversion profile

Conversion Process



- The first thing we need to do is set the encapsulation. You can do this by selecting the MPEG-TS bubble.
- We also need to name our profile. I have selected DTV MCS LCI. By creating this profile we will be able to simply select it for future conversions.

Encapsulation and Name



Video Codec

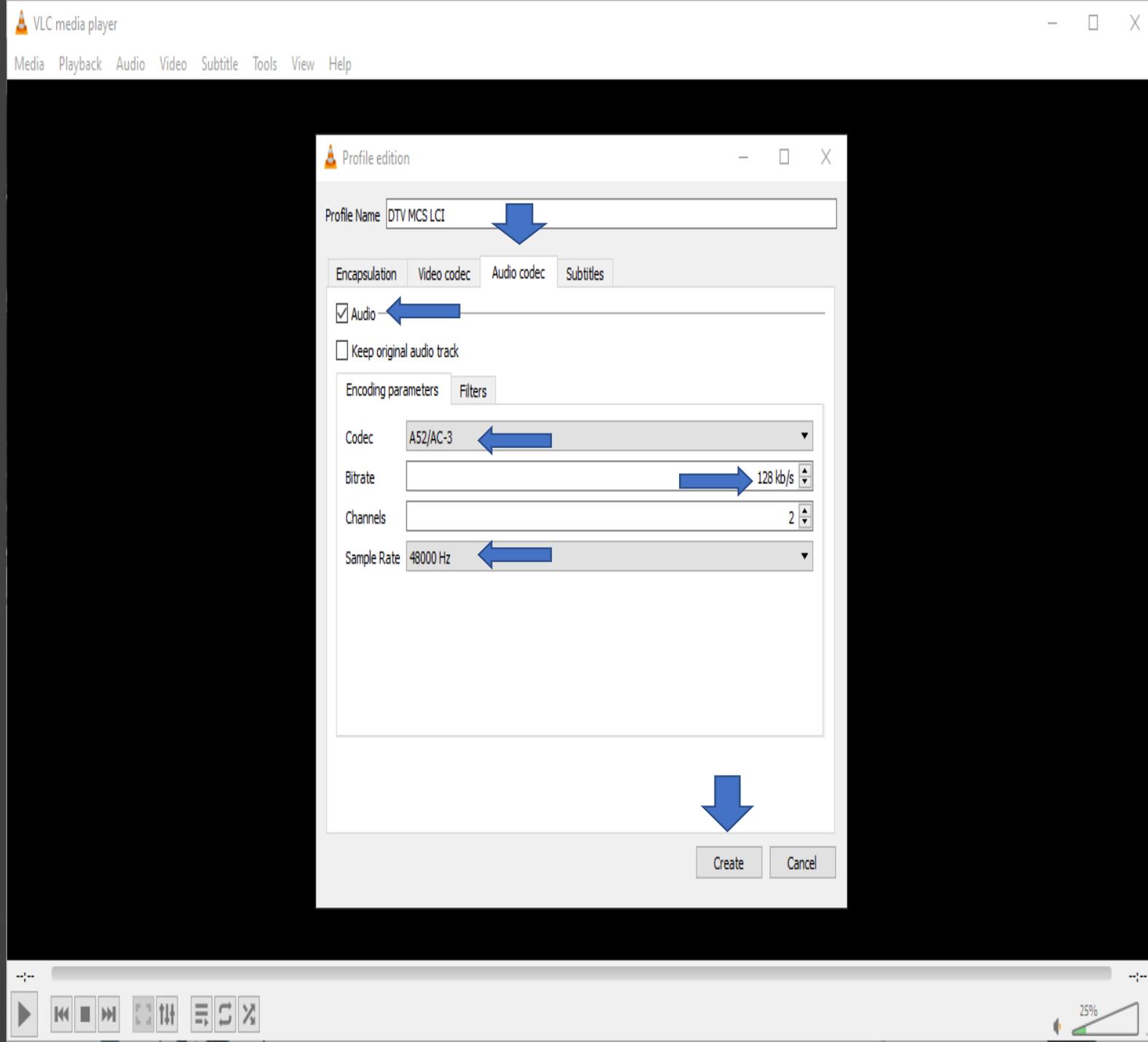
Next we will need to go to the Video Codec tab.

From here select the Video check box.

Then set the Codec drop down to H-264

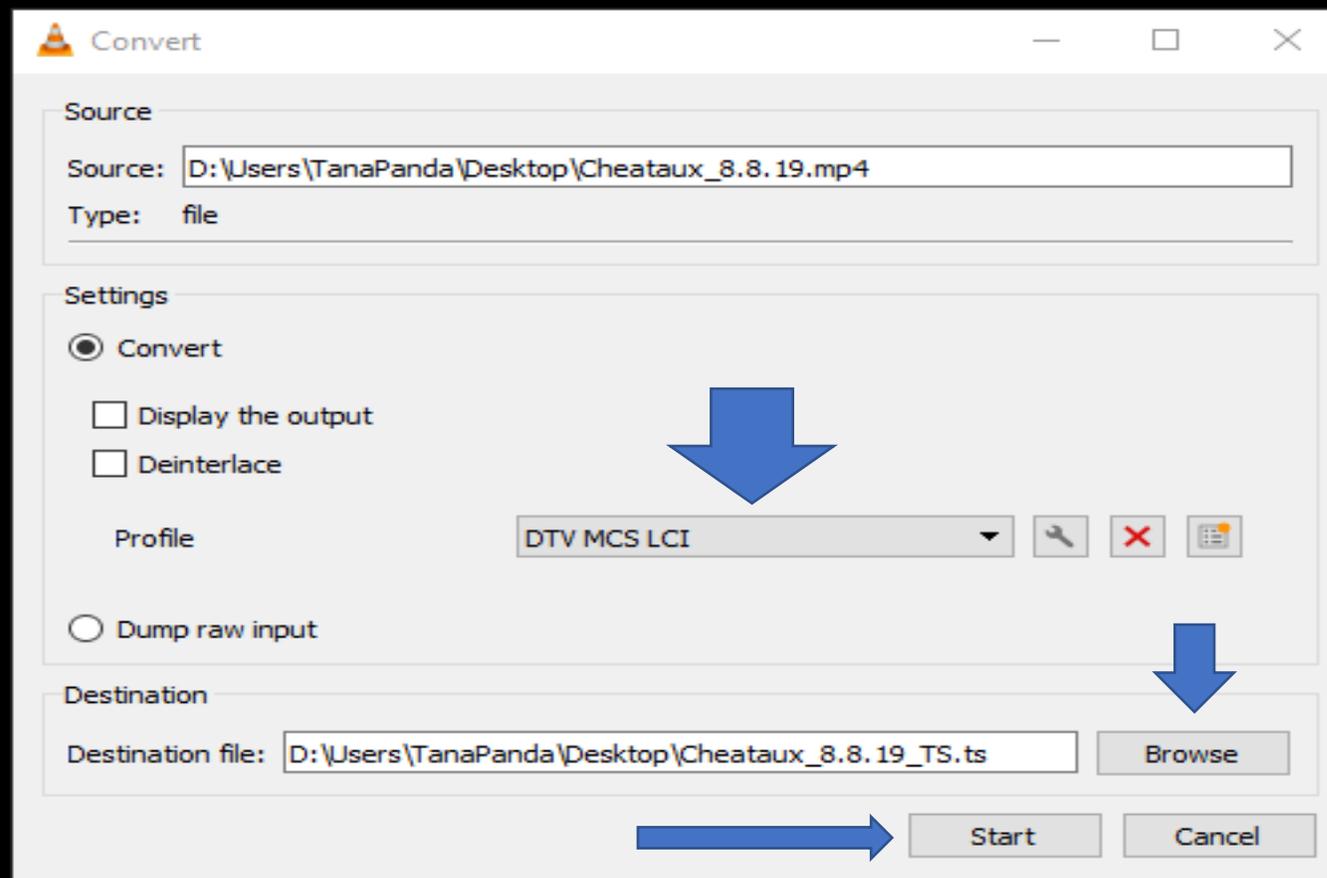
Audio Codec

- Next we will navigate to the Audio Codec tab.
- Check the box next to Audio
- Using the drop down window next to Codec select the A52/AC-3 option.
- Set the Bitrate to 192kb/s
- Change the sample Rate to 48000Hz
- Once this has all been set click the create button on the bottom.



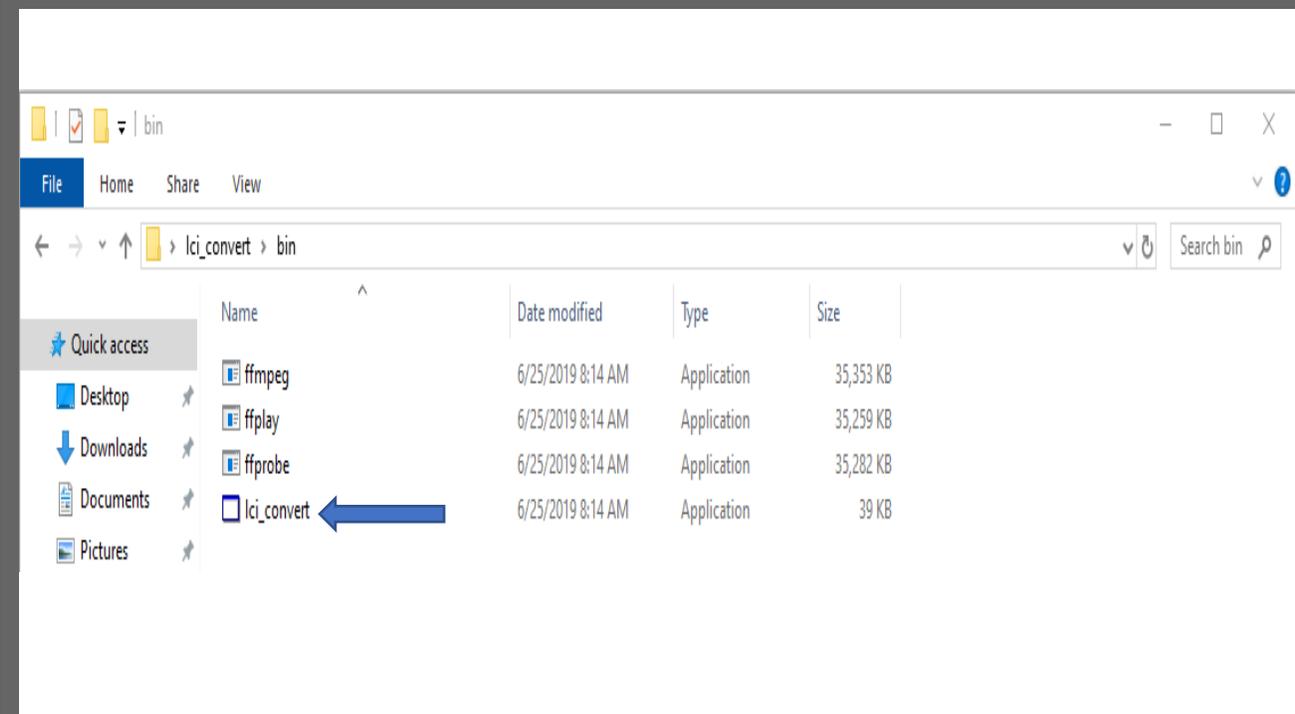
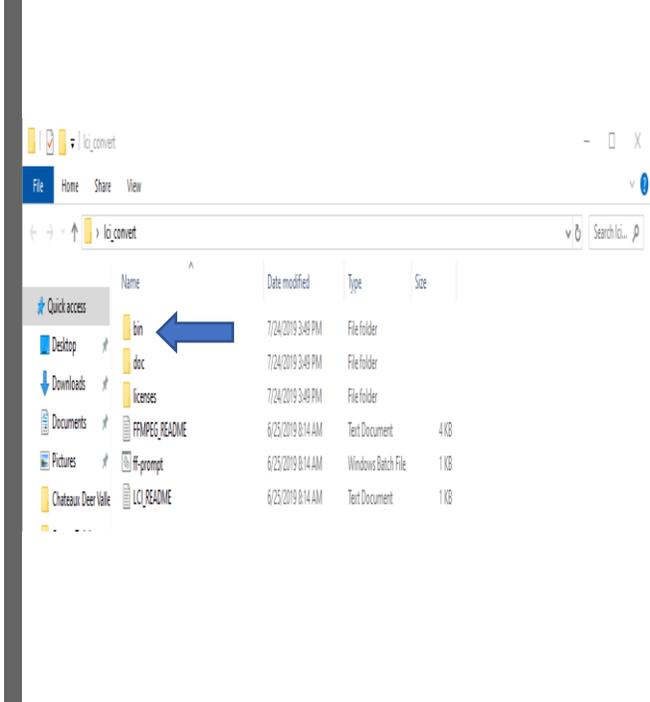
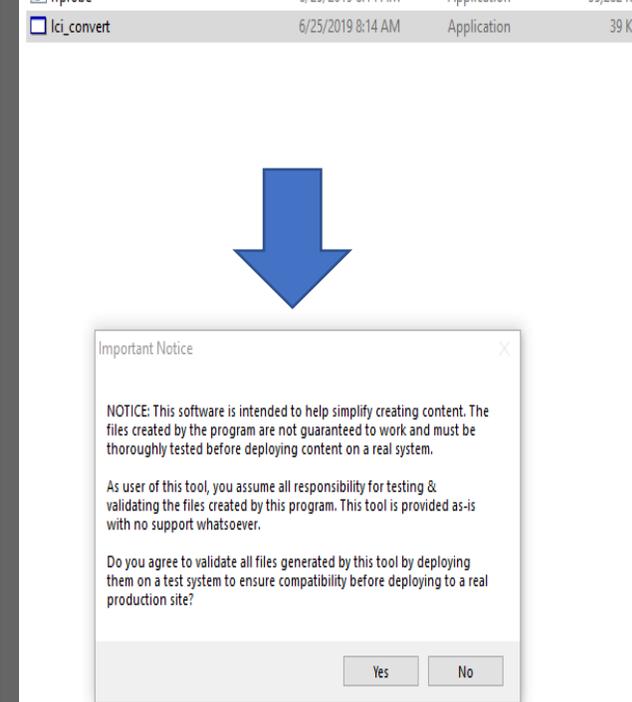
Setting the Destination

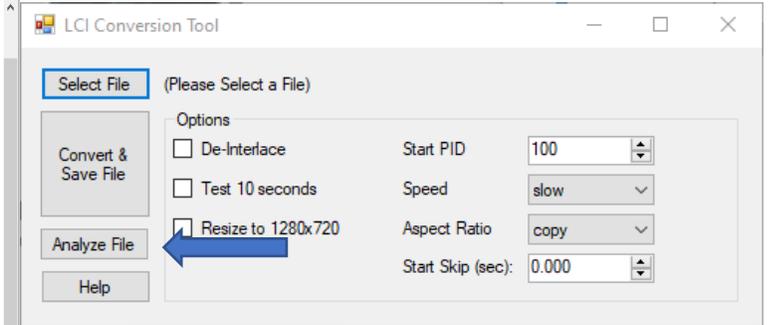
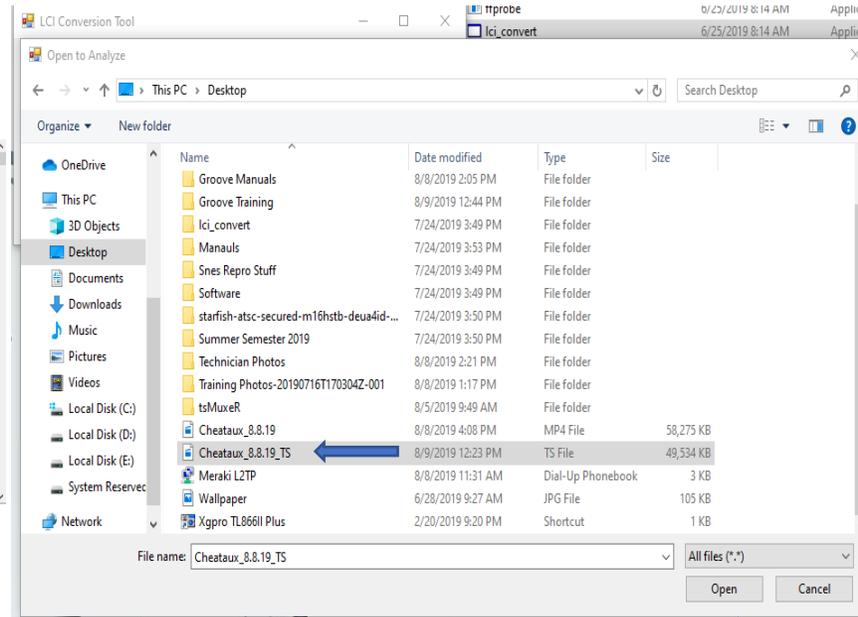
- Once we have Created the profile you can select it using the drop down window next to Profile
- From here we will need to set a destination for the converted file. Click on the Browse button to do this. I recommend labeling the file so that there is no mistake as to which we will be using. In this example I added _TS to the file name. Remember replace all spaces with _.
- Once you have the Profile and the destination set click on Start. You will see VLC run a progress bar as if it were playing the content. When it finishes the file will almost be ready to place on the MCS server.



Finding the PID Using LCI_Convert

- Once the file has been converted we will need to use one other program to discover the PID for the video and audio.
- Open the LCI_Convert folder.
- Now open the bin folder
- From here double click and launch the LCI_Convert application.
- Once it launches you will get the following screen. Click Yes to finish loading the application.





LCI Conversion Tool

- Once the Conversion tool has been launched click on the Analyze File Button
- Next you will need to select the file that you converted to a .TS and click Open
 - Then you should have a blank command prompt window that opens

```
Raw Output
<?xml version="1.0" encoding="UTF-8"?>
<ffprobe>
  <streams>
    <stream index="0" codec_name="ac3" codec_long_name="ATSC
A/52A (AC-3)" codec_type="audio" codec_time_base="1/48000"
codec_tag_string="AC-3" codec_tag="0x332d4341" sample_fmt="fltp"
sample_rate="48000" channels="2" channel_layout="stereo"
bits_per_sample="0" dmix_mode="-1" ltrt_cmixlev="-1.000000"
ltrt_surmixlev="-1.000000" lora_cmixlev="-1.000000"
lora_surmixlev="-1.000000" id="0xc8" r_frame_rate="0/0"
avg_frame_rate="0/0" time_base="1/90000" start_pts="36000"
start_time="0.400000" duration_ts="60462720" duration="671.808000"
bit_rate="192000">
      <disposition default="0" dub="0" original="0" comment="0"
lyrics="0" karaoke="0" forced="0" hearing_impaired="0"
visual_impaired="0" clean_effects="0" attached_pic="0"/>
    </stream>
    <stream index="1" codec_name="h264" codec_long_name="H.264 /
AVC / MPEG-4 AVC / MPEG-4 part 10" profile="High" codec_type="video"
codec_time_base="1/60" codec_tag_string="[27][0][0][0]"
codec_tag="0x001b" width="1280" height="720" coded_width="1280"
coded_height="720" has_b_frames="2" sample_aspect_ratio="1:1"
display_aspect_ratio="16:9" pix_fmt="yuv420p" level="31"
color_range="tv" color_space="bt709" color_transfer="bt709"
chroma_location="left" refs="4" is_avc="0" nal_length_size="0"
id="0x64" r_frame_rate="30/1" avg_frame_rate="30/1"
time_base="1/90000" start_pts="42444" start_time="0.471600"
duration_ts="60462000" duration="671.800000"
bits_per_raw_sample="8">
      <disposition default="0" dub="0" original="0" comment="0"
lyrics="0" karaoke="0" forced="0" hearing_impaired="0"
visual_impaired="0" clean_effects="0" attached_pic="0"/>
    </stream>
  </streams>

  <format
filename="D:\Users\TanaPanda\Desktop\Cheataux_8.8.19_TS.ts"
nb_streams="2" nb_programs="1" format_name="mpegts"
format_long_name="MPEG-TS (MPEG-2 Transport Stream)"
start_time="0.400000" duration="671.871600" size="50722776"
bit_rate="603957" probe_score="100"/>
</ffprobe>
```

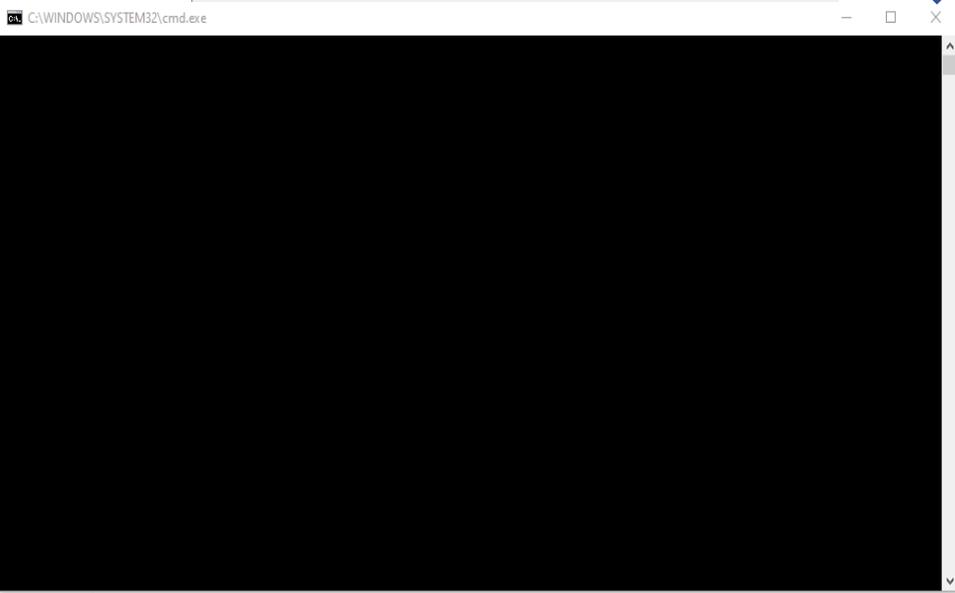


OK



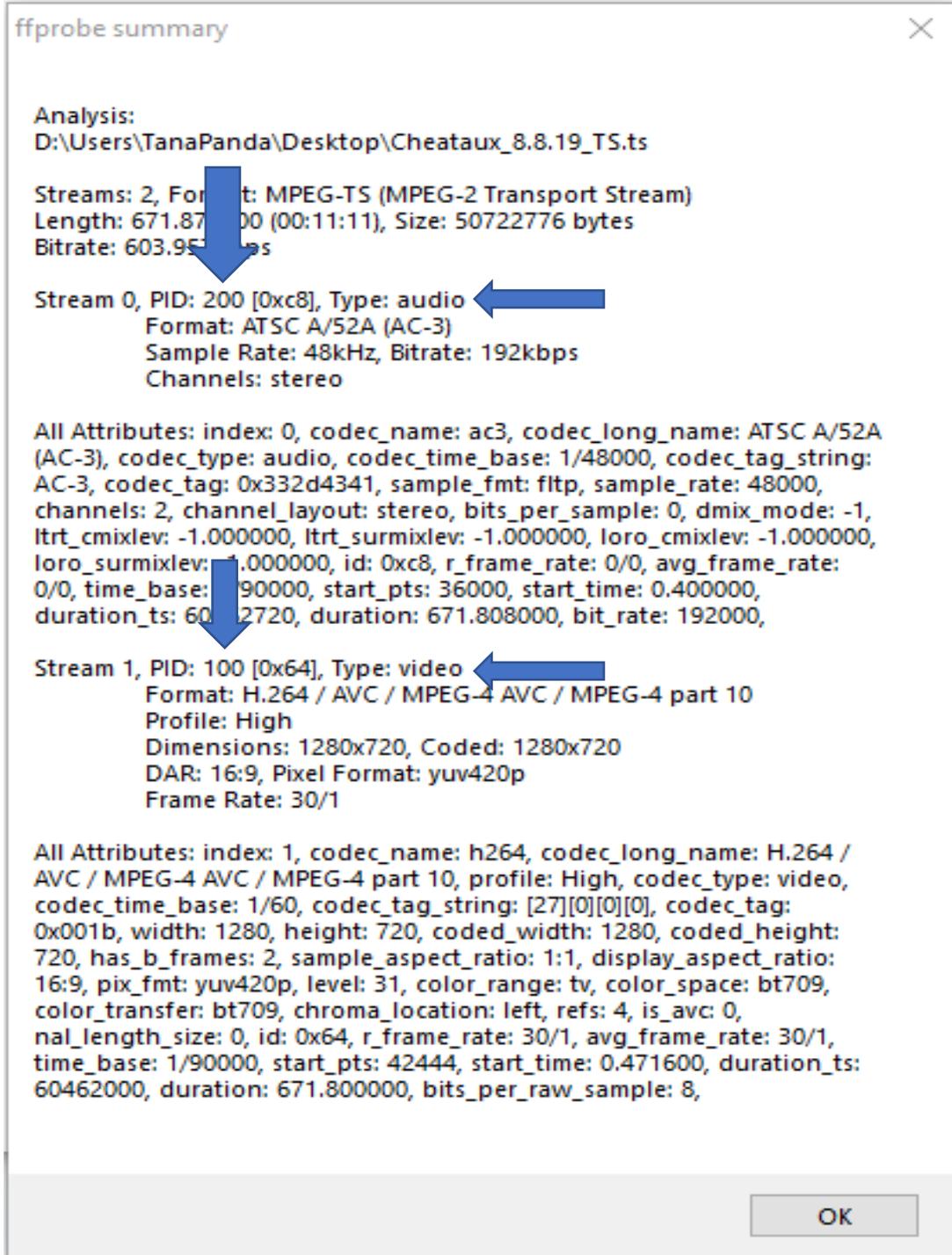
Close the Command Prompt

- Click the X in the top right of the command prompt to close it and a new window will appear labeled Raw Output
- From this screen click the OK button



ffprobe summary

- Once you have clicked Ok you will get the ffprobe summary page. This contains the information we will need when loading the content onto the MCS server.
- From here what we need to know is the PID for both the Video and the Audio
- As you can see the PID for the Video is 100
- And the PID for the Audio is 200
- Write both of these down and transfer your .TS file to a thumb drive to be loaded onto your MCS.



The screenshot shows the 'ffprobe summary' window. It contains the following text:

Analysis:
D:\Users\TanaPanda\Desktop\Cheataux_8.8.19_TS.ts

Streams: 2, Format: MPEG-TS (MPEG-2 Transport Stream)
Length: 671.870000 (00:11:11), Size: 50722776 bytes
Bitrate: 603.95 kbps

Stream 0, PID: 200 [0xc8], Type: audio ←
Format: ATSC A/52A (AC-3)
Sample Rate: 48kHz, Bitrate: 192kbps
Channels: stereo

All Attributes: index: 0, codec_name: ac3, codec_long_name: ATSC A/52A (AC-3), codec_type: audio, codec_time_base: 1/48000, codec_tag_string: AC-3, codec_tag: 0x332d4341, sample_fmt: fltp, sample_rate: 48000, channels: 2, channel_layout: stereo, bits_per_sample: 0, dmix_mode: -1, ltrt_cmixlev: -1.000000, ltrt_surmixlev: -1.000000, loro_cmixlev: -1.000000, loro_surmixlev: -1.000000, id: 0xc8, r_frame_rate: 0/0, avg_frame_rate: 0/0, time_base: 1/90000, start_pts: 36000, start_time: 0.400000, duration_ts: 60462720, duration: 671.808000, bit_rate: 192000,

Stream 1, PID: 100 [0x64], Type: video ←
Format: H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
Profile: High
Dimensions: 1280x720, Coded: 1280x720
DAR: 16:9, Pixel Format: yuv420p
Frame Rate: 30/1

All Attributes: index: 1, codec_name: h264, codec_long_name: H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10, profile: High, codec_type: video, codec_time_base: 1/60, codec_tag_string: [27][0][0][0], codec_tag: 0x001b, width: 1280, height: 720, coded_width: 1280, coded_height: 720, has_b_frames: 2, sample_aspect_ratio: 1:1, display_aspect_ratio: 16:9, pix_fmt: yuv420p, level: 31, color_range: tv, color_space: bt709, color_transfer: bt709, chroma_location: left, refs: 4, is_avc: 0, nal_length_size: 0, id: 0x64, r_frame_rate: 30/1, avg_frame_rate: 30/1, time_base: 1/90000, start_pts: 42444, start_time: 0.471600, duration_ts: 60462000, duration: 671.800000, bits_per_raw_sample: 8,

OK



DIRECTV Management Control System

Location: Chataeux

Logged in as: mcsadmin | [Administrator Settings](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Commands: Groups: Defaults: Channel Lists:

Commands: Last Updated: 8/9/2019 1:53:44 PM

Room [PMS ID]	RID	IP	Signal	Version	Model	M	DS			Active
<input type="checkbox"/> All						<input type="button" value="Refresh"/>	<input type="button" value="Refresh"/>			255/255
<input type="checkbox"/> Unassigned										
<input type="checkbox"/> Chateaux										
<input type="checkbox"/> Residence club										

Auto-refresh if idle for 10 minutes Total Receiver Count: 255

MCS Server

- Using a thumb drive load the Video onto the desktop of the MCS server. Once its on the computer load the MCS interface using the Firefox browser and navigating to the address 172.16.1.11.
- From here click on Administrator Settings at the top.

Version: 1.98 © DIRECTV 2010-2019

DIRECTV Management Control System

Location: Chataeux Logged in as: mcsadmin | [View Receiver List](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Property Information Admin Receiver List Users Alerts Local Channels **Video Sources** Import/Export Status

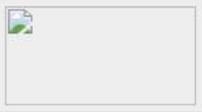
Property Name/Location:

Current Name/Location: Chataeux [Save Property Name](#)

Property Address: 7815 Royal St, Park City, UT 84060 [Save Property Address](#)

Property Logo:

[Upload New Logo](#) [Apply Logo to all Receivers](#)

Current Logo: 

Version: 3.98 © DIRECTV 2010-2011

- From the Administrator Settings page click on the Video Sources tab.

Administrator Settings

RECTV Management Control System

Logged in as: **mcsadmin** | [View Receiver List](#) | [View](#)

[Admin Receiver List](#)

[Users](#)

[Alerts](#)

[Local Channels](#)

[Video Sources](#)

[Import/Export](#)



+ New Video Source

🗑 Delete Checked Sources

Information

Original File Name

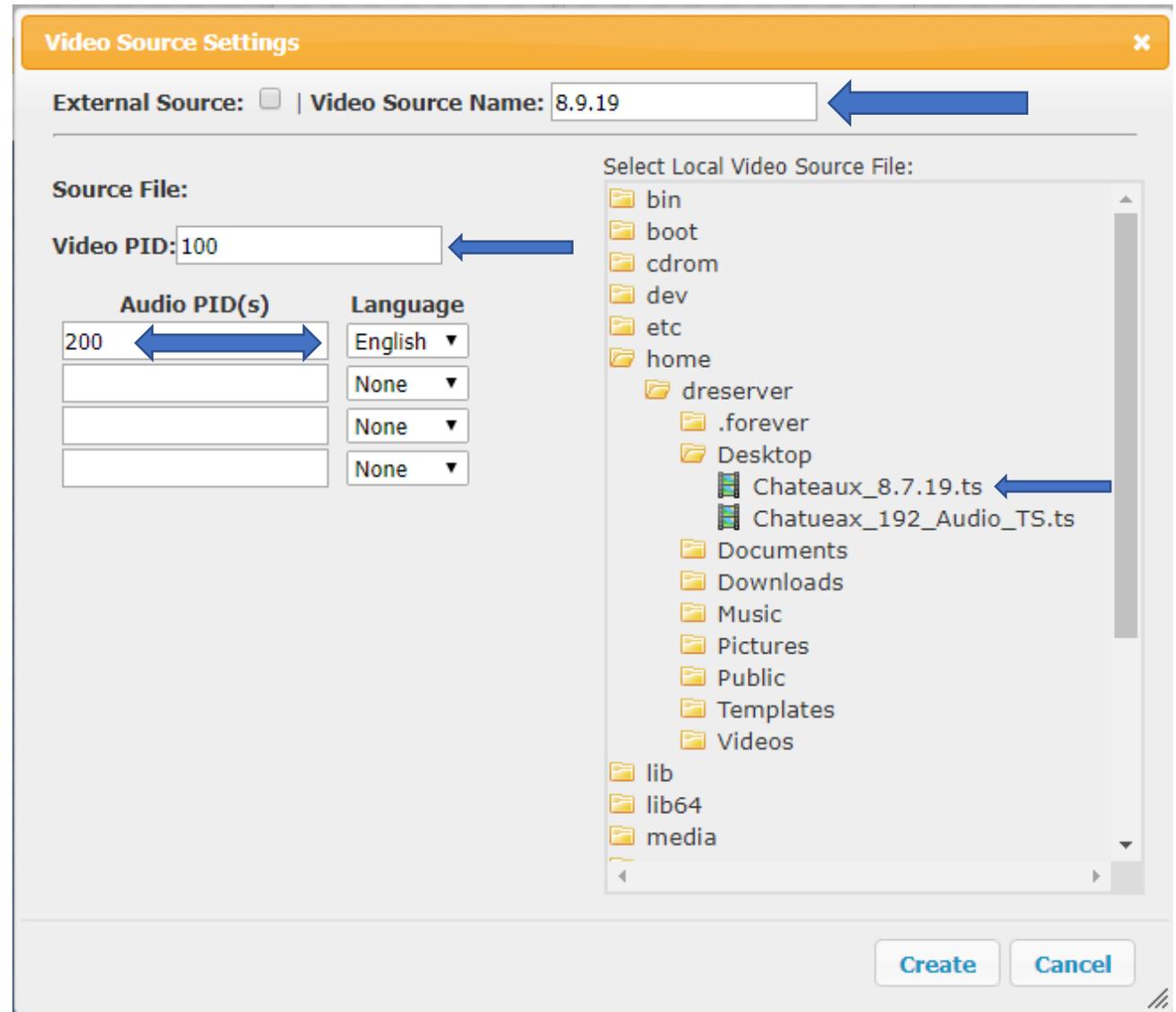
Video Sources

From the Video Sources tab click on the + New Video Source button at the top

Adding a Video Source

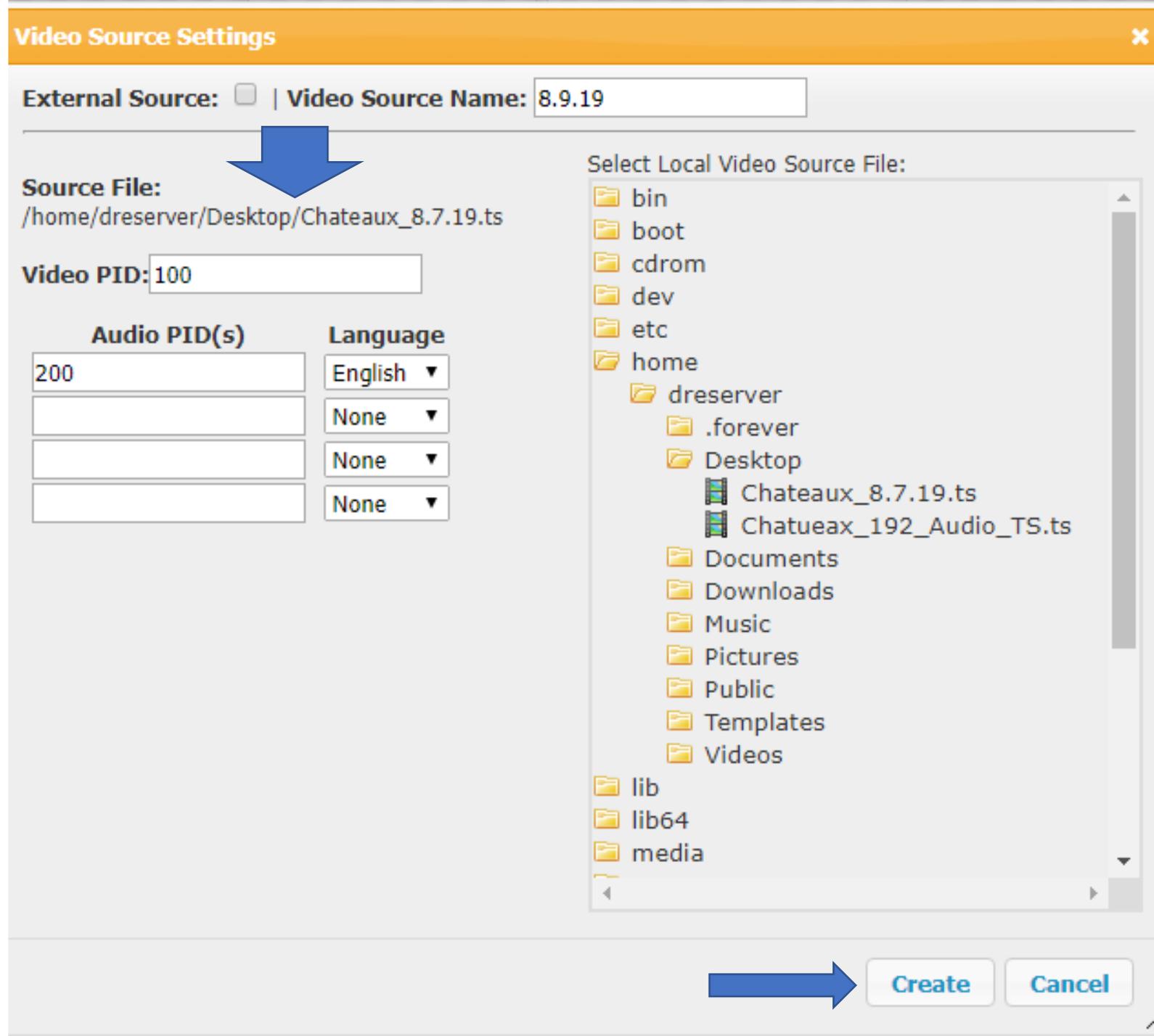
• From here you will need to fill out the following information for the video to play properly.

- Video Source Name
- Video PID
- Audio PID
- Language
- Local Video Source File. You can get to the file by navigating to `home>dreserver>Desktop>(Filename.ts)`



Selecting the video

- Once you have selected the desired video it will appear next to the Source File: Section above the Video PID.
- Once everything has been configured click the Create button at the bottom.



The screenshot shows a 'Video Source Settings' dialog box. At the top, there is a header bar with the title 'Video Source Settings' and a close button. Below the header, there are two fields: 'External Source:' with an unchecked checkbox and 'Video Source Name:' with a text box containing '8.9.19'. A large blue arrow points from the 'Video Source Name' field down to the 'Source File:' field. The 'Source File:' field contains the path '/home/dreserver/Desktop/Chateaux_8.7.19.ts'. Below this is a 'Video PID:' field with the value '100'. There are three rows of 'Audio PID(s)' and 'Language' fields. The first row has '200' and 'English', the second has an empty field and 'None', and the third has an empty field and 'None'. On the right side, there is a file selection pane titled 'Select Local Video Source File:'. It shows a tree view of the file system. The 'home' directory is expanded, showing 'dreserver' and 'Desktop'. Under 'Desktop', two video files are listed: 'Chateaux_8.7.19.ts' and 'Chatueax_192_Audio_TS.ts'. At the bottom of the dialog, there are two buttons: 'Create' and 'Cancel'. A blue arrow points from the left towards the 'Create' button.

External Source: | Video Source Name: 8.9.19

Source File:
/home/dreserver/Desktop/Chateaux_8.7.19.ts

Video PID: 100

Audio PID(s)	Language
200	English
	None
	None

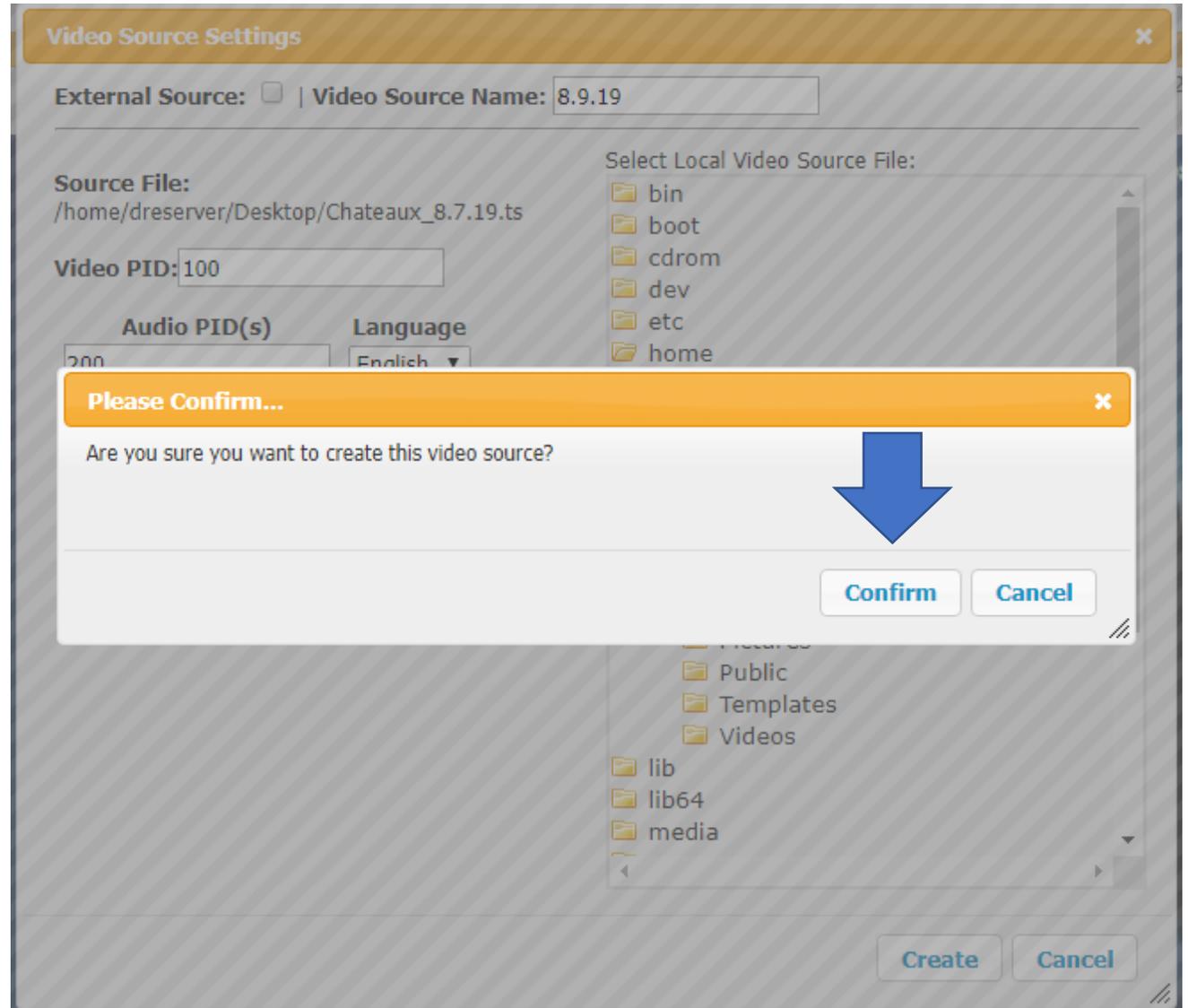
Select Local Video Source File:

- bin
- boot
- cdrom
- dev
- etc
- home
 - dreserver
 - .forever
 - Desktop
 - Chateaux_8.7.19.ts
 - Chatueax_192_Audio_TS.ts
 - Documents
 - Downloads
 - Music
 - Pictures
 - Public
 - Templates
 - Videos
- lib
- lib64
- media

Create Cancel

Confirming the Creation

- Once you click Create you will be prompted to confirm that you want to create the content. Click Confirm and the video will be loaded into the MCS.



Verify the
File loaded
Properly



DIRECTV

DIRECTV Management Control System

Location: Chataeux | Logged in as: mcsadmin | [View Receiver List](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Property Information | Admin Receiver List | Users | Alerts | Local Channels | **Video Sources** | Import/Export | Status

+ New Video Source | Delete Checked Sources

✓	Name	Information	Original File Name	File Size
<input type="checkbox"/>	8.9.19	Source ID: 9, V: 100, A1: 200 en,	Chataeux_8.7.19.ts	50,722,964 bytes

Version: 3.98 © DIRECTV 2010-2018

- Once the channel has been added you can verify that it did so properly by checking the file size. If the file size reflect 0 then there is a problem with the upload. Make sure there are no spaces in the file name or you will have this problem.
- Once the video has been loaded you will need to navigate to the Local Channels tab to assign the video a channel to be broadcast on.

Local Channels Tab

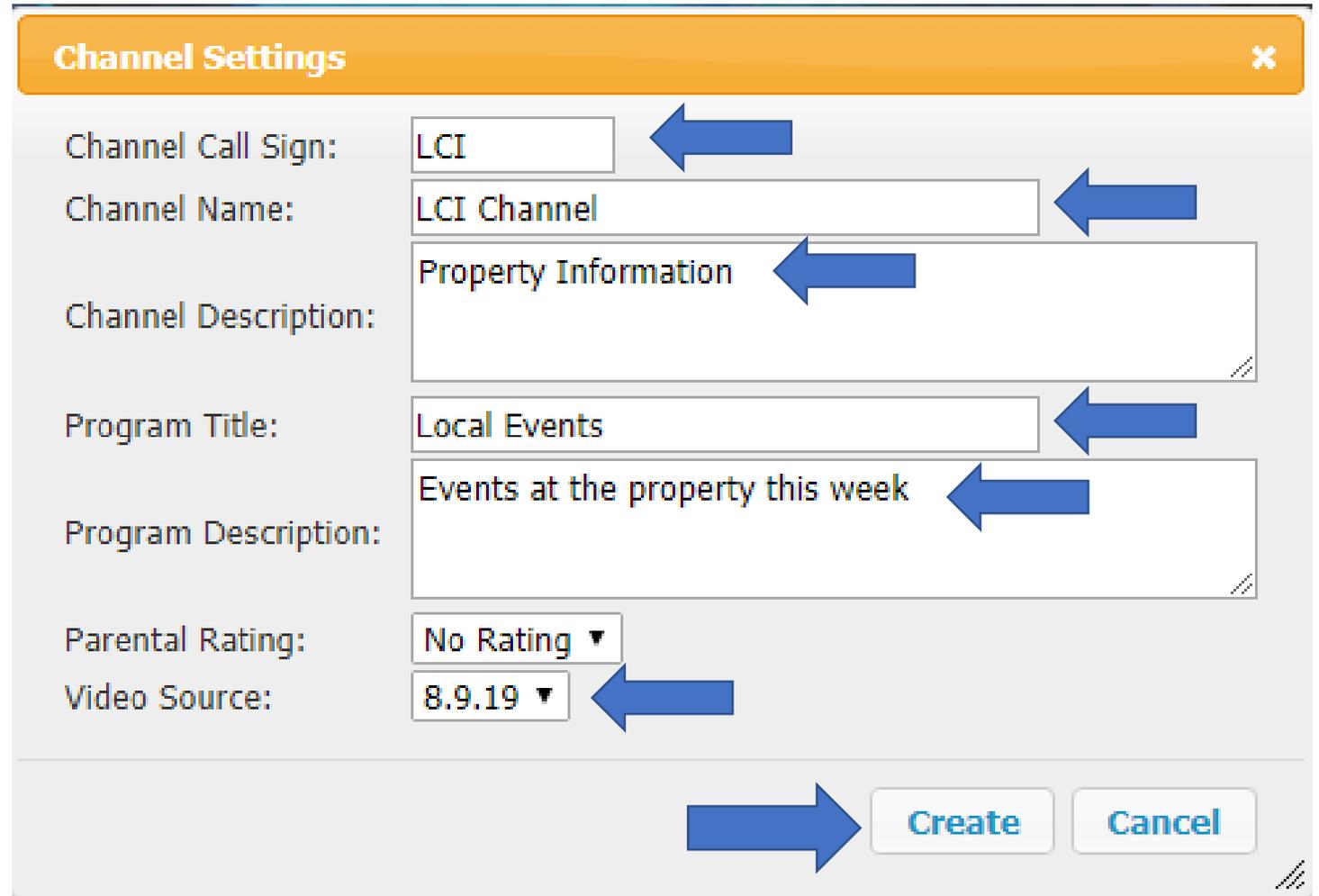


The screenshot displays the DIRECTV Management Control System interface. At the top left is the DIRECTV logo. The main title is "DIRECTV Management Control System". Below the title, the location is "Chataeux" and the user is logged in as "mcsadmin". Navigation links include "View Receiver List", "View Logs", "Change Password", and "Log Out". A horizontal menu contains several tabs: "Property Information", "Admin Receiver List", "Users", "Alerts", "Local Channels" (highlighted in orange), "Video Sources", "Import/Export", and "Status". Below the menu is a toolbar with five buttons: "+ New Channel", "Delete Checked Channels", "Set Channel Numbers", "Refresh Channel Guide", and "Restart All Videos". A blue arrow points to the "+ New Channel" button. Below the toolbar is a table header with columns: "C", "✓", "Channel Number", "Channel Name", "Channel Description", and "Video Source".

- Once you are on the Local Channels Tab you will need to click on the + New Channel button on the top left side of the screen.

Channel Settings

- Once the Channel Settings window is up you will need to put something in every field
- After all of the information has been entered you will need to use the drop down window next to Video Source: and select the uploaded video file.
- When everything is the way the property wants it click the create button



The screenshot shows a 'Channel Settings' dialog box with the following fields and values:

Channel Call Sign:	LCI
Channel Name:	LCI Channel
Channel Description:	Property Information
Program Title:	Local Events
Program Description:	Events at the property this week
Parental Rating:	No Rating
Video Source:	8.9.19

At the bottom right, there are two buttons: 'Create' and 'Cancel'. A large blue arrow points to the 'Create' button.

Setting a Channel Number

After you have created the channel you will need to assign it a channel number.

Using the drop down windows select the desired channel number

Check the box next to the channel

Click the Set Channel Numbers button at the top

Once the channel number has been set you should get a % to the left of the channel indicating the CPU usage that the channel is utilizing.

Once the channel is loaded click on the View Receiver List link at the top.



DIRECTV Management Control System

Location: Chataeux | Logged in as: mcsadmin | [View Receiver List](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Property Information | Admin Receiver List | Users | Alerts | **Local Channels** | Video Sources | Import/Export | Status

+ New Channel | Delete Checked Channels | **Set Channel Numbers** | Refresh Channel Guide | Restart All Videos

C	✓	Channel Number	Channel Name	Channel Description	Video Source
0.7%	<input checked="" type="checkbox"/>	1	Real Estate	Available Real Estate	8.9.19

Version: 3.98 © DIRECTV 2010-2018

Adding the channel to the Guide

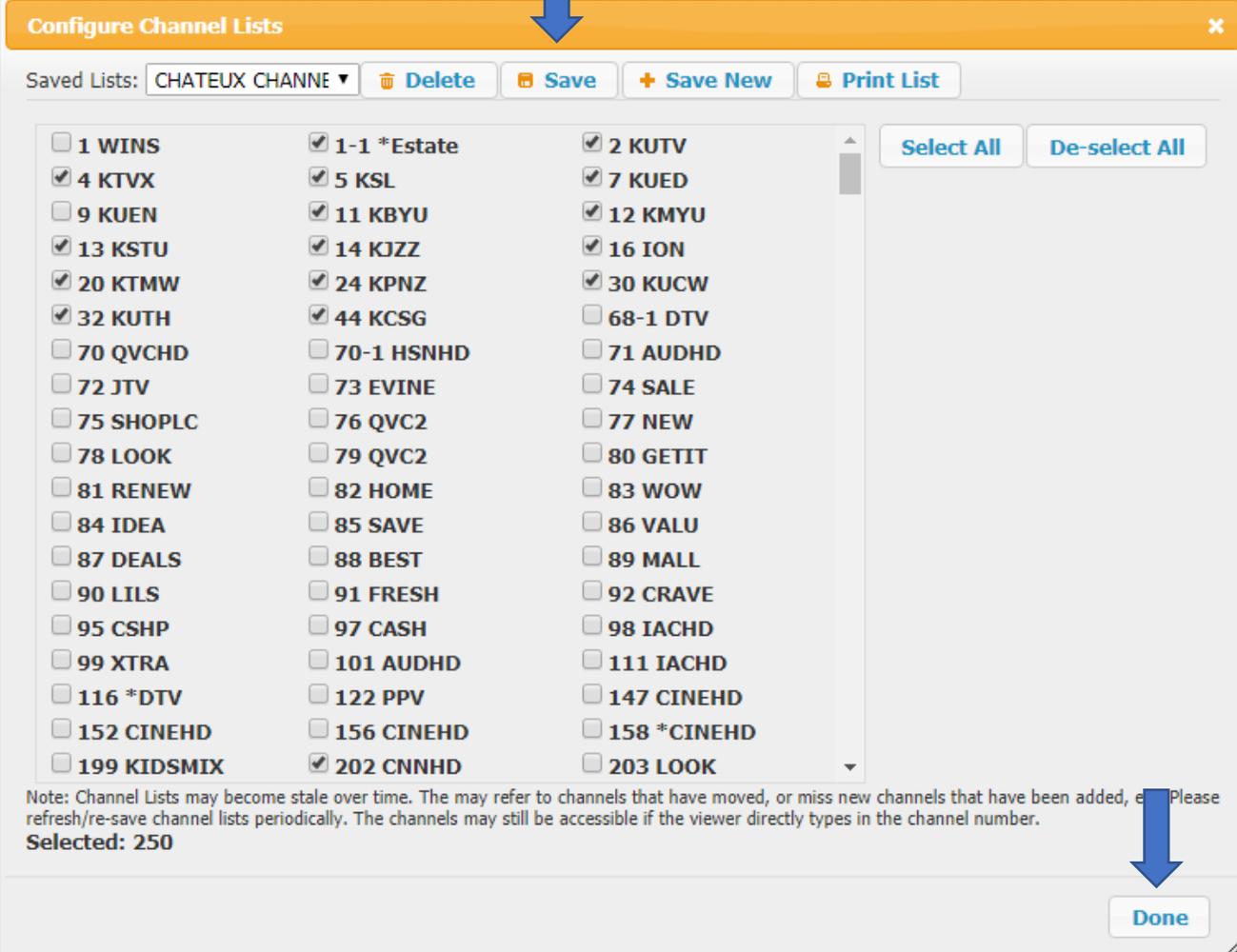
- From the home screen we will need to add the channel to the Channel Lists. Click on the double boxes and the channel list will load
- If the added channel does not appear close the window and wait a few minutes then try again.

The screenshot shows the 'Configure Channel Lists' interface. At the top, there is a title bar 'Configure Channel Lists' and a toolbar with buttons for 'Delete', 'Save', 'Save New', and 'Print List'. Below the toolbar, there is a dropdown menu for 'Selected Lists' currently set to 'None'. The main area contains a list of channels, each with a checkbox and a label. A blue arrow points to the checkbox for '1-1 *Estate'. The channels are arranged in three columns. On the right side, there are buttons for 'Select All' and 'De-select All'. At the bottom, there is a note: 'Channel Lists may become stale over time. They may refer to channels that have moved, or miss new channels that have been added, refresh/re-save channel lists periodically. The channels may still be accessible if the viewer directly types in the channel number. Selected: 0'.

Channel Label	Channel Label	Channel Label
<input type="checkbox"/> 1 WINS	<input type="checkbox"/> 1-1 *Estate	<input type="checkbox"/> 2 KUTV
<input type="checkbox"/> 4 KTVX	<input type="checkbox"/> 5 KSL	<input type="checkbox"/> 7 KUED
<input type="checkbox"/> 9 KUEN	<input type="checkbox"/> 11 KBYU	<input type="checkbox"/> 12 KMYU
<input type="checkbox"/> 13 KSTU	<input type="checkbox"/> 14 KJZZ	<input type="checkbox"/> 16 ION
<input type="checkbox"/> 20 KTMW	<input type="checkbox"/> 24 KPNZ	<input type="checkbox"/> 30 KUCW
<input type="checkbox"/> 32 KUTH	<input type="checkbox"/> 44 KCSG	<input type="checkbox"/> 68-1 DTV
<input type="checkbox"/> 70 QVCHD	<input type="checkbox"/> 70-1 HSNHD	<input type="checkbox"/> 71 AUDHD
<input type="checkbox"/> 72 JTV	<input type="checkbox"/> 73 EVINE	<input type="checkbox"/> 74 SALE
<input type="checkbox"/> 75 SHOPLC	<input type="checkbox"/> 76 QVC2	<input type="checkbox"/> 77 NEW
<input type="checkbox"/> 78 LOOK	<input type="checkbox"/> 79 QVC2	<input type="checkbox"/> 80 GETIT
<input type="checkbox"/> 81 RENEW	<input type="checkbox"/> 82 HOME	<input type="checkbox"/> 83 WOW
<input type="checkbox"/> 84 IDEA	<input type="checkbox"/> 85 SAVE	<input type="checkbox"/> 86 VALU
<input type="checkbox"/> 87 DEALS	<input type="checkbox"/> 88 BEST	<input type="checkbox"/> 89 MALL
<input type="checkbox"/> 90 LILS	<input type="checkbox"/> 91 FRESH	<input type="checkbox"/> 92 CRAVE
<input type="checkbox"/> 95 CSHP	<input type="checkbox"/> 97 CASH	<input type="checkbox"/> 98 IACHD
<input type="checkbox"/> 99 XTRA	<input type="checkbox"/> 101 AUDHD	<input type="checkbox"/> 111 IACHD
<input type="checkbox"/> 116 *DTV	<input type="checkbox"/> 122 PPV	<input type="checkbox"/> 147 CINEHD
<input type="checkbox"/> 152 CINEHD	<input type="checkbox"/> 156 CINEHD	<input type="checkbox"/> 158 *CINEHD
<input type="checkbox"/> 199 KIDSMIX	<input type="checkbox"/> 202 CNNHD	<input type="checkbox"/> 203 LOOK

Creating a Channel List

- Once the channel does appear you will need to create a channel list including all channels that the property subscribes to as well as the channel you added.
- Once you have created the list click the Save button at the top and then click Done at the bottom.



Configure Channel Lists

Saved Lists: CHATEUX CHANNE Delete Save + Save New Print List

<input type="checkbox"/> 1 WINS	<input checked="" type="checkbox"/> 1-1 *Estate	<input checked="" type="checkbox"/> 2 KUTV
<input checked="" type="checkbox"/> 4 KTVX	<input checked="" type="checkbox"/> 5 KSL	<input checked="" type="checkbox"/> 7 KUED
<input type="checkbox"/> 9 KUEN	<input checked="" type="checkbox"/> 11 KBYU	<input checked="" type="checkbox"/> 12 KMYU
<input checked="" type="checkbox"/> 13 KSTU	<input checked="" type="checkbox"/> 14 KJZZ	<input checked="" type="checkbox"/> 16 ION
<input checked="" type="checkbox"/> 20 KTMW	<input checked="" type="checkbox"/> 24 KPNZ	<input checked="" type="checkbox"/> 30 KUCW
<input checked="" type="checkbox"/> 32 KUTH	<input checked="" type="checkbox"/> 44 KCSG	<input type="checkbox"/> 68-1 DTV
<input type="checkbox"/> 70 QVCHD	<input type="checkbox"/> 70-1 HSNHD	<input type="checkbox"/> 71 AUDHD
<input type="checkbox"/> 72 JTV	<input type="checkbox"/> 73 EVINE	<input type="checkbox"/> 74 SALE
<input type="checkbox"/> 75 SHOPLC	<input type="checkbox"/> 76 QVC2	<input type="checkbox"/> 77 NEW
<input type="checkbox"/> 78 LOOK	<input type="checkbox"/> 79 QVC2	<input type="checkbox"/> 80 GETIT
<input type="checkbox"/> 81 RENEW	<input type="checkbox"/> 82 HOME	<input type="checkbox"/> 83 WOW
<input type="checkbox"/> 84 IDEA	<input type="checkbox"/> 85 SAVE	<input type="checkbox"/> 86 VALU
<input type="checkbox"/> 87 DEALS	<input type="checkbox"/> 88 BEST	<input type="checkbox"/> 89 MALL
<input type="checkbox"/> 90 LILS	<input type="checkbox"/> 91 FRESH	<input type="checkbox"/> 92 CRAVE
<input type="checkbox"/> 95 CSHP	<input type="checkbox"/> 97 CASH	<input type="checkbox"/> 98 IACHD
<input type="checkbox"/> 99 XTRA	<input type="checkbox"/> 101 AUDHD	<input type="checkbox"/> 111 IACHD
<input type="checkbox"/> 116 *DTV	<input type="checkbox"/> 122 PPV	<input type="checkbox"/> 147 CINEHD
<input type="checkbox"/> 152 CINEHD	<input type="checkbox"/> 156 CINEHD	<input type="checkbox"/> 158 *CINEHD
<input type="checkbox"/> 199 KIDSMIX	<input checked="" type="checkbox"/> 202 CNNHD	<input type="checkbox"/> 203 LOOK

Note: Channel Lists may become stale over time. They may refer to channels that have moved, or miss new channels that have been added, etc. Please refresh/re-save channel lists periodically. The channels may still be accessible if the viewer directly types in the channel number.

Selected: 250

Done

Sending the Channel Lists to the Receivers

Now that we have the Channel List created we will need to send it to the receivers.

Click the drop down window under Channel Lists and select the created list.

Then select the check box next to All to select all receivers on the system.

Click Apply under Channel Lists and the list will be sent out adding the LCI channel to the guide.

The screenshot displays the DIRECTV Management Control System interface. At the top, the DIRECTV logo is on the left, and the title "DIRECTV Management Control System" is in the center. Below the title, the location is "Chataeux" and the user is logged in as "mcsadmin". Navigation links for "Administrator Settings", "View Logs", "Change Password", and "Log Out" are visible.

The main interface is divided into several sections:

- Commands:** Includes "Check-In", "Check-Out", and "Reset Defaults" buttons.
- Groups:** A dropdown menu with "Select" and "Assign" buttons.
- Defaults:** A dropdown menu with "Select" and "Apply" buttons.
- Channel Lists:** A dropdown menu with "Select" and "Apply" buttons. A blue arrow points to this dropdown, and its menu is open, showing "All Channels List" and "CHATEUX CHANNELS".

Below these sections is a table with the following columns: Room [PMS ID], RID, IP, Signal, Version, Mod, M, DS, and Active. The table contains one row for "All" receivers, which is selected (checked). Below the table, there is an "Auto-refresh if idle for 10 minutes" indicator and a "Total Receiver Count: 256" status. The version "Version: 3.98 © DIRECTV 2010-2018" is shown at the bottom right.

Verify the Channel

- Verify that the channel you have loaded and added to the TV's is playing properly. It may take a few minutes before the channel shows up on the guide and allows you to change to it.

