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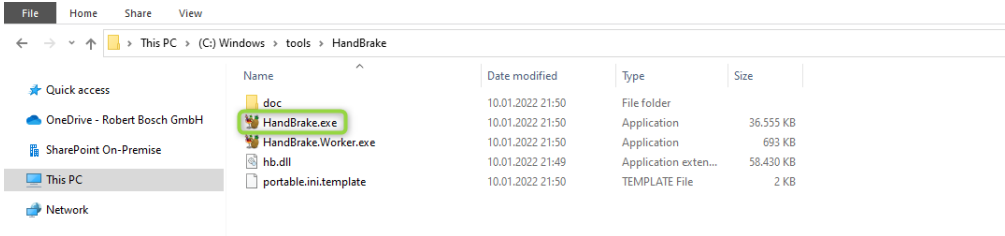
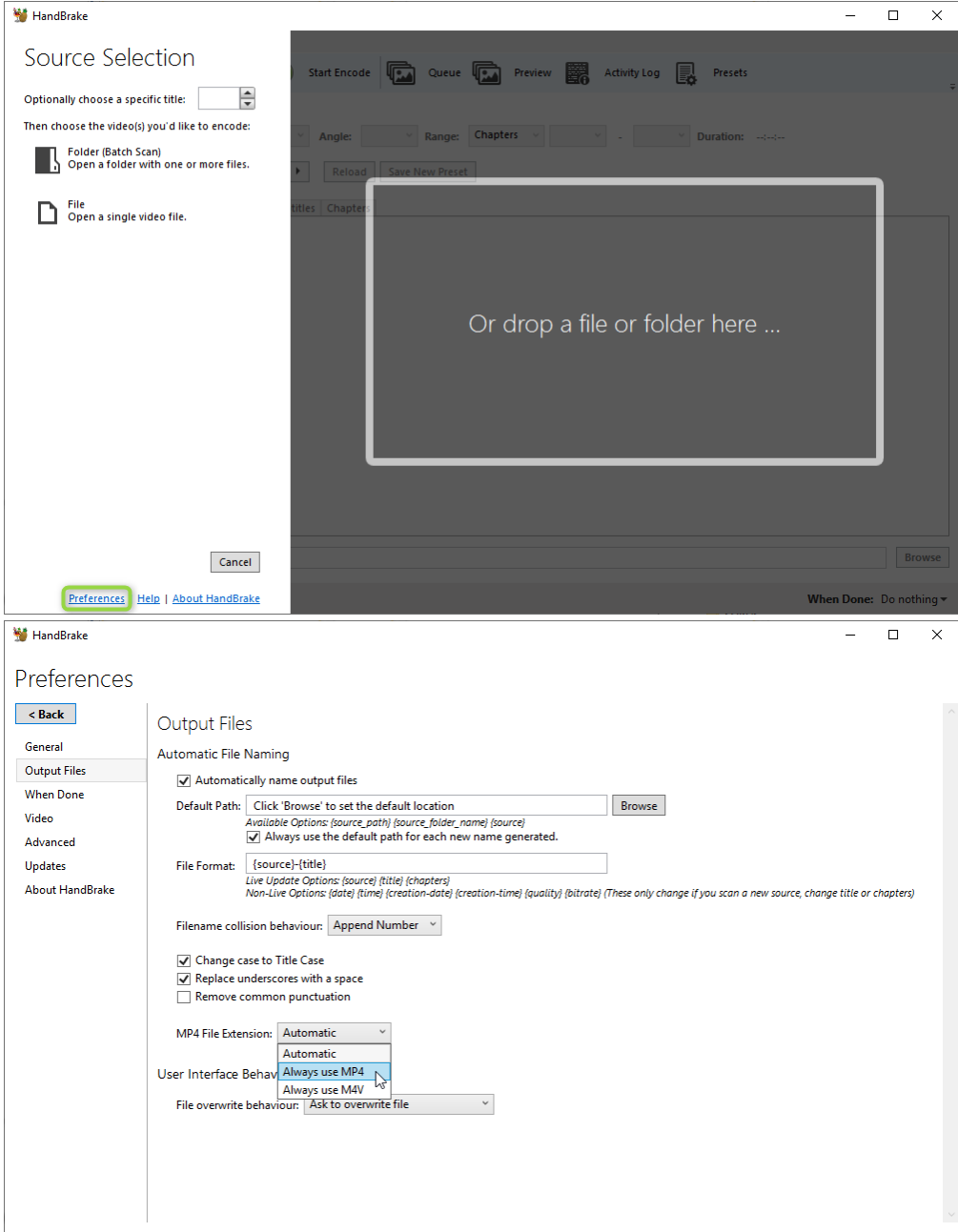
## Media format conversion guideline (Tool: HandBrake)

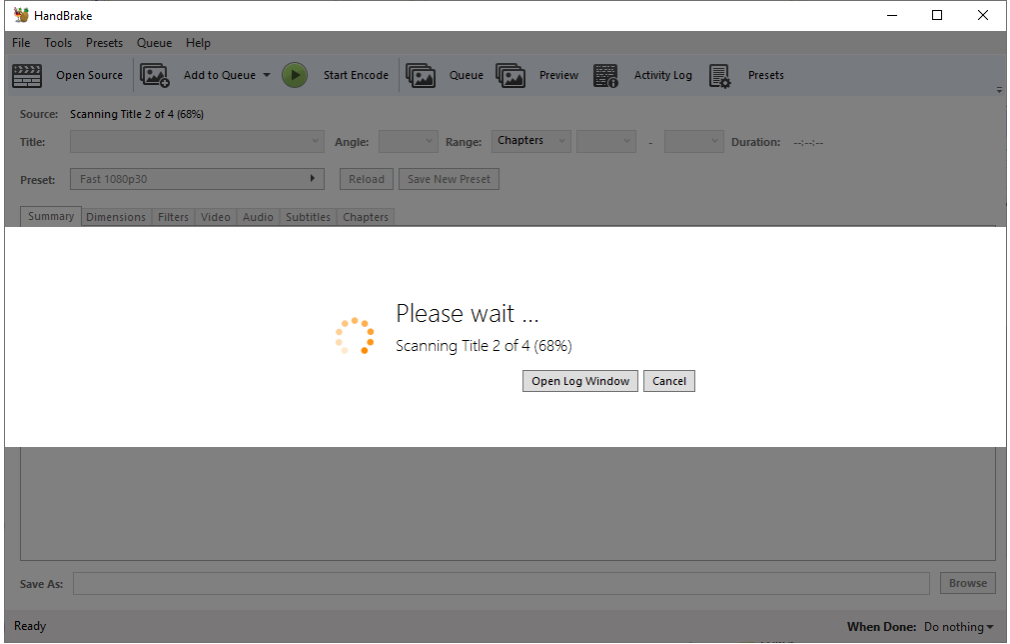
Author: CVO/PRM-CT  
Date: 19-Jul-2022

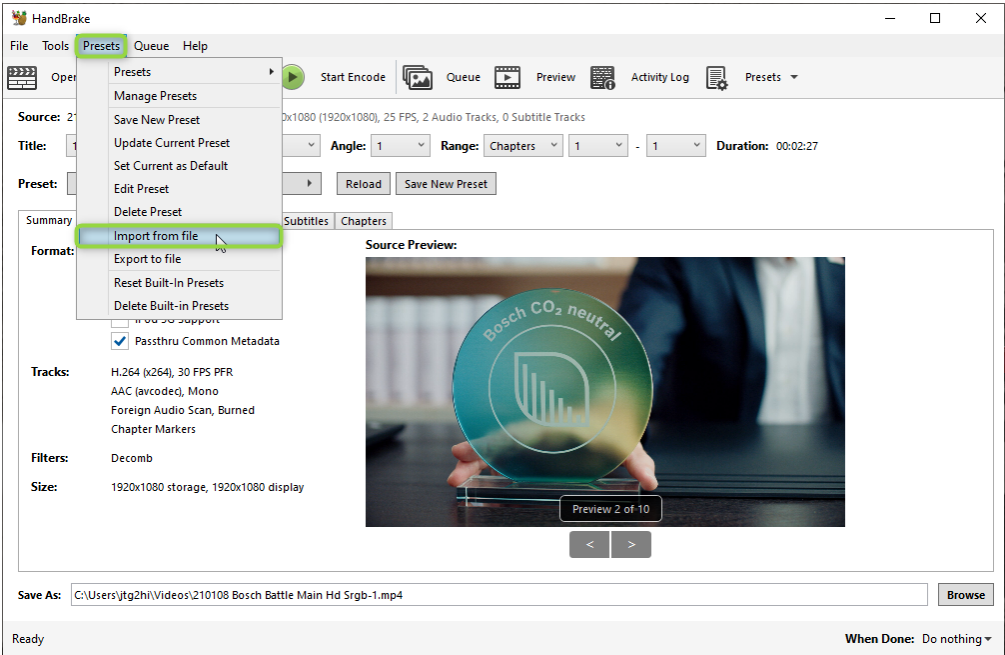
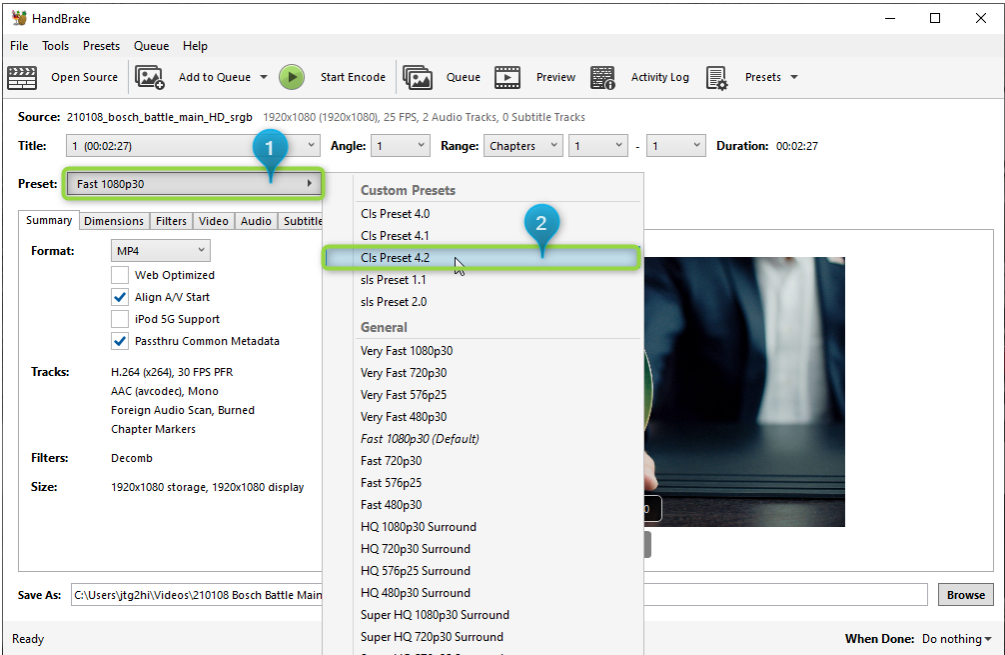
Due to hardware and performance restrictions, devices of the Coach Infotainment series (CIs) / smartInfotainment series (sls) are unable to transcode a variety of video file formats available on the market. Therefore the multimedia must be pre-processed into a suitable format.

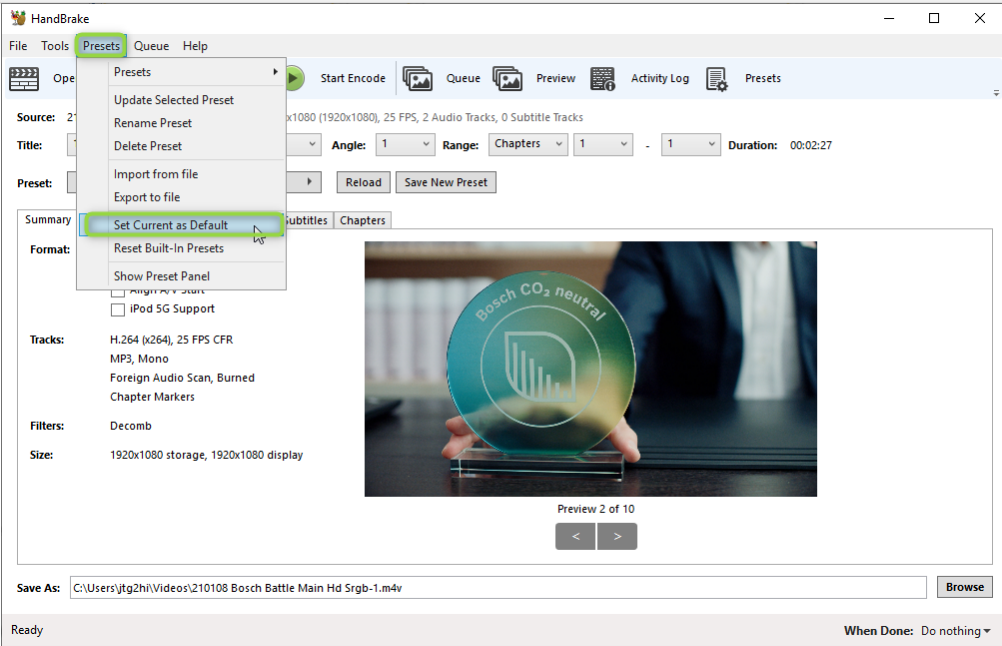
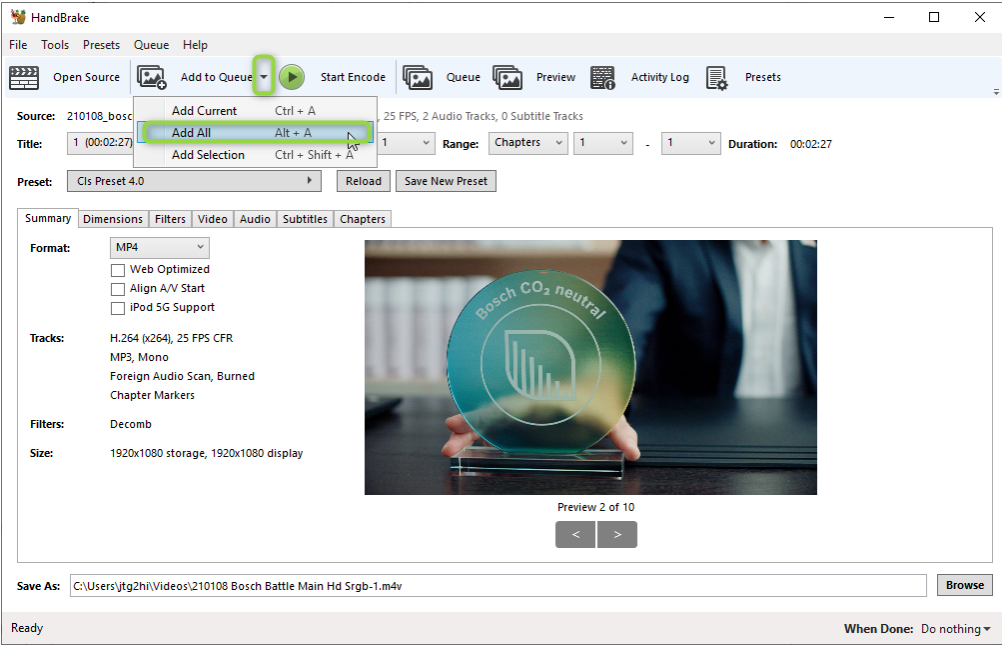

Goal of the step-by-step guideline is to re-encode video files of any quality (e.g. 4K resolution) into a suitable, compatible format for playback within the CIs / sls.

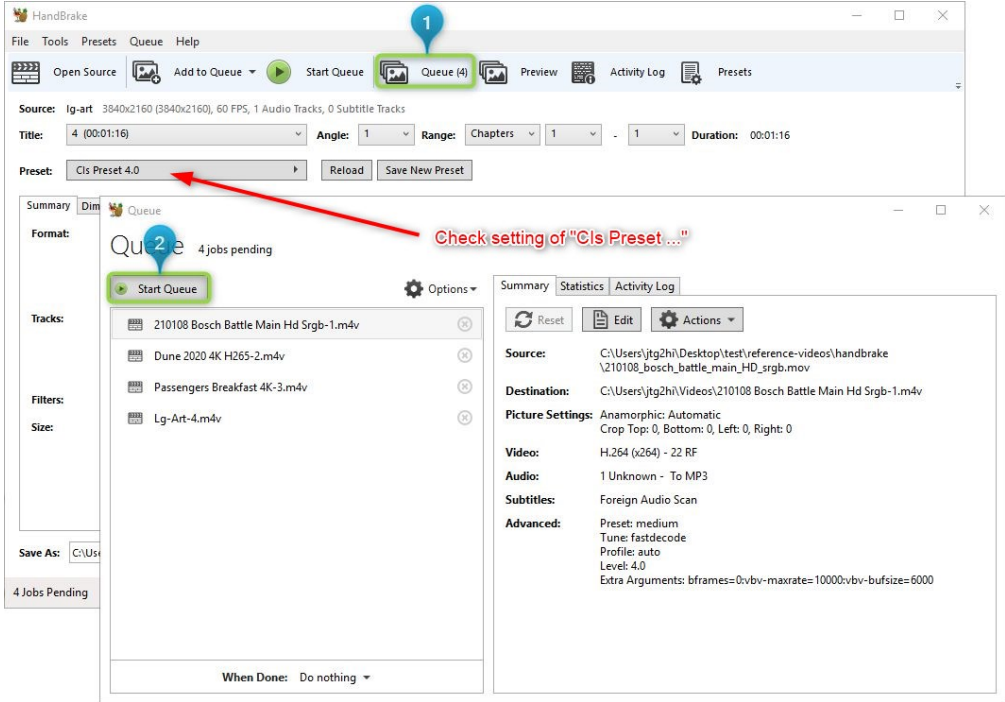
Step	Name	Description
1.1	Download Instructions & Conversion Preset File	<p>Go to <a href="https://www.bosch-professional-systems.com">https://www.bosch-professional-systems.com</a> and download the media format conversion package relevant for your product platform:</p> <ul style="list-style-type: none"> <li>• <a href="#">Coach Infotainment series (CIs)</a></li> <li>• <a href="#">smartInfotainment series (sls)</a></li> </ul> <p>The instructions are provided in *.pdf format and the conversion preset file in *.json format.</p> <p>Use a modern operating system (e.g. Windows 8.1+) or <a href="#">7-Zip</a> to extract the *.zip file.</p> <p>Use a <a href="#">modern web browser</a> or the <a href="#">Adobe Acrobat Reader</a> to open the *.pdf file.</p>
1.2	Download, Install or Extract HandBrake	<p>Please follow the download and installation guide provided by the developers of HandBrake: <a href="https://handbrake.fr/docs/en/latest/get-handbrake/download-and-install.html">https://handbrake.fr/docs/en/latest/get-handbrake/download-and-install.html</a></p> <p>Go to <a href="https://handbrake.fr/downloads.php">https://handbrake.fr/downloads.php</a> and download the version of HandBrake relevant for your platform.</p>  <p>For Windows, preferably use the <b>64 bit Portable Zip</b>. This version will also run directly from an USB stick, without an installation.</p>

Step	Name	Description
2.1	Run HandBrake	<p>Go to your installation directory (e.g. C:\Program Files\HandBrake) and select <b>HandBrake.exe</b> to run the application.</p> 
2.2	HandBrake Preferences	<p>Go to "Tools" &gt;&gt; "Preferences" &gt;&gt; "Output Files" and set "MP4 File Extension" to "Always use MP4". Please use the "&lt; Back" button to return to the start screen.</p> 

Step	Name	Description
3	HandBrake Source Selection	<p>Use one of the various variants to select files for conversion.</p> <p>The fastest approach is to put all files for conversion into a single directory and do a "Folder (Batch Scan)". Handbrake will take some time to pre-analyse the files regarding their encoder parameters and to generate preview images.</p> 

Step	Name	Description
4	HandBrake Preset Selection	<p>Import the conversion preset downloaded at step 1.</p>  <p>The screenshot shows the HandBrake application window. The 'Presets' menu is open, and 'Import from file' is highlighted. The main interface shows the source video '210108_bosch_battle_main_hd_srgb' and various settings like Format (MP4), Tracks, and Filters.</p> <p>Select the latest conversion preset downloaded at step 2.</p>  <p>The screenshot shows the HandBrake application window with the 'Custom Presets' list open. 'Cis Preset 4.2' is highlighted. The main interface shows the source video '210108_bosch_battle_main_hd_srgb' and various settings like Format (MP4), Tracks, and Filters.</p> <p>For simplicity the next time you are going to prepare files for CIs/sls compatibility: Make the conversion preset relevant to your use case to your default preset.</p>

Step	Name	Description
		 <p>The screenshot shows the HandBrake application window. The 'Presets' menu is open, and the option 'Set Current as Default' is highlighted with a green box. The main interface shows the 'Summary' tab with various settings like Format (H.264), Tracks (25 FPS CFR), and Filters (Decomb). A preview window shows a video frame with a 'Bosch CO<sub>2</sub> neutral' logo.</p>
5	HandBrake Queue	<p>To use HandBrake for file conversion, you will have to fill its queue with work items for each of your files.</p> <p>The fastest approach is to use the "Add All" function. For every file pre-loaded on source selection (step 4) an entry to convert the file according to the current preset will be created:</p>  <p>The screenshot shows the HandBrake application window. The 'Add to Queue' menu is open, and the option 'Add All' is highlighted with a green box. The main interface shows the 'Summary' tab with various settings like Format (MP4), Tracks (25 FPS CFR), and Filters (Decomb). A preview window shows a video frame with a 'Bosch CO<sub>2</sub> neutral' logo.</p> <p>If everything worked, you will see that all of your files have been added to the queue:</p>  <p>The screenshot shows the HandBrake application window. The 'Queue' tab is selected, and it shows 4 items added to the queue. The 'Add to Queue' menu is still open, and the 'Add All' option is highlighted.</p>

Step	Name	Description
6	Media Format Conversion	<p>Because the conversion process may take a lot of time per file, it is recommended to open the "Queue" (1) window and start the encoding process from there via "Start Queue" (2). Every pending job inside the queue will be executed sequentially.</p>  <p>The screenshot shows the HandBrake Queue window. The main window has a menu bar (File, Tools, Presets, Queue, Help) and a toolbar with buttons: Open Source, Add to Queue, Start Queue, Queue (4), Preview, Activity Log, and Presets. The Queue button is highlighted with a green box and a blue circle with the number 1. Below the toolbar, the Source is 'lg-art' (3840x2160, 60 FPS, 1 Audio Tracks, 0 Subtitle Tracks). The Title is '4 (00:01:16)', Angle is '1', Range is 'Chapters', and Duration is '00:01:16'. The Preset is 'Cis Preset 4.0'. A red arrow points from the 'Cis Preset 4.0' text to the Queue window. The Queue window has a title bar 'Queue' and a toolbar with 'Start Queue' (highlighted with a green box and a blue circle with the number 2), Options, Summary, Statistics, and Activity Log. The Queue window shows 4 jobs pending. The first job is '210108 Bosch Battle Main Hd Srgb-1.m4v'. The other jobs are 'Dune 2020 4K H265-2.m4v', 'Passengers Breakfast 4K-3.m4v', and 'Lg-Art-4.m4v'. The Queue window also shows the 'When Done' dropdown set to 'Do nothing'. A red text annotation 'Check setting of "Cis Preset..."' points to the 'Cis Preset 4.0' text in the main window.</p> <p>By default, the output will be placed into your users profiles video directory (e.g. %USERPROFILE%\Videos).</p>