Music Media Helper Documentation

Tools for managing and converting Audio and Music Video media files and Playlists

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Requirements:
- Windows 10, 8 and 7
- Microsoft .NET 4.6.1 (should already be installed on Windows 10, 8 and 7 PCs with recent Service Packs)
- Internet connection: Required for tagging audio files with data from Musicbrainz and to scrape Concert/Music Videos artwork. Also to update future versions of Music Media Helper.

If you are planning to do lots of media conversion and tagging: a fast hard drive is recommended (SSD is the fastest)

Installing Music Media Helper (MMH):
Install the application from this URL (hosted on a Microsoft Azure server in USA):

https://reva.blob.core.windows.net/mmh/publish.htm

This screen will show you the current version number. Example:

Click: Install
The program installer (Setup.exe) will be downloaded.

NOTE: This file is just a standard Microsoft .NET ‘click once’ application installer. (No viruses or malicious code).
In Google Chrome use the pop-up menu next to the ‘Discard’ button to ‘Keep’ the Setup.exe file. Please use that. When downloaded open the Setup.exe or run it to start the installer & download all required files.

Depending on your browser and Windows version you may get another security warning (again normal for running code from a downloaded file). Here’s the one on Windows 10 after running Setup.exe from Google Chrome:

![Windows protected your PC]

You will need to confirm that Setup.exe is ok to run. With the above dialog click: ‘More Info’ link text with will show more info and give you an option to ‘Run anyway’:

![Windows protected your PC]

The installer (Setup.exe) will now run and download and install the Music Media Help application and add it to your Start menu and also create a short-cut on your desktop.

**Updating Music Media Helper**

From Version 3.3 Music Media Helper automatically checks if there is an updated version and will allow you to update your version. Of course, this will only occur if you have an internet connection (and you have already installed version 3.3 or higher.)
There is a new ‘Check for Updates’ toolbar command on the MMH Launcher dialog which you can use to check if you have the latest version. If a newer version has been published you will see a pop-up asking if you wish to upgrade. If you click ‘Yes’ MMH will auto download and update its changed files, then automatically will re-start MMH. Easy.

**A Note On Music Concert Folders & Files:**

If your music concerts discs are split into individual songs files it is much easier to play specific songs and add specific songs to Playlists etc.

Kodi (and other media players) will show the concert song files and allow users to navigate to them through either their inbuilt file browsers or from their Library views or tablet & smart phone apps (for Kodi remote apps). However, Kodi also requires additional metadata about each music video file stored as XML in an NFO file. MMH will create the NFO files for Kodi automatically if Concerts are stored as per Kodi’s folder requirements.

Kodi expects Music Videos to be stored in a folder structure like this:

```
(Root Concert Folder)\ARTIST - CONCERT NAME
```

**Example:**

```
F:\Concerts\David Gilmour - Remember That Night
```

Please note the dash ‘-’ character between the Artist and Concert/Video Name

For MMH Root Concert Folders can be on any drive accessible from your Windows PC including NAS/Servers.

**IMPORTANT:** This application (MMH) expects all Music Video/Concert Folder names formatted as:

```
ARTIST - CONCERT NAME
```

MMH will also add the Year to NFOs if your concert folder name ends in a bracketed year:

```
Artist - Concert (Year)
```

**HINT:** To allow Kodi to load the concerts just add the Root Concert Folder as a Video Source (Music Video) and set the scrape options to ‘nfo only’

Inside the Concert folder will be your media content:

- One or more Music Video files (MKV, M2TS, VOB, MP4, AVI etc)
- For each Music Video File, one NFO file with same name as Video file (e.g First.mkv and First.nfo)
- Folder.jpg: The concert poster art/cover art image
- Fanart.jpg : Artist Fanart/background image

Music Media Helper will create the NFO, Folder and Fanart jpg files and split a single Concert Video into separate chapters and provides tools to rename the concert chapters with the song titles. (The images scraped from TMDB).
Launcher Dialog:
On start-up MMH shows the tool *Tools Launcher* dialog allowing access to the various Audio and Video tools provided by this application:

![Launcher Dialog](image)

**NOTE:** In Version 3.0 a new ‘Preferences’ menu option was added on the Launcher toolbar that enables users to select their own skin/themes. By default the ‘Office 2016 Black’ skin is enabled (as shown above). You can choose from seven different skins. Some of the screen captures in this document were captured using the default original skin.

**HINT:** To help new users understand each tool’s workflow upon opening a tool window only valid commands and options are enabled or visible. Most often opening a file or selecting multiple files will enable additional commands and options to continue with the current tool.

Each tool’s functionality is explained in the following sections:
Split & Rename Concerts:

Functionality:
This tool enables you to do the following:

- Split an MKV file (with Chapters encoded) into individual MKV files, one file per chapter
- Rename the Chapter files by copying a list of tracks (typically from a website containing a list of songs in the music concert release disc)
- Renaming **also creates NFO files** (very small XML data files used by Kodi. These can be scanned in Kodi’s music video library to load artist and song titles into the music video library and used for playback from the library).

Renaming also has an option to ‘Renumber’ all the new chapter files (prefix each file sequentially to force the chapters to be shown in file browsers in their original concert sequence). Example:

01. First Song Title.mkv
02. Second Song Title.mkv

_HINT:_ There are various applications that will convert a DVD or Blu-ray disc to MKV including MakeMKV. You should ensure the MKV contains chapter information (chapter start times).

_NOTE:_ The chapter files created by MMH will contain the same audio tracks as per the original MKV file. The original MKV file does not get changed in any way.

If your music concert is already split into chapters you can still use the Split & Rename tool to only _Rename_ your files.

Split & Rename Walk-Through:
Splitting a Concert Video file:

In this scenario we will assume you already have a Concert MKV containing the entire concert in a single MKV file.

Firstly, ensure you have created a folder named in this format: ARTIST-CONCERT NAME and you have copied your Concert MKV file into that folder.

Click: ‘Split & Rename Concerts’ from the Launcher dialog. The following dialog appears:
**HINT:** If your Concert Video has already been split into chapters you can use the ‘Add Files from Folder’ command button to load all the files into this dialog.

Click: ‘Split MKV File’ from the top menu

MMH will pop up a file browser dialog for you to select the source MKV file you wish to split:

![File Browser Dialog](image)

**NOTE:** The new output chapter files are saved to the same directory as the original source MKV selected to split.

Select the Concert MKV and click: Open

MMH now splits the selected file into its chapter files – You will see a progress bar showing percentage complete while this task runs.

When the split task is completed the original MKV has now been split into its individual chapter files named in same sequence as the original chapter layout and all the chapter file names are loaded into the *Split & Rename* dialog. If the original MKV file has named chapters they will be loaded as the screenshot below:
**HINT:** You can manually edit the ‘New Name’ value if required.

If there are no named chapters in the original MKV you may end up with ‘New Names’ that do not contain correct Song Titles or they are empty like the next screenshot, in which case you should rename them:
**Renaming the Chapters:**

You can now either:
- Enter the song titles for each chapter manually in the ‘New Name’ column (not recommended)
- Copy and paste all the song titles in a single command (recommended) from the clipboard

**Copying all the Track Titles from the clipboard:**

If you don’t already have a list of all the titles that you can copy, use your favourite web browser, search for your Concert in Google, find a web page that lists the songs, select all the list text and ‘copy’ (CTRL-C) to your clipboard.

If you do have the titles already in a file then open the file, select all the list text and ‘copy’ (CTRL-C) to your clipboard.

**HINT:** Sometimes the published concert Track List does not include the introduction chapter or the credits chapter, so sometimes the number of chapters (hence the number of chapter files) is not the same as the number of track list songs. In this case you may wish to first copy your clipboard selection to a temporary text file and manually add an intro at the beginning and/or credit at the end. You can remove the first and/or last chapters from the Rename dialog’s list by selecting the file and clicking ‘Remove’. Once you have your updated Track List copy that to your clipboard and you are ready to continue.

Now click: ‘Paste from clipboard’ command in the Rename dialog (above)
NOTE: MMH will automatically add a sequence prefix to the New Names imported from the clipboard. So you don’t have to add any numeric prefix. You only need to ensure the song titles are in the correct sequence. MMH will actually remove any leading numbers and renumber them, so if some song titles have leading numbers and some don’t’ MMH will clean up those for you.

At this point the files are not yet renamed; you are just setting the new names you want. You can, of course, manually edit any song title in this dialog too.

NOTE: MMH will automatically check for illegal characters in the proposed new file names (characters that are not allowed in Windows file names). If any exist you will be warned and shown which new filenames need to be edited.

When you have your new names set as you require:

Click: ‘Rename’ button to rename each chapter file to your new names.

If the Renaming is successful you will see a dialog asking if you want to create the NFO files for Kodi:

![Question]

Click: ‘Yes’ if you want to create the NFO files now (recommended)

The NFO files will be created for each video file in concert folder and is formatted like this example:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<musicvideo>
    <track>2</track>
    <title>02. Rock n Roll Train</title>
    <artist>AC/DC</artist>
    <album>Live At River Plate</album>
    <genre>Music Video</genre>
    <year>2009</year>
</musicvideo>
```

This file provides the Kodi Music Video Library with the metadata to group the music videos into Artist and Album and gives Kodi the track sequence (for the albums tracks)

INFO: There is feature ‘Add Chapters to MKV’ to enable users to add chapters to MKV Concerts that don’t already have chapters, and can’t be split in song files.

If you are using Kodi you just need to copy the new (split) MKV files to one of you Music Video source folders and ‘Scan’ its contents into the Kodi Music Video library.
Batch Split MKV Files:

Functionality:
This tool enables you to Split multiple MKV files (with Chapters encoded) into individual MKV files, one file per chapter but unlike the first tool you can select multiple files and each is Split in a batch mode (all at once).

This tool is useful if you have many MKVs to split as you can run unattended. This Tool also gives additional options for using a Temporary Folder for your conversions which is faster if your Source MKV files are stored on a NAS and you have a slow network connection.

This unlike the previous ‘Split and Rename Chapters’ dialogue this ‘Batch Split’ only creates Chapter files. You would need to go back and Rename the chapters using the previous tool once split. Since Splitting an MKV can take time and it does not require any input from a user (apart from selecting the MKVs to Split) this may be useful if you want to split multiple MKVs.

Batch Split Walk-Through:
Splitting Multiple Concert Video files:

In this scenario we will assume you already have a few Concert MKV files containing the entire concerts in single MKV files.

Firstly, ensure each MKV is in its own folder named in this format: ARTIST - CONCERT NAME and you have copied your Concert MKV files into each folder.

Click: ‘Batch Split MKV Files’ from the Launcher dialog. The following dialog appears:

![Batch Split MKV Files into Chapters]

The ‘Add Files’ button allows you to select individual ‘Source’ MKVs to be split

The ‘Add Sub Folders’ button allows you to select a single ‘parent’ folder and MMH will recursively scan all the sub-folders an load all MKV files it finds.

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With either method (above) the MKV files are added to the list for batch splitting and will show the number of chapters found in each MKV file. MMH will not allow you to Split an MKV with 1 or less chapters (for obvious reasons).

You can remove selected MKV files from the list or Clear the list using the appropriate command buttons. MMH will ignore any MKV files with less than 2 chapters.

By default, MMH uses each Source MKV's folder as its working folder.

**NOTE:** You should ensure there is enough spare disk space for the new Chapter files. All the chapters (together) will require the same disc space as the original Source MKV.

To Split all the Source MKVs in the list (that have more than 1 chapter):

Click: Split MKVs

MMH will pop-up a dialogue on completion showing the total time to Split all the selected MKVs. You can experiment with a Temporary Folder (see next section) to see if one of those options will provide better performance, particularly if you are splitting over a network or to a slow USB drive.
**Batch Split Preferences:**
The ‘Preferences’ toolbar menu on the ‘Batch Split MKV’ dialogue allows users to set a Temporary Folder:

This is the default settings:

![Default Settings](image)

Here is a typical user setting:

![User Setting](image)

The fastest method will always be using your fastest (high performance drive, such as an SSD drive). You may need to experiment to find the best set of preferences for your infrastructure (network, drives, processor etc.)
Scrape Concert Folders:

**Functionality:**
This tool enables you to do the following:

- Download the Concert Video Poster/Cover Image
- Download the Concert’s Artist Fanart
- Create NFO files for each video file in the scraped folder (adds files to Kodi’s Music Video library)

The concert’s folder name is used to scrape TMDB website and return images for any releases found. The concert folder should be in the format: ARTIST - CONCERT NAME (Although you can manually edit/enter a new concert name if required or if your folder name is not found in TDMB).

**NOTE:** There is also an option in the ‘Batch Creation Tools’ dialog that runs this single Scrape dialog on all the concert sub-folders recursively which is faster and easier than running this single Scrape dialog manually on each concert folder.

**Scrape Concert Walk-Through:**
Click ‘Scrape Concert Folder’ from the Launcher dialog.

The following dialog appears for you to select an existing concert folder that you want to grab the release Poster and Fanart for.

Select your concert folder to scrape, then:

Click: ‘Ok’
MMH will now pop up its ‘Scrape Concert’ dialog:

The Concert Name textbox is used to scrape TMDB. Initially it is set by using the selected folder’s name. If the selected folder is named in the format: ARTIST - CONCERT NAME it is displayed as: ARTIST: CONCERT NAME. In addition any year suffix is removed (it seems TMDB does not use the year).

You can edit the Concert name if you wish (especially if the Scrape does not find a match)

To Scrape:

Click: ‘Scrape’ button

If a match is found, all the matching releases are added to the second list box (on left side):

If there is only one release found, MMH goes ahead and selects it and loads the right tab’s images with Posters and Fanart (as shown in the previous screenshot). If there are multiple releases for the Title you need to select a release to view the images for the selected release.
The next screenshot shows the Fanart tab selected (showing the Fanart):

To save any image to your current concert’s folder:

Click: ‘Save’ at the bottom of any image

**Creating Missing NFOs:**
The ‘Files’ tab displays a list of all your concert folder’s video files and also shows if there is already a matching NFO metadata file for each of the videos:

If there are any NFOs missing then you can use the ‘Save NFOs’ command to create and/or recreate all the NFO files for the current concert folder.

**NOTE:** NFO files are used in Kodi to import Music Video artists, ‘albums’ and tracks into its Music Video library (database) for playback through Kodi’s Music Video user interface (allows searching/grouping by Artist, ‘Album’ and playback of individual ‘tracks’ (or files with a matching NFO file).
NOTE: You can also use the ‘Batch Creation Tools’ (in Launcher) to create NFOs for all sub-folder recursively. Every video file from the selected ‘Source’ folder will have a matching NFO based on its file name and folder name. The Artist and Album tags are found from the folder name in format: **ARTIST – ALBUM NAME (YEAR)**

The Batch Creation Tool basically allows all your music video files to be added to Kodi’d Music Video library without much effort except for having the folder ‘s named as above, then running the batch ‘Create NFOs files for All videos’ option (see next section: Batch Creation Tools)
Batch Creation Tools:

Functionality:
These tools enable you to do the following:

- Batch Scrape all sub-folders under a selected folder to get folder and fanart for Concerts
- Batch Create an M3U Playlist file for every concert sub-folder, each concert has a single Playlist with all songs
- Batch Create NFO files for all sub-folders under a selected folder for all music video/concert files

IMPORTANT: The NFO creation feature expects all Music Concert Folders to be named with the format:
ARTIST - CONCERT NAME

A NFO file provides the Kodi Music Video Library with the metadata to group the music videos into Artist and ‘Album’ and gives Kodi the track sequence (for the albums tracks)

M3U Playlists are supported by Kodi and many other media players. For Kodi, if you copy an M3U playlist to either of these Kodi Userdata folders you can play video playlist:
- UserData\Playlists\Video
- UserData\Playlists\Mixed

Batch Creation Walk-Through:
Click: ‘Batch Creation Tools’ from the Launcher dialog.

This displays the Music Concert Batch Tools dialog:

Select a ‘Source Directory’. This is the Root Folder for you Music Concerts. The processing will occur on ALL sub-folders from the selected Source Directory (Parent folder).

Click: ‘Browse’ and select a Root folder for your Music Concerts

Once a Source Directory is selected, select one of the radio button batch options:
• Scrape Concert\Music Video sub-folders (this is semi-automated)
• Create M3U Playlists for all Concert\Music Video sub-folders
• Create NFO files for all Concert\Music Videos in sub-folders

**NOTE:** You should also set your Playlist path naming Preferences from this dialog (see later in this document) before using the 'Create M3U Playlist for all' option.

If you are using Kodi there is an option to set the Kodi Userdata Folder path. If this is set the after all the Playlist files have been created MMH will copy all those files to the folder selected like the following screenshot:

![Preferences dialog](image)

**NOTE:** If you are using another device for Kodi (e.g. CoreELEC or LibreELEC device) you may have to manually enter the Kodi UserData path if your Windows Explorer doesn’t display it in your ‘Network’ devices

**NOTE:** The folder you select should be either the ‘..\userdata\playlists\video’ or ‘..\userdata\playlists\mixed’ folder on your Kodi device.

To go ahead and create all your Concert or Music Video playlists:

Click: ‘Start Processing’

MMH will recursively process every sub-folder from the selected Source Directory creating either:

• Scrape Concert cover (folder) and fanart for each Concert folder
• Create an M3U Playlist for each Concert Folder (always saved into the Source Directory – each Playlist is named after the Concert Folder and contains each every concerts video files
• Create an NFO metadata file for every Concert folder’s video files, using the Folder name to set ARTIST and CONCERT NAME (Album in Kodi).

If there is a valid ‘Kodi UserData Folder’ set (and your PC can connect to it), MMH will copy all the Playlists to that folder. There is also an option to delete the created m3u files on the Source after copying to the Kodi folder.
These tools are ideal for users that already have music videos and just want to create NFO files for Kodi and/or M3U playlists to play their music videos.

**Playlist Preferences:**

This dialog sets the music file path format in the saved playlists. The example settings are for a LibreElec/CoreElec (Linux based) Kodi system with music files stored on a NAS/Server):

**NOTE:** For Kodi files on a separate device (not your Windows PC, e.g. a LibreElec/CoreElec Media Player) NAS or Server you can use `advancedsettings.xml` to convert your Windows mapped drive paths to ones used on your Kodi device.

Example: Here is my Kodi advancedsettings.xml nodes for my LibreElec NUC to convert my Windows PC paths created in the Playlist Editor to paths used by my LibreElec Kodi & NAS using Kodi’s pathsubstitution:

```xml
<pathsubstitution>
  <substitute>
    <from>/MediaBackup/Audio Surround/</from>
    <to>nfs://192.168.1.6/volume1/Volume1/MediaBackup/Audio Surround/</to>
  </substitute>
  <substitute>
    <from>/MediaBackup/Music Video/</from>
    <to>nfs://192.168.1.6/volume2/Volume2/MediaBackup/Music Video/</to>
  </substitute>
</pathsubstitution>
```
<from>/MediaBackup/Audio Stereo/</from>
<to>nfs://192.168.1.6/volume1/Volume1/MediaBackup/Audio Stereo/</to>
</substitute>
<substitute>
<from>/MediaBackup/Audio Classical/</from>
<to>nfs://192.168.1.6/volume1/Volume1/MediaBackup/Audio Classical/</to>
</substitute>
</pathsubstitution>
Create/Edit Chapters in MKV:

Functionality:
This tool enables you to create chapters in any MKV file you have that does not already have chapters or edit existing chapter names and start times if it does have chapters. This is useful if you want to split an MKV concert or album into its songs (by chapter) using the MMH tool ‘Split & Rename MKV’ described earlier in this document and your Concert Video does not have Chapters:

There are three methods supported setting the Chapter Names and their Start Times:
• Manually add chapters and enter the desired Start Time (for each song)
• Copy & Paste a track list from a simple text file
• Copy & Paste a track list from the MKVMerge/www.chapterdb.org website’s text file (see below)

This dialog only support chapter start times in the format: hh:mm:ss.sss (Hours, Minutes and Seconds separated by a colon ‘:’)

NOTE: This feature will only create chapters in an MKV file that does not already contain any chapters.

Create Chapters dialog description:
Click: ‘Create MKV Chapters’ from the Launcher dialog.

This displays the Create MKV Chapters dialog:

To add chapters, first select an MKV file (that does not have chapters):

Click: ‘Open MKV’

This pops up a dialog asking you to select an MKV file:
Click: ‘Open’ or double-click on the desired file

Now the ‘Create Chapter Files’ dialog enables the ‘Paste from clipboard’ button:

Let’s describe the first method of adding Chapters:
Manually Adding Chapters & Start Times:

To manually add Chapters:

Enter the Number of Chapters in the ‘Number of Chapters’ numeric up/down control (or click up or down to increase/decrease the current number. Then:

Click: ‘Apply’ to set the number of chapters entered

Now you need to enter each Chapter Name and its start time (always absolute meaning 00:28:05 is 28 minutes and 5 seconds from the beginning of the video).

Typically the first chapter will begin at 00:00:00.000 but it’s possible to cut out the intro and start at the first song (e.g. first chapter at 00:02:00.000).

The Start Time column is a masked input allowing only valid time entry:

The New Name column allows you to manually enter the chapter/song name. (of course you can manually copy & paste a text string into either column, but the Start text must be in the hh:mm:ss.sss format)

HINT: When entering Start times in the grid cell you can use the space bar to move to next time field (e.g. When entering minutes hit space to move to seconds etc)

Typically, you could view your MKV in something like VLC Media Player to find the time at which each song starts, entering that into the dialog’s Start Time field for each song.
Adding Chapters & Start Times by Copying from the Clipboard:

MMH supports two text formats copied to the clipboard: (You do not need to set the number of chapters like you have to for manual chapter creation. MMH will auto add all the chapters from the clipboard)

Simple Format:

Just a list of chapter names, one line per chapter. This also supports the Start Time if it is appended to the Chapter Name (but separated with a bar ‘|’ character) as per the example below:

Intro|00:00:00.000
One Way or Another|00:01:14.000
Rave|00:05:03.000
Hanging on the Telephone|00:09:19.000

If the Start time is not included MMH will only add the Chapter Names, not the Start Times and you must manually edit the Start Times in the dialog after it is pasted from the clipboard.

To copy & paste a Simple Format simply open the text file you have with the chapter/track list, highlight all the text, and copy (CTRL-C), now in the ‘Create Chapters’ dialog:

Click: ‘Paste from clipboard’

<table>
<thead>
<tr>
<th>Chapter</th>
<th>New Name</th>
<th>Start (H:mm:ss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intro</td>
<td>00:00:00</td>
</tr>
<tr>
<td>2</td>
<td>One Way or Another</td>
<td>00:01:14</td>
</tr>
<tr>
<td>3</td>
<td>Rave</td>
<td>00:05:03</td>
</tr>
<tr>
<td>4</td>
<td>Hanging on the Telephone</td>
<td>00:09:19</td>
</tr>
<tr>
<td>5</td>
<td>Mile High</td>
<td>00:13:14</td>
</tr>
<tr>
<td>6</td>
<td>Call Me</td>
<td>00:17:21</td>
</tr>
<tr>
<td>7</td>
<td>Take Me In the Night</td>
<td>00:23:05</td>
</tr>
<tr>
<td>8</td>
<td>Maria</td>
<td>00:25:48</td>
</tr>
<tr>
<td>9</td>
<td>Euphoria</td>
<td>00:31:30</td>
</tr>
</tbody>
</table>

MMH creates a Chapter entry for each of the text lines from your clipboard and if the text contains the Start Times then they are also copied for each chapter.

MKVMerge and Chapterdb.org website’s Format (both are same formats):

This format is a more complex text file list of Chapters and chapter Start Times in the following format:

CHAPTER01=00:00:00.000
CHAPTER01NAME=Intro
CHAPTER02=00:01:14.000
CHAPTER02NAME=One Way or Another
CHAPTER03=00:05:03.000
CHAPTER03NAME=Rave
CHAPTER04=00:09:19.000
CHAPTER04NAME=Hanging on the Telephone

With this text file format each chapter’s information is on two text lines, first the Start Time then the Chapter Name.
To copy & paste a MKVMerge/Chapter.org Format simply open the text file you have with the chapter/track list, highlight all the text, and copy (CTRL-C), now in the ‘Create Chapters’ dialog:

Click: ‘Paste from clipboard’

<table>
<thead>
<tr>
<th>Chapter</th>
<th>New Name</th>
<th>Start (hh:mm:ss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intro</td>
<td>00:00:00</td>
</tr>
<tr>
<td>2</td>
<td>One Way or Another</td>
<td>00:01:14</td>
</tr>
<tr>
<td>3</td>
<td>Rave</td>
<td>00:05:03</td>
</tr>
<tr>
<td>4</td>
<td>Hanging on the Telephone</td>
<td>00:09:19</td>
</tr>
<tr>
<td>5</td>
<td>Mile High</td>
<td>00:13:14</td>
</tr>
<tr>
<td>6</td>
<td>Call Me</td>
<td>00:17:21</td>
</tr>
<tr>
<td>7</td>
<td>Take Me in the Night</td>
<td>00:23:05</td>
</tr>
<tr>
<td>8</td>
<td>Maria</td>
<td>00:25:48</td>
</tr>
<tr>
<td>9</td>
<td>Euphoria</td>
<td>00:31:30</td>
</tr>
</tbody>
</table>

MMH creates a Chapter entry for each of the text lines from your clipboard with the Start Times for each chapter.

**To Create new Chapters:**

Once the dialog chapter list completed (by manual entry or from the clipboard) to create the chapters:

Click: ‘Save’

MMH now runs mkvmerge.exe in a command window and the chapters are added into a copy of your original chapter-less MKV (in the same folder as the original MKV). Please don’t close the command window, wait until it automatically closes on completion.

When completed, you will have a new MKV file with your added chapters. Now you can use the MMH tool ‘Split and Rename MKV’ to break your new MKV into separate concert song files named after the new chapter names you just added.
Playlist Editor:

Functionality:
This tool enables you to do the following:

- Create and Edit m3U playlists for both Audio and Music Video files (including mixing Audio & Video files)
- Copying the media files in any existing m3U playlist to another folder location or disc

The Playlist media supported should be all the common audio and video files supported by Kodi (FLAC, MKA, MP3, AAC, M4A, WAV etc for Audio and MKV, M2TS, VOB, AVI and MP4 for video).

Playlist dialog description:
Click ‘Playlist Editor’ from the Launcher dialog.

This displays the Playlist dialog:

Top menu options:
File: Allows you to open an existing M3U playlist file (you can add/edit/remove the contents)
Preferences: Allows setting your Path preferences for the saved playlist files

Command Buttons:
Add Folder: Adds all media files in the selected folder (to the end of current playlist)
Add Files: Adds all selected files (to the end of the current playlist)
Remove: Removes all selected files from the playlist
Clear: Clears the playlist (Removes all)

The Re-Order buttons moves the selected file:
- To the Top of the playlist
- Up (one position)
- Down (one position)
- To the Bottom of the playlist

Browse: Sets the ‘current folder’ and location of the saved playlist
Save: Saves the current playlist

HINT: You can also drag & drop a selected file in the playlist to re-order your playlist

HINT: You can also drag & drop selected files from Windows Explorer into your playlist. The selected files will be added at the position you drop onto your list (example: Dropping 4 files on top of the 3rd song in your list will add the 4 new songs at positions 3, 4, 5 & 6 – moving the original 3rd song to position 7)

HINT: You can also add files to your playlist from the MMH ‘Media File Manager’ grid by double-clicking on any track in the track list grid

NOTE: You can copy all the files from any playlist to another folder by using the [File] menu’s [Copy Playlist Files] command. This is equivalent to ‘exporting’ your playlist which can contain files from many folders into a single folder.

NOTE: If you open an existing playlist MMH checks each music file to see if it exists. If a file cannot be found it is highlighted. Since this is often due to changes in files names of album folder name, you can double-click on the missing file in the playlist and MMH will open a ‘select file’ dialog at album folder (if file does not exists but album folder does) or the artist folder (if the album folder does not exist)

Example Music (Audio) playlist:

Example Music Video (Concert) playlist:
**HINT:** When Selecting files from the Open File Dialog you will need to change the default files type option in the dialog from Audio to Video

**NOTE:** The Artist name is found from the ‘Artist’ tag for audio files that are tagged. If the file is not tagged or it’s a video file MMH attempts to get the Artist name from the folder structure. The expected folder structures are based on Kodi’s recommended folder structures:

- Music (audio only): \ARTIST\ALBUM_NAME\files
- For music videos (concerts): \ARTIST - CONCERT_NAME\files

MMH automatically checks for duplicate songs in the current playlist when Saving and warns if any duplicate songs are included (you can still save the Playlist with duplicates if you wish)

**Copying Playlist Media Files:**

After you have opened and existing playlist or added files to a new playlist the ‘Files’ toolbar menu command ‘Copy Playlist Media Files’ is enabled. This command allows users to copy all the media files in the current playlist to a new folder. (Maybe you wish to copy the playlist to a USB stick to play in your car, for example).

By default the media files are copied ‘as is’. The Playlist Preferences dialog gives various options to:

- Retag the copied files
- Rename the copied files (Include Artist name in file name etc.)
- Renumber the copied tracks (sequentially in the playlist order – both file name and track tag)

**NOTE:** These options effect Copied files only – original playlist files remain unchanged
Playlist Preferences:

The ‘Preferences’ menu option in the Playlist Editor’s menu enables setting of preferences:

**Music File Path Format:**
These options set the path information in the saved playlists which is useful if your playlists will be used on another device that does not use your PC’s Windows paths.

**NOTE:** For Kodi files on a separate device (not your Windows PC, e.g. a CoreELEC or LibreELEC Media Player) NAS or Server you can use *advancedsettings.xml* to convert your Windows paths to ones used on your Kodi device.

Example: Here is my Kodi advancedsettings.xml nodes for my LibreElec NUC to convert my Windows PC paths created in the Playlist Editor to paths used by my LibreElec Kodi & NAS using Kodi’s pathsubstitution:

```xml
<pathsubstitution>
  <substitute>
    <from>/MediaBackup/Audio Surround/</from>
    <to>nfs://192.168.1.6/volume1/Volume1/MediaBackup/Audio Surround/</to>
  </substitute>
  <substitute>
    <from>/MediaBackup/Music Video/</from>
    <to>nfs://192.168.1.6/volume2/Volume2/MediaBackup/Music Video/</to>
  </substitute>
  <substitute>
    <from>/MediaBackup/Audio Stereo/</from>
    <to>nfs://192.168.1.6/volume1/Volume1/MediaBackup/Audio Stereo/</to>
  </substitute>
</pathsubstitution>
```
Copying Playlist Files – Copied File options:

This preference section provides two option groups/types:

- Re-Tagging
- File Renaming

NOTE: These options effect Copied files only – original playlist files remain unchanged
Media File Manager:

Functionality:
This tool enables you to do the following:

- Create a list (and report) of all your media files (including audio sample/bit rates and video resolution)
- Selectively Copy any media to another folder or disc (Destination)
- Selectively Delete any media already on a Destination disc

The feature supports any source type including Audio only (Music), Music Videos, Movies and TV Series.

I developed this for three reasons:

1. I wanted an automated/updatable list of all my media
2. I have a ‘master’ disc on my PC for all my music which includes quite a few duplicate versions of the same album (e.g. remastered, CD, Vinyl, DVD-Audio etc.) but I only want to have one version on in my Kodi Library
3. I often travel and have a small media player and a portable USB drives. So I want to manage what music, movies and TV Series I copy to the USB drives for my various trips away

Both of these are made easier by using this Tool.

Media File Manager dialog description:
Click: ‘Media File Manager’ from the Launcher dialog.

This displays the Media File Manager’s dialog:

Initially most the commands are disabled until you ‘Add Sources’ and ‘Scan’ the Source folders for media content.

‘Sources’ in MMH can be any of the following categories (Source Types):

- Music (Audio Only)
- Music Videos
- Movies
- TV Series

You can add as many Source folders as you like as you may have multiple root folders or disc drives for Movies etc.
To setup your Sources:

Click: ‘Sources’ on toolbar menu at the top of the Media File Manager’s dialog (previous screen shot)

This pops up the ‘Media Source Folders’ dialog where you can add/remove source folders:

To add a ‘Music (Audio)’ Source folder to the File Manager Source Folders list:

Click: ‘Music (Audio)’ command button

This brings up a folder selection dialog where you can select the Root folder for your Audio Music sub-folders:

Click: ‘OK’ to save the new Source as a ‘Music (Audio)’ source

The Sources dialog will then show the new Source Folder:
You can add as many as you like. You cannot use any media in the Media File Manager without adding its Root folder to the Sources dialog as a Source Type. Once you have added your sources:

Click: ‘Save’ to save the sources

**NOTE:** The Source List is saved and will automatically reload the next time you open Media File Manager

**Saving and Importing Sources from a text file:**
The Media File Manager feature also enables users to save their Sources to a text file and Import Sources from a text file. It must include the first line header: Folder Name|Media Type. Each source is written on one line in the format: SourcePath|SourceType (separated by a bar character '|').

An example of the supported text format is shown below (first line is a ‘header’ showing data format).

```
Folder Name|Media Type
X:\Audio Surround|Music
P:\Music Video|Music Videos
M:\Movies|Movies
N:\Movies|Movies
O:\War Movies|Movies
T:\TV Series|TV Series
```

**NOTE:** The ‘SourceType’ (Media Type) must be one of the following:
- Music
- Music Videos
- Movies
- TV Series

The ‘File’ menu of the Source dialog (above) has two menu options to Save your current Source List to a file or to Import a Source List from a file. To import a Source List file (formatted above) it must have a file extension of ‘.csv’.
**Scanning Your Sources for Media:**

Any time after you have defined your Sources you can select a ‘Source Type’ from the Source Type dropdown list which is only enabled once you have added Sources (you have at least one Source):

Select a Source Type from that combo (above) and now many of the controls are enabled:

To load the grid with all the media for the selected ‘Source Type’ in previous screenshot:

Click: ‘Scan Source’ (button)

MMH goes ahead a scans the Source Folders that are ‘Music’ sources and loads them into the grid:
In the screenshot above the checkbox option ‘Get Video & Audio Codecs (Slower)’ has been enabled so with this option the grid shows the ‘Codec’ data (Audio Channels and sample rates).

For Music (Audio), Music Videos and TV Series the grid also shows the number of media files in each folder (‘Tracks’ column above for Audio folders).

For video sources an additional column named ‘Resolution’ is added showing the video resolution of the files (e.g. 1920x1080 etc.)

For Audio files the grid shows the Tagged Artist and Album Names.

Clicking on a column header toggles the sorting (up/down) for the column, there is also column filters (click on the filter image on right of any column header when you mouse hovers over the column). So you can easily find recent additions (Date) or filter of source names, artist, titles, media size, codec or resolution etc.

Commands:

Export/Print: Pops up the grid Print Preview dialog with options to print/export to PDF, Word or Excel etc
Export to Excel: Exports all the Grid contents to an Excel (.xlsx) file
Export to CSV: Exports all the Grid contents to a CSV file (for import into Excel to make a pretty report etc)
Copy: Copies the ‘Selected’ folders (‘Copy’ checkbox in the grid) to set ‘Destination Folder’
Browse: Sets the ‘Destination Folder’ (where selected folder/files will be copied).

The option ‘Show Albums in Destination Folders’ shows the grid’s contents that are matched in the Destination Folder (so you know it’s already copied, it also compares file dates to see if anything is different). The info appears in the ‘Copied’ column – ‘Yes’ is match, ‘Part’ if some files missing or dates are different).

Example PDF Report from the Export/Print command:
Copying Files to Another Folder or Disc:
Select the ‘Copy’ column checkbox to select folders (with all their files) to the ‘Destination Folder’ (as set in the bottom of this dialog).

NOTE: When a Media Folder is copied it also copies all media files and sub-folders. For Music it also copies the parent (Artist) folder’s metadata & image files including ‘extrafanart’ folder, so this ensures the Kodi metadata files are all copied for both the Album and its Artist.

If the ‘Destination Folder’ is set and the ‘Show Albums in Destination Folders’ checkbox is checked as you select each Folder to Copy MMH will enter add ‘Copied’ or ‘Part’ to the ‘Copied’ column (‘Copied’ if all files exist and are same date in both your Source and Destination folders for that Album. ‘Part’ if one or more files is missing in the Destination or is of a different date)

MMH also shows the total amount of disc space that is required on the Destination Drive and will warn you if the available free space is less than the than the total of the selected and not existing on destination.

To Copy the Selected Files:
Click: ‘Copy’ command button

Sit back and relax. Copying large files and collections will take some time.

NOTE: The ‘Select’ toolbar menu contains an option to Delete selected media folders on the Destination Folder. This may be useful if you want to remove something from a USB drive to make room for new media.

There is also an option checkbox to create a CSV Tracklist file containing a list of every media file (song, video etc) found during ‘Scanning’. This file may be imported into Excel to view, sort and filter etc.

Viewing Track details from the Media Manager grid:
You may view album and concert songs/tracks by simply clicking on the small ‘+’ (plus) icon on the left of the album or concert record in the grid, this open up the album’s/concert’s track Details sub-grid as shown, click the ‘-’ (minus) icon to close the Track sub-grid:
Adding a Track from the Media Manager grid to a Playlist:

If you have a Playlist open in MMH you can double-click on any Album or Concert track and the track will be added to the currently opened Playlist:

Example: Double-Click on the track highlighted below:

The track is now added to your open Playlist as shown below:
Rename Media/Tag Media Files:

**Functionality:**
This tool enables you to do the following:

- Rename Media files (video or audio) by copying a list of tracks (typically from a website containing a list of songs in the music concert release disc)
- For audio files only: Supports auto tagging of tracks from MusicBrainz (based on a search by Artist and Album names)

**Rename/Tag Files dialog description:**
Click ‘Rename Files and/or Tag Files’ from the Launcher dialog.

This displays the Rename/Tag Files dialog:

Use the ‘Add files from Folder’ button to select a folder containing supported media files (Video: MKV, VOB, AVI or MP4. Audio: FLAC, WAV, MP3, AAC, DFF, WAVPACK)

**Renaming Files:**
You can now either:

- Enter the song titles for each chapter manually in the ‘Proposed New Name’ column (not recommended) Or;
- Copy and paste all the song titles in a single command (recommended) from the clipboard

**Copying all the Track Titles from the clipboard:**
If you don’t already have a list of all the titles that you can copy, use your favourite web browser, search for your album or concert video in Google, find a web page that lists the songs, select all the list text and ‘copy’ (CTRL-C) to your clipboard.
If you do have the titles already in a text file then open the file, select all the list text and ‘copy’ (CTRL-C) to your clipboard.

Now click: ‘Paste from clipboard’ command in the Rename dialog (above).

This pops up the MMH Copy Text Notepad dialog which enables you to view the selected text and edit it if required:

Click: ‘Paste Track Titles from clipboard’ button to add your selected text.

Click: ‘Copy Tracks’ button when you’ve completed editing your tracks list.

This will update the Rename/Tagging list with text from this Copy Text Notepad.

**Tagging Tracks from Musicbrainz (online music database):**

After loading files, Click ‘Get Tracks from MusicBrainz’ from the toolbar menu.

This displays the Musicbrainz Tagging dialog:

Initially this is empty.

To search for an album’s tracks:

Enter the Artist and Album Names (first two text boxes), then click: ‘Find’
NOTE: If there is more than one matching ‘Album Artist’ name found in the Musicbrainz database, MMH will ask you to select the correct artist from the Album Artist dropdown list. Once selected MMH will then search for your selected Album Name by the Album Artist chosen.

If you enter valid names the ‘Releases’ list will be populated with all known releases. Click on any release to see its track names.

To use these tracks to rename and tag: Click: ‘Copy Track List’. The Rename Files dialog will now contain the album’s track info.
Split MKV/MKA to MKA:

Functionality:
This tool enables you to do the following:

• Split a Matroska Video MKV or a Matroska Audio MKA file (with Chapters encoded) into individual MKA files, one file per chapter (typically per song).
• Rename the Chapter files by copying a list of tracks (typically from a website containing a list of songs in the music concert release disc). However, it is easier to use MMH’s tool Tag and Rename to rename.

Renaming also has an option to ‘Renumber’ all the new chapter files (prefix each file sequentially to force the chapters to be shown in file browsers in their original concert sequence). Example:
  03. First Song Title.mkv
  04. Second Song Title.mkv

**HINT:** There are various applications that will convert a DVD or Blu-ray disc to MKV or MKA including MakeMKV. You should ensure the MKV or MKA contains chapter information (chapter start times).

**NOTE:** The chapter files created by MMH will contain the same audio tracks as per the original MKV/MKA file. The original codec contained in the file does not get changed in any way.

Split MKV/MKA to MKA Walk-Through:
In this scenario we will assume you already have a music MKV containing the entire album or concert in a single MKV file.

Click: ‘Split MKV/MKA to MKA’ from the Launcher dialog. The following dialog appears:
Click: ‘Split MKV/MKA File’ from the top menu

MMH will pop up a file browser dialog for you to select the source MKV file you wish to split:

![File browser dialog]

NOTE: The new output chapter files are saved to the same directory as the original source file selected to split.

Select the music MKV/MKA file and click: Open

Since you are converting to a Matroska Audio file (MKA) it can only contain one audio track. MMH pops up a dialog showing all the audio tracks contained in the selected file. You should select one:

![Select Audio Stream]

HINT: Double-clicking selects and closes the dialog

MMH now splits the selected file into its chapter files – You will see a progress bar showing percentage complete while this task runs.
When the split task is completed the original MKV or MKA file has now been split into its individual chapter files named in same sequence as the original chapter layout and all the chapter file names are loaded into the dialog. If the original MKV.MKA file has named chapters they will be loaded as the screenshot below:

![Split MKV/MKA File into Chapter Files as MKA](image)

**HINT:** You can manually edit the ‘New Name’ value if required.

If there are no named chapters in the original MKV you may end up with ‘New Names’ that do not contain correct Song Titles or they are empty like the next screenshot, in which case you should rename them.

You can rename them in this dialog (see below) or you can just close this dialog and open MMH’s ‘Tag and Rename’ tool from the Launcher dialog. This is the preferred method if the MKV/MKA file comes from an Audio Album, in which case the track names will be available from MusicBrainz online database.

You can also use the mka file created in other tagging programs like mp3tag to tag and rename.

**Renaming the Chapter files in this dialog:**
You can now either:
- Enter the song titles for each chapter manually in the ‘New Name’ column (not recommended) Or;
- Copy and paste all the song titles in a single command (recommended) from the clipboard

**Copying all the Track Titles from the clipboard:**
If you don’t already have a list of all the titles that you can copy, use your favourite web browser, search for your Concert in Google, find a web page that lists the songs, select all the list text and ‘copy’ (CTRL-C) to your clipboard.

If you do have the titles already in a file then open the file, select all the list text and ‘copy’ (CTRL-C) to your clipboard

**HINT:** Sometimes the published concert Track List does not include the introduction chapter or the credits chapter, so sometimes the number of chapters (hence the number of chapter files) is not the same as the number of track list
songs. In this case you may wish to first copy your clipboard selection to a temporary text file and manually add an intro at the beginning and/or credit at the end. You can remove the first and/or last chapters from the Rename dialog’s list by selecting the file and clicking ‘Remove’. Once you have your updated Track List copy that to your clipboard and you are ready to continue.

Now click: ‘Paste from clipboard’ command in the Rename dialog (above) and the track names will be copied to the grid.

**NOTE:** MMH will automatically add a sequence prefix to the New Names imported from the clipboard. So you don’t have to add any numeric prefix. You only need to ensure the song titles are in the correct sequence. MMH will actually remove any leading numbers and renumber them, so if some song titles have leading numbers and some don’t’ MMH will clean up those for you.

At this point the files are not yet renamed; you are just setting the new names you want. You can, of course, manually edit any song title in this dialog too.

**NOTE:** MMH will automatically check for illegal characters in the proposed new file names (characters that are not allowed in Windows file names). If any exist you will be warned and shown which new filenames need to be edited.

When you have your new names set as you require:

Click: ‘Rename’ button to rename each chapter file to your new names.
Remix Audio Files:

**Functionality:**
This tool enables you to do the following remixing of channels within a multichannel FLAC or WAV file:
- Add new ‘silent’ channels to Quad (4 channel) files – Some AVRs & players do not play pure Quad files
- Remix 7.1 to 5.1 (some releases are 7.1 only and users have only a 5.1 system)
- Remove a silent centre channel from 5 channel files (make a true quad 4.0 file)
- Remove channels 3 & 4 from a 6 channel file (Remove silent centre and LFE channels from 5.1 files)
- Invert Channel Phase for any channel(s) in a 6 channel (5.1 layout)
- Define your own Remix channel mapping and remix selected files

**NOTE:** Remixing channels using this dialog can either OVERWRITE the selected source files or be created in a new sub-folder from Source named ‘Remixed’. You need to select either option at bottom of dialog.

The standard channel ordering in a FLAC or WAV is always:
- **Quad:** LF, RF, SL, SR
- **5.0:** LF, RF, C, SL, SR
- **5.1:** LF, RF, C, LFE, SL, SR
- **7.1:** LF, RF, C, LFE, SL, SR, BL, BR

**Resample Files dialog description:**
Click ‘Remix Audio Files’ from the *Launcher* dialog.

**NOTE:** You must select one of these remix checkboxes at top before selecting the source files. MMH will only load files that match the channels selected (e.g. ‘Add Silent Channel to Quad’ will only load the grid with 4 channel files, remix 7.1 to 5.1 will only load 8 channel files, etc). This is to stop a user from attempting to remix files of incorrect channels for the selected remix option.

To remix audio simply select the ‘Remix Option to’ rate from the top checkboxes then use one of the ‘Add’ buttons.
Adding Files to remix:
You can now either:

- ‘Add Sub Folders’ – This recursively adds all audio files in all sub-folders under selected folder
- ‘Add Folder’ - Adds all audio files in selected folder
- ‘Add Files’ - Adds selected file(s) as selected in the file dialog that pops up

In version 3.5.2 a new remix option was added to allow users to define their own temporary remix definition, for example swap front and rears in a quad file.

**To define your own Remix Channel Mapping:**
Click on the checkbox [Remix (User Defined)]:

This immediately pops up the User Defined Remix channel mapping dialog containing six input channels on the left and 6 output channels on the right (mapped one to one):

To change the default mapping:

1. First ensure the number of input channels is correct for your definition. For example, if your source files are Quad then remove the inputs ‘C’ and “LFE’ by selecting each one and using the <DEL> (delete) key on your keyboard.
2. Ensure the number of Output channels is correct for your converted file
3. Ensure channel mappings (link lines) are correct. Select and hit <DEL> key to remove unwanted, incorrect mappings.
4. Add your new channel mappings by clicking and holding down on the right side of a input channel and dragging the mouse to left side on the Output channel, release the mouse button.

Here’s an example of Quad channels being remapped by swapping front and rears and also adding 2 new silent channels for C and LFE to convert to 5.1 formatted files:

To save your definition click the [Save] button. This returns you to the original Remix dialog and now you can go ahead and select the Quad files or folders containing Quad files to remix.
Resample Audio Files:

Functionality:
This tool enables you to do the following:
- Resample Audio (e.g. Resample 96kHz to 48kHz, Resample 48kHz to 96kHz etc)
- Resample Audio (e.g. 16 bit to 24bits) (or a combination or sample rate and bit depth)

NOTE: Resampling using this dialog OVERWRITES the selected source files. You may wish to back up your original files prior to using these tools.

Resample Files dialog description:
Click ‘Resample’ from the Launcher dialog.

This displays the Resample Files dialog:

Adding Files to resample:
You can now either:
- ‘Add Sub Folders’ – This recursively adds all audio files in all folder under selected folder
- ‘Add Folder’ - Adds all audio files in selected folder
- ‘Add Files’ - Adds selected file(s)

To Resample audio simply select the ‘Resample to’ rate from the dropdown list (at bottom) and bit depth. If the bit depth is not set bit depth is not changed.

To process the selected files:
Click: ‘Convert’
Split MKV (and Convert Audio) to FLAC:

Functionality:
This tool enables you to do the following:

- Split an MKV file containing High Resolution Audio into lossless FLAC files (multichannel and lossless DTS-HDMA supported at 24/96kHz from BD and DTS 96/24 from DVD)
- Automatically Rename and Tag the FLAC files based on Artist and Album lookup to MusicBrainz db

The MKV file should contain chapters and at least one Audio stream. This tool automatically locates the highest resolution audio stream to extract to FLAC.

HINT: When you create an MKV from your Blu-ray, DVD or other source you can select the audio track(s) to include in the MKV file prior to using this tool.

Split MKV to FLAC dialog description:
Click ‘Split MKV to FLAC’ from the Launcher dialog.

This displays the MKV to FLAC (Audio) Conversion dialog:

You can go ahead and select your MKV file using the tool menu (at top left): ‘Split MKV File’

The next screen shot shows a File Selection dialogue used to select the MKV file:
NOTE: If the MKV file is named in the format: **Artist - Album** then MMH will automatically place the Album Artist and Album in the Album Tags text boxes on the right of this dialog.

MMH will pop up the ‘Select Audio Stream’ dialog, allow you to choose which audio stream to convert to FLAC:

Go ahead and **double-click** on the Audio Stream.

**NOTE:** If you select an Atmos stream its TrueHD 7.1 core lossless stream will be used. If you select a DTS:X stream its core lossless DTS-HDMA stream will be used. Atmos and DTS:X are object based audio streams, FLAC is limited to 8 channels and furthermore, there is no direct relationship between ‘objects’ and ‘channels’. You can playback Atmos or DTS:X in a Matroska audio (MKA) file. You may wish to convert Atmos/DTS:X audio using MMH’s ‘Convert MKV to MKA’ tool.

After selecting an MKV file, MMH processes the MKV, splitting into chapters and converting the selected audio track to FLAC. When completed the dialogue will contain all the chapters (FLAC files) as seen in the next figure:
Tagging Tracks from MusicBrainz (online music database):
Once the MKV conversion to FLAC files is completed, you can now search for the album details by manually entering the Album Artist and Album text boxes (if they have not already been added) and click: ‘Find’ to get a search for the album on the MusicBrainz online music database server.

**NOTE:** Please ensure you have the EXACT artist and album names. For example: this Pink Floyd album’s correct name is ‘The Division Bell’ not ‘Division Bell’.

If you enter valid names the ‘Releases’ list will be populated will all known releases for the Artist and Album name. Click on a release to see its track names, this will populate the Tracks listbox and also copy those track names to each FLAC file listed in the main grid.

To edit the list of tracks Click: ‘Copy Track Titles to Edit’. See ‘Copying All Track Titles from Clipboard’ information at the end of this section.

**NOTE:** If there is more than one matching Artist name found in the Musicbrainz database, MMH will ask you to select the correct artist from the Album Artist name dropdown list. Once selected MMH will then search for your selected Artist and Album.

In either case the Artist, Album, Year, Genre and Comment values from the text boxes are used for tagging the FLAC files after conversion.

The next screenshot shows the MKV Audio Conversion dialogue after a MusicBrainz search has located the album:
You can manually edit the file grid and change the proposed file names and tags.

When you are happy with the file and tag data.

Click: Rename & Tag

MMH will go ahead and rename the extracted FLAC files and tag with the appropriate data fields (either the values in the grid for song specific tag data or the ‘Album Tags’ text boxes and Track List (on right) for Album specific tag data.

**HINT:** If the folder that contains the source MKV file has a file named *folder.jpg* or *cover.jpg* (the album cover art) MMH will tag each FLAC with the cover art jpg automatically.

**NOTE:** You can also search Musicbrainz and tag after you have Split the MKV file.

**Copying all the Track Titles from the clipboard:**
If you don’t already have a list of all the titles that you can copy, use your favourite web browser, search for your album or concert video in Google, find a web page that lists the songs, select all the list text and ‘copy’ (CTRL-C) to your clipboard.

If you do have the titles already in a text file then open the file, select all the list text and ‘copy’ (CTRL-C) to your clipboard

Now click: ‘Paste from clipboard’ command in the Rename dialog (above)

This pops up the MMH Copy Text Notepad dialog which enables you to view the selected text and edit it if required:
Click: ‘Paste Track Titles from clipboard’ button to add your selected text

Click: ‘Copy Tracks’ button when you’ve completed editing your tracks list

This will update the file tag list with text from this Copy Text Notepad
**Merge or Split Audio:**

**Functionality:**
This tool enables you to do the following:

- Merge separate FLAC files into a single file
- Create a CUE file with from the original of individual files (storing tags and durations)
- Edit the original durations
- Split a FLAC from the CUE file created
- Or just Use the new large FLAC with all tracks and the new CUE to enjoy playback from the CUE

This tool can be used to change the original track start times and is useful to correct some discs that have been converted to FLAC with incorrect track start times (e.g. from a BDA or DVD with incorrect chapters times)

**Merge or Split Audio dialog description:**
Click ‘Merge or Split Audio’ from the Launcher dialog.

This displays the Merge or Split Audio dialog:

![Merge and Split Audio Files dialog](image)

**Adding FLAC Files to Merge:**

Click: Add FLAC Files

A file open dialog opens, navigate a select FLAC files to merge. You can use the standard windows multiselect options such as hold the ‘CTRL’ key while selecting to add each selected file or hold ‘SHIFT’ to select a range of files.

MMH will add the selected files as shown next:
You may edit the Start time values to adjust the start of any of the tracks in the CUE file.

**HINT:** When entering **Start times in the grid cell you can use the space bar to move to next time field (e.g. When entering minutes hit space to move to seconds etc)**

**NOTE:** Most of the existing FLAC file track tags are stored during the addition of files to this dialog and will be reused when the merged FLAC file is later Split back into individual FLACS.

**To Merge all the files in the list:**

Firstly ensure the Output File name has a valid value. MMH will attempt automatically add a name based on the tags it finds in the files added.

Click: Merge

MMH will process all files into a single large FLAC and the save a new CUE file with same name as the FLAC file with tracks (and Start times) in the grid at time of the merge.

**NOTE:** You can, of course, open the new CUE, once Saved (and the merged FLAC) in audio programs such as Foobar2000 and test the tracks. You can also manually edit the CUE MMH created to adjust start times or basic tag info. (Foobar2000 can also split back to individual FLAC files from the CUE and you can also edit a CUE with a text editor such as NotePad)

**To Split a Merged FLAC file:**

Once the merge is completed the Split command button is enabled and once clicked will go ahead and cut the FLAC into tracks based on the values in the grid a ‘Split’. The new FLAC files are re-tagged with their original tags including adding album art (if either a ‘folder.jpg’ or ‘cover.jpg’ file exists in the working folder).
Batch Audio Tools (flac):

Functionality:
This tool enables you to do the following (for FLAC files only) by scanning all FLAC files from a selected Source (parent) folder recursively all sub-folder:

- **Analyze ReplayGain:**
  - Report current ReplayGain tags embedded in flac files
  - Process each folder as an ‘Album’ and calculate Track Gain and Album Gain (BS 1770)
  - Save Track Gain and Album Gain tags (from previous step) to selected files

- **Analyze Album Cover Art:**
  - Report whether files contain embedded cover art and/or if cover art image files exist
  - Save cover art to selected flac files (add new or updates existing embedded art)

The Analyze ReplayGain is useful if you use Replay Gain as it can very easily find any files where Replay Gain has not been applied.

The Analyze Album Cover Art is useful if to easily find files without embedded art and can automate the re-tagging (embedding) of covers for all files in an album folder if it finds an image file named: folder.jpg or cover.jpg

**Batch Audio Tools Audio dialog description:**
Click ‘Batch Audio Tools (flac)’ from the Launcher dialog.

This displays the Batch Audio Tools dialog:

*HINT: On first run all option and commands are disabled until a user selects a ‘Source Directory’ from the ‘Browse’ command button. Once this tool has been used it ‘remembers’ the last state including Source Directory.

Once a Source Directory is selected you need to choose one of the Analyze option. By default MMH selects the first, ‘Analyze ReplayGain for all sub-folders’:
ReplayGain:

To View existing ReplayGain tags:
Ensure you select the Source Directory
Select: ‘Analyze ReplayGain for all sub-folders’ option
Select: ‘Get Existing ReplayGain’

Click: [Start Analyzing ReplayGain]

MMH processes each folder recursively and loads the flac file replaygain data:
To Analyze ReplayGain:
Select: ‘Analyze ReplayGain (slow)’
Click: [Start Analyzing ReplayGain]

MMH processes each folder as an Album and loads the calculated Track and Album replaygain using the ITU-R BS1770 algorithm. This is quite a slow process as each file is processed with a two phase gated measurement of the mean loudness as described by ITU-R BS.1770.

Once the Analyzed Track and Album Gains are loaded into the grid you can use the [Update Replay for Selected] command (bottom right) to save the Analyzed replaygain tags to each selected file. You must select the files first.

To Update ReplayGain tags:

After you have completed ‘Analyzed Replay Gain’

Select the files to update using the checkbox column on left

Click: [Update ReplayGain for Selected]

MMH goes ahead and saves the Analyzed replaygain tags to each selected file.

**HINT:** You can use the column filters (in each columns header when you hover your mouse over the column header) to display only certain files. For example: Only specific folders (Albums) or files without existing replaygain data.

**HINT:** You can select every file in the grid by checking the checkbox in the select column’s header.

**NOTE:** MMH does not alter any audio stream content. The only change to any file is to add replaygain tags with gain data. These replaygain tags can be read by many playback software and devices.

**HINT:** You can remove replaygain tags from any selected files by checking the ‘During Update: Remove Replay Gain’ option prior to running ‘Update Replay Gain’.
Cover Art:

To View existing Cover Art tags:
Ensure you select the Source Directory
Select: ‘Analyze Cover for all sub-folders’ option

Click: [Start Analyzing Cover Art]

MMH processes each folder recursively and loads the flac file cover art data: Whether the file contains embedded cover art and whether the file’s folder contains a cover art image file (either folder.jpg or cover.jpg):
To Update Embedded Cover Art:

**NOTE:** To update embedded art a Cover File must exist in the file’s album folder

After you have loaded files using the previous command:

Select the files to update using the checkbox column on left.

Click: [Update Cover Art for Selected]

MMH goes ahead and saves the cover art image to each selected file

**HINT:** You can use the column filters (in each columns header when you hover your mouse over the column header) to display only certain files. For example: Only specific folders (Albums) or files without embedded cover art

**HINT:** You can select every file in the grid by checking the checkbox in the select column’s header
Appendix:

Download Microsoft .NET Framework (if required):