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SolveigMM Video Splitter

User Guide

SolveigMM Video Splitter: 7

First edition: August 18, 2005

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Solveig Multimedia Video Splitter

This documentation is designed to help you in using Solveig Multimedia Video Splitter. It contains information that describes basic and advanced steps for performing splitting tasks, interface items and shortcut keys.
This documentation is divided into the following sections:

- Getting started: This section contains introductory information about Solveig Multimedia Video Splitter, supported file formats, system requirements, basic terms and shortcut keys
- Solveig Multimedia Video Splitter interface: Provides information about controls in the Solveig Multimedia Video Splitter user interface
- Using Solveig Multimedia Video Splitter: Provides information about procedures to accomplish common tasks in Solveig Multimedia Video Splitter
- How-To: Provides information about the basic steps of video splitting process
- Technical information: Provides the technical description of the components Video Splitter is based on

Notices

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User Guide

Version 7

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Getting started

SolveigMM Video Splitter is a fast and powerful video splitting tool (see supported file formats). You can split your video file into parts with a few mouse clicks without any quality loss.
It is also possible to cut out several file portions of a movie at one time. You can get rid of all commercials in your movie in a couple of simple steps.

Video Splitter supports batch processing. If you need to process several tasks at a time, the Batch Manager help with it. You can add all your trimming tasks to a batch queue and process all of them at a time. Batch processing is supported only in Video Splitter Business Edition.

Join Manager of Video Splitter allows to join multiple audio/video fragments. The re-encoding is not involved in the joining process so all files must have the same parameters, such as video frame height/width, audio/video compression type, etc.

The slicing feature of Video Splitter allows to split files in parts by specified duration, size and by number of equal parts.
It is also possible to make the screenshot from the selected video frame.

Since version 6 Video Splitter has flexible timeline with support of editing of multiple files being placed on the same timeline per one run. Simply add files of the same format to the list of files, drag them to the timeline, place markers and get the desired video or audio track.

In this section:

- Distinction between Home Edition and Business Edition: The explanation of difference between Video Splitter Home and Business Editions
- Basic terms: The explanation of concepts and terms referred to in this document
- Supported file formats: The list of file formats that SolveigMM Video Splitter can handle
- System requirements: Minimum and recommended system requirements for SolveigMM Video Splitter
- Keyboard shortcuts: The list of keyboard shortcuts

Distinction between Home Edition and Business Edition

SolveigMM Video Splitter is available in two editions, **Home Edition** and **Business Edition**.
You can compare these editions in the table below.

Feature	SolveigMM Video Splitter Home Edition	SolveigMM Video Splitter Business Edition
Batch Manager. Unlimited number of editing tasks in one run		✔
Command line interface (SolveigMM Batch Splitter console utility)		✔

Basic terms

This section explains the key terms referred to throughout this document. Understanding these terms will help you start using Solveig Multimedia Movie Splitter in the most comfortable way.

- Splitting process
- Joining process
- Source and destination files
- Markers
- Fragments

Splitting process

Splitting is the process of dividing your video files into parts. For example, you can cut out a piece of video with undesired scenes (e.g. commercials, corrupted video). The splitting process leaves source files intact saving the result in the destination file.

Joining process

Joining is the process of combining multiple parts or fragments of video/audio into a single file. Joining does not involve re-encoding so it does not affect the output audio/video quality.

Source and destination files

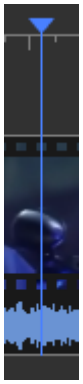
The source and destination files are the video files of a supported format. The source file contains video that you can split into parts, the destination file contains the final movie clip. During the splitting process, the source file remains in its original location and will not be changed or deleted.

Markers

A marker is a constituent part of a fragment. A fragment consists of two markers: start and end. It is set in the current cursor position.

The blue color means that the marker is selected. If marker is not selected it has the white color.

Such operations as deleting and positioning are applied to selected markers only.

Selected state	Not selected state
	

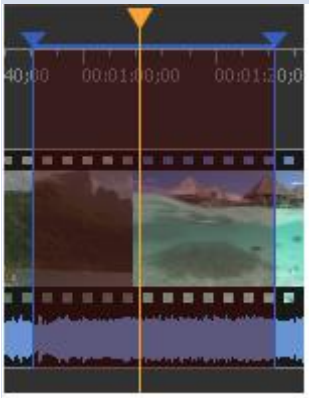
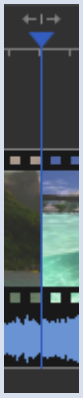
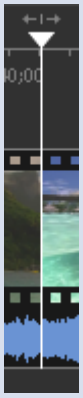
Fragments

A fragment is a part of a movie (or audio) file limited by two markers that is to be removed or kept in the final movie, e.g. the commercial block you need to be cut out.

The cut out fragment is usually highlighted with the red color.

You can see a sample keept and cut out fragments in the selected and not selected state below.

In case of some marker's time position corrections, you could deploy the collapsed fragment by double clicking on it.

Selected state			Not selected state		
Keept fragment	**Cut out fragment**	**Collapsed fragment**	**Keept fragment**	**Cut out fragment**	**Collapsed fragment**
					

For more detailed color definition see Using splitting controls section.

Supported file formats

- SolveigMM Video Splitter supports the following media file formats:

H.265 video elementary stream in MP4/TS/MKV	H.264 video elementary stream in MP4/TS/MKV/AVI	MPEG-2 video elementary stream in PS / TS	MP4 ISO Format with H265 / AAC with H264 / AAC other video/audio	AVCHD Format
MPEG TS Format with H265 / audio (AC3, AAC) with H264 / audio (AC3, AAC)	MOV Format with H264 / AAC other video/audio	AVI Format DV AVI type 1, type 2 OpenDML AVI any video/audio type any size > 2GB, > 4GB	ASF Format any 3rd party video/audio type	Matroska Format with H264 / AAC with H265 / audio other video / audio
WEBM Format	WMV Format	MPEG-1	FLV Format	Audio

VP8 Video Vorbis Audio	any Windows Media Video any Windows Media Audio	System stream Video elementary stream Audio elementary stream	H264 Video AAC Audio	mp3 mp1 aac ac3

- Indexation supports the following file formats:

- **MPEG-1 Video Format files (*.mpg, *.mpeg, *.m1v, *.mpv)**

- MPEG-2 Video Format files (*.mpg, *.mpeg, *.mpv, *.m2v, *.vob, *.ts, *.m2ts, *.vob)

- Support of embedded subtitles of formats (*):

- UTF8

- ASS

- SSA

- GAB2

- Support of external subtitles of formats (**):

- ASS

- SRT

(*) - Available for file formats: AVI, MKV, WEBM

(**) - Available for file formats: AVI, MKV, WEBM, MP4

System requirements

Software Requirements

- Windows® 98/ Me / 2000 / XP / 7 / 8 / 10
- DirectX 8.0 Runtime or higher
- Video and audio decoders for the preview feature (DirectShow, VFW or DMO)
- WMV/ASF support requires Windows Media Format 9 Series Runtime (shipped with Windows Media Player 9 and higher) MS: https://support.microsoft.com/en-gb/help/14209/get-windows-media-player
- Windows Media Format 11 Series Runtime for WMV file frame accurate editing https://www.free-codecs.com/download/windows_media_format_11.htm

Hardware Requirements

- CPU (Intel® Pentium II, Celeron, AMD® Athlon, Opteron etc.)
- 128 MB RAM
- Any VGA card
- About 110 MB of free disk space

Keyboard shortcuts

Almost every procedure in SolveigMM Video Splitter can be done using shortcut keys. Using these shortcut keys you can do some tasks more quickly.
The table below provides the list of operations that you can perform using keyboard shortcuts.

Hot Keys of Video Splitter (main window):

Operation	Shortcut key
Add Marker	M
Clear All Markers	Ctrl + C
Cut Out Previous Fragment	F
Cut out Selected Fragment	D
Invert Time Line Fragments	I
Keep Selected Fragment	S
Play/Pause	Space
Redo	Ctrl + Y
Remove Marker(s)	Delete
Save...	Ctrl + T
Undo	Ctrl + Z
Close	Ctrl + W
Open Media File	Ctrl + O
Save Project	Ctrl + S
Jump 1/20th Backward	Page Down
Jump 1/20th Forward	Page Up
Jump 2 min Backward	Shift + Left
Jump 2 min Forward	Shift + Right
Jump to Movie End	End
Jump to Movie Start	Home
Next Frame	Ctrl + Right
Next K Frame	Right
Previous Frame	Ctrl + Left
Previous K Frame	Left
Select Next Marker	Tab
Select Previous Marker	Shift + Tab
Select Slider Cursor	Ctrl + Tab
Preferences	Ctrl + P
Maximize Zoom	Num /
Move Scaled Area Left	Alt + Left
Move Scaled Area Right	Alt + Right
Reset Zoom	Num*
Zoom In	Num+
Zoom Out	Num-

Hot Keys of Batch Manager:

Operation	Shortcut key
Add Task to Batch Queue	A

Delete Selected Fragment	Shift + Delete
Delete Selected Task(s)	Delete
Start Batch processing	Ctrl + T
Start Barch Processing For Selected Task(s)	Shift + T
Update Task	U
Load Batch List	Ctrl + O
Edit the task in main window or show the selected fragment in the main window	Enter
Select all tasks	Ctrl + A

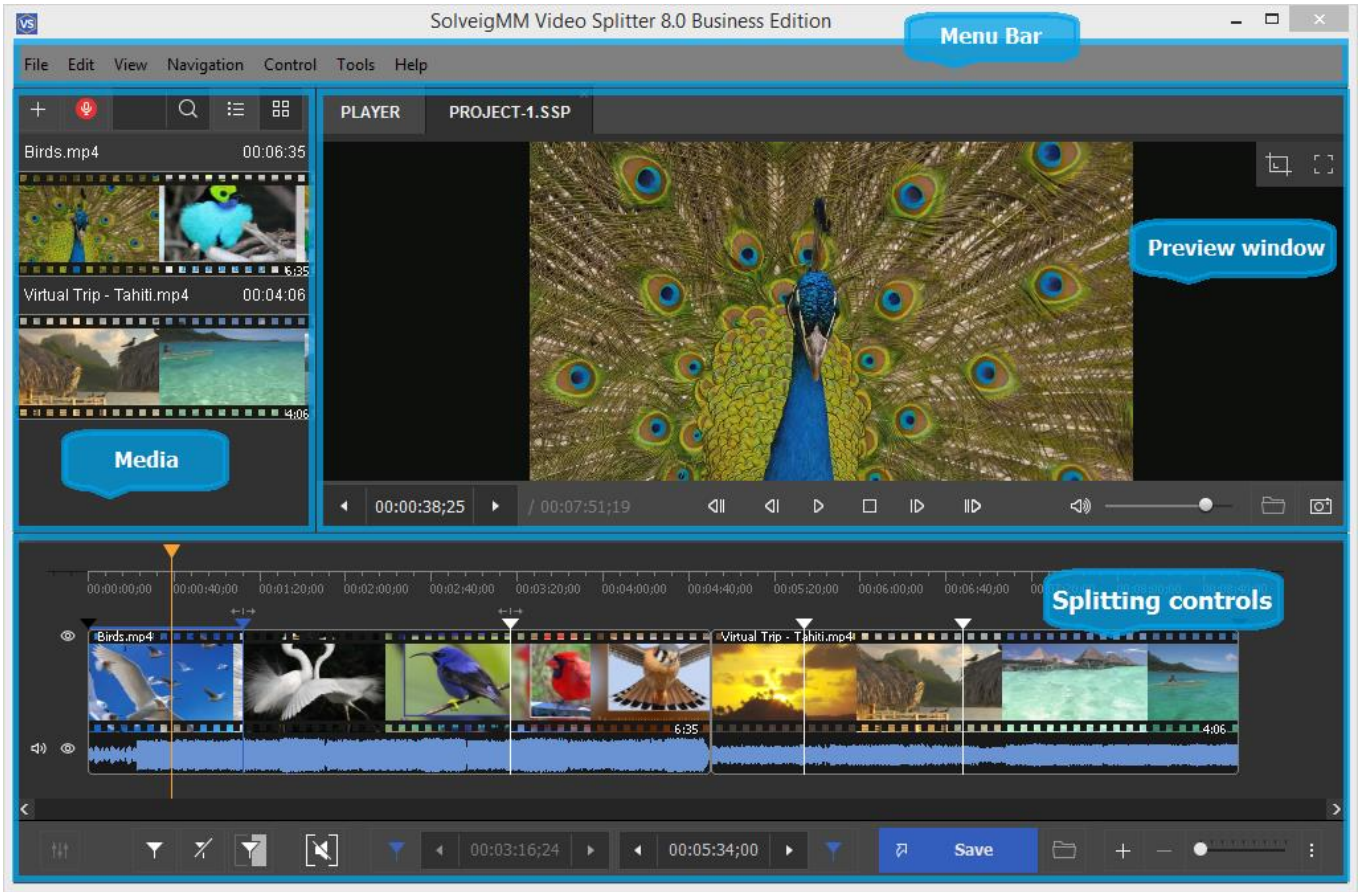
Hot Keys of Join Manager:

Operation	Shortcut key
Add media file(s) to the list	Ins
Delete the selected files from list	Del
Move the selected item down	PgDown
Move the selected item up	PgUp

Solveig Multimedia Video Splitter interface

The Solveig Multimedia Video Splitter user interface consist of five main parts: Menu bar, Navigation controls, Information window, Splitter controls and Preview window.

SolveigMM Video Splitter main window:



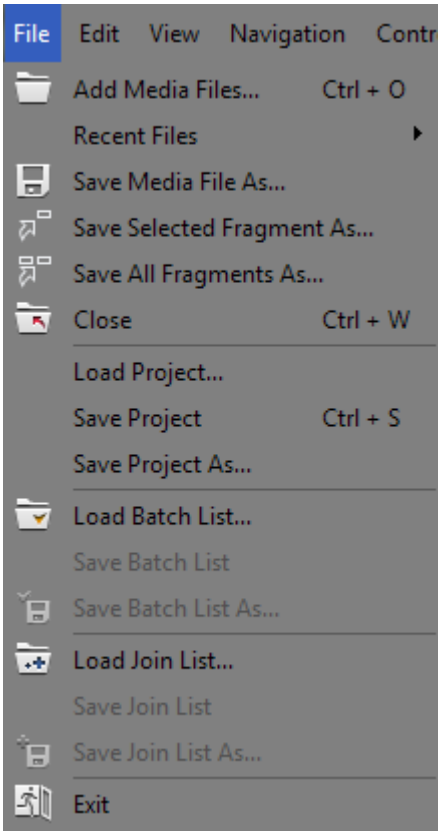
In this section:

- Menu bar
- Stream selection window
- Navigation controls
- Media panel
- Splitting controls
- Preview window
- Progress window
- Splitter in system tray
- Filters info window
- Batch manager
- Join manager
- Slicing Window
- Stream selection window
- Preferences window

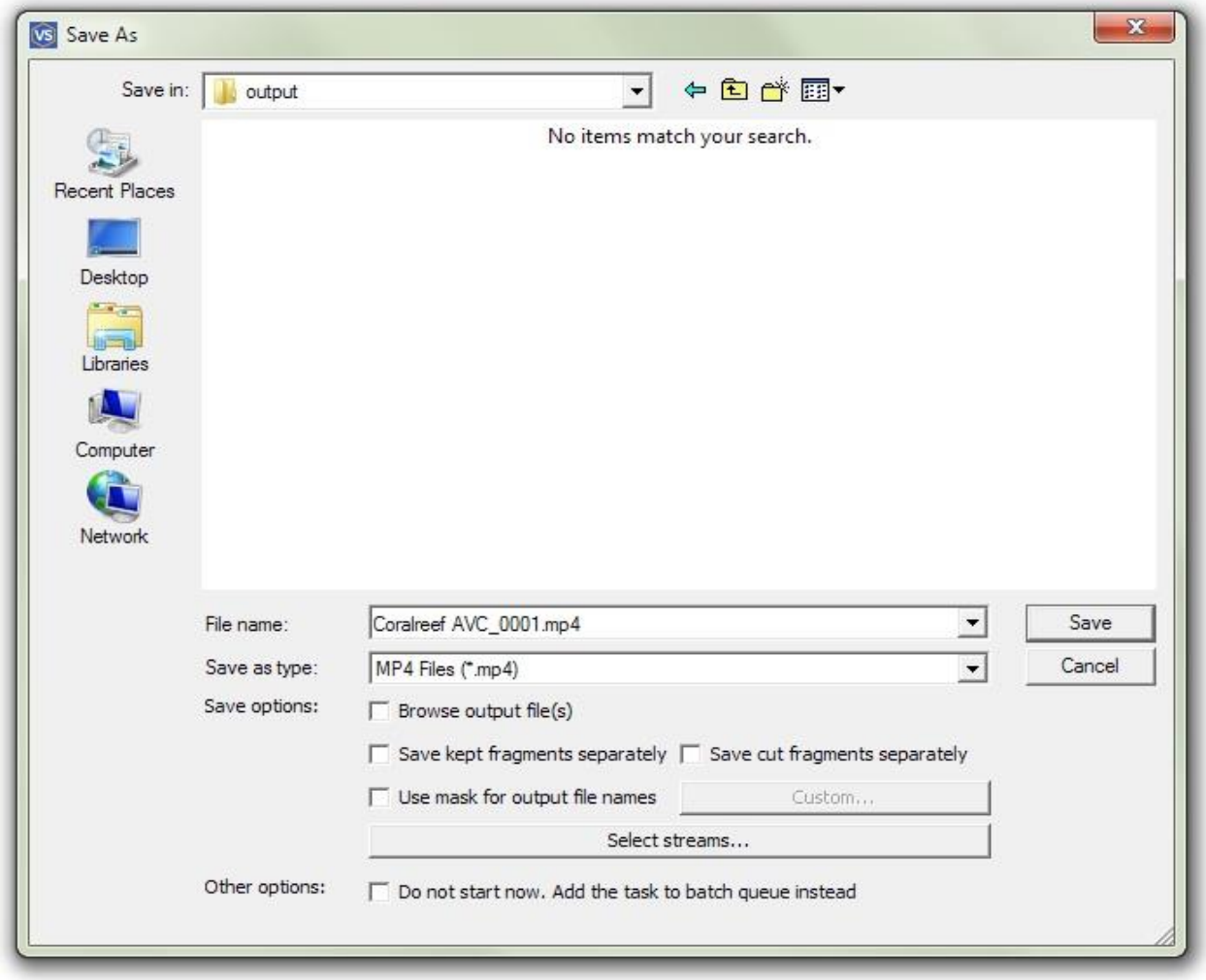
Menu bar

You can use commands in the menu bar to perform tasks in Solveig Multimedia Video Splitter. These commands are described in this document.

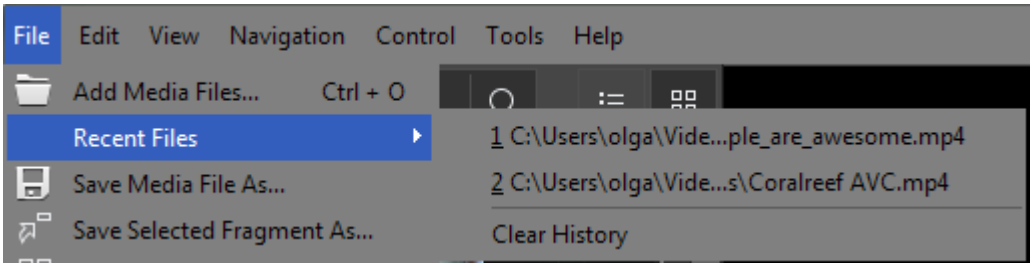
***File** menu*



Menu item	Description	Shortcut key
Add Media Files...	Select a supported media file to be opened and edited (*)	Ctrl + O
Save Media File As...	Specify the output file name and immediately save it (start the trimming process) (*)	
Save Selected Fragment As...	Specify the output file name and immediately save it (start the trimming process) (*)	
Save All Fragments As...	Specify the output file name and immediately save all fragments (start the trimming process) (*)	
Close	Close the input and output files	Ctrl + W
Load project...	Open a SolveigMM Video Splitter project file	
Save project	Save the project file	Ctrl + S
Save project As...	Save the project file to the specified folder	
Load Batch List...	Load a task list to the Batch Manager	
Save Batch List	Save the batch list	
Save Batch List As...	Save the batch list to the specified folder	
Load Join List...	Load a join list to the Join Manager	
Save Join List	Save the join list	
Save Join List As...	Save the join list to the specified folder	
Recent Files...	Open the recently edited files	
Exit	Close the program	

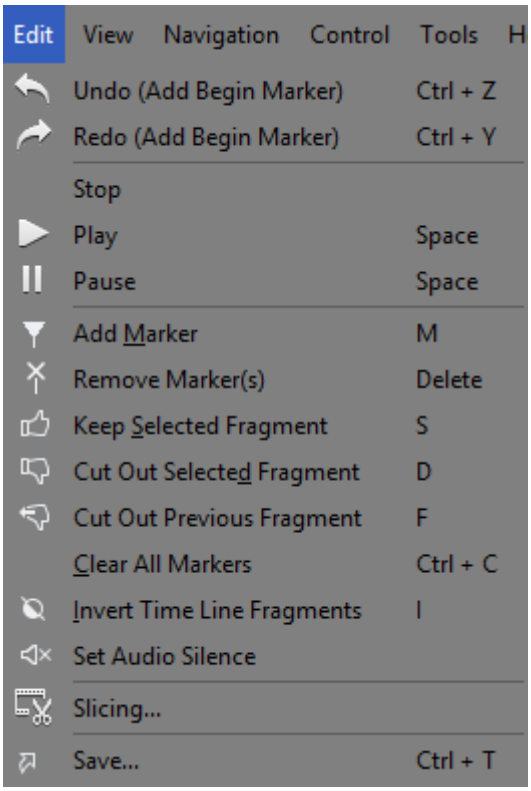


File** menu -> **Recent Files



Menu item	Description
Clear History	Allows to clear history of recent files

***Edit** menu*

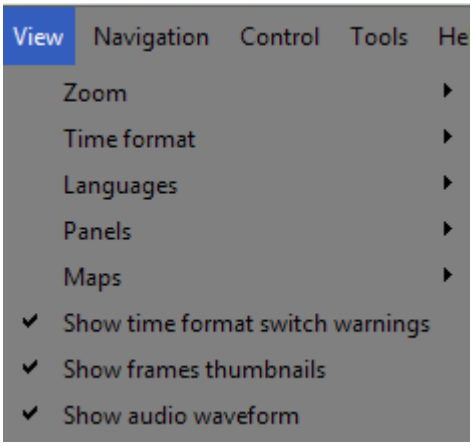


Menu item	Description	Shortcut key
Undo (Add Marker)	Undo the action	Ctrl + Z
Redo	Redo the action	Ctrl + Y
Stop	Stop playback	
Play	Start playback	Space
Pause	Pause playback	Space
Add Marker	Add a marker	M
Remove Marker(s)	Remove the selected marker or markers (*)	Delete
Keep Selected Fragment	Keep the selected fragment (*)	S
Cut Out Selected Fragment	Cut the selected fragment (*)	D
Cut Out Previous Fragment	Cut out the previous fragment (*)	F
Clear All Markers	Remove all markers	Ctrl + C

Invert Time Line Fragment	Invert all timeline fragments on the slider (*)	I
Start trimming	Start the trimming process (*)	Ctrl + T
Slicing...	Opens slicing window	
Set audio silence	Allows to mute sound of the selected fragment	

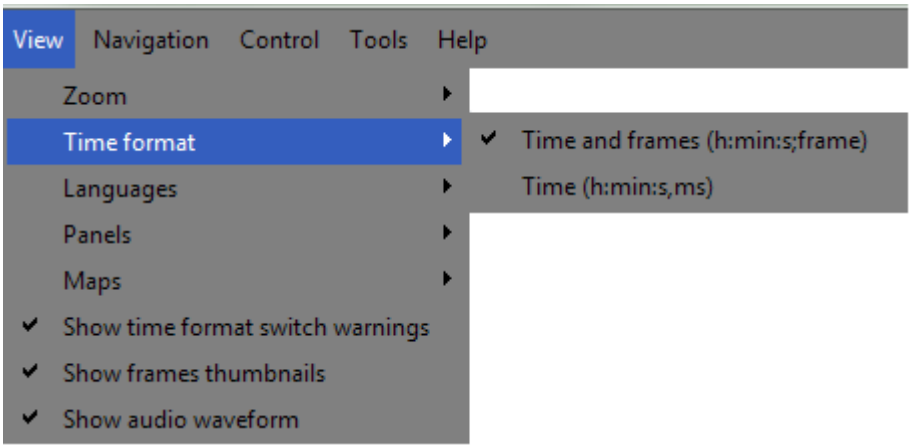
(*) - These operations are available from the menu and from the context menu . For details, see Navigation controls, Splitting controls

***View** menu*



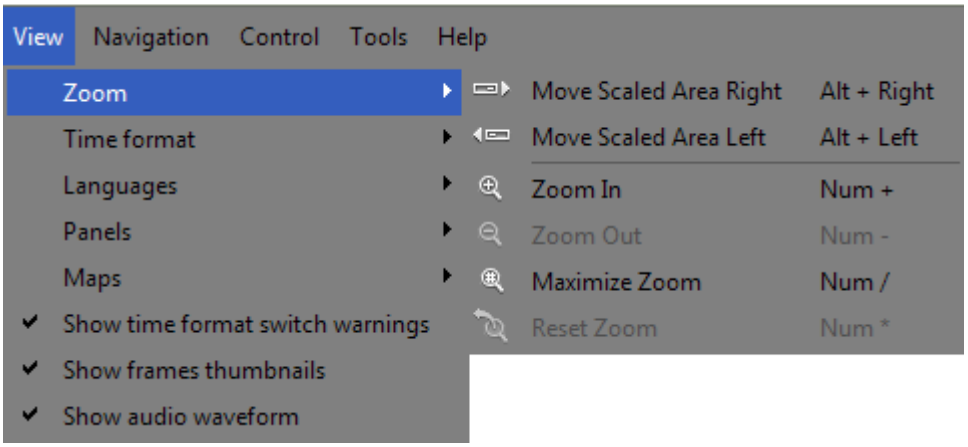
Menu item	Description	Shortcut key
Time format	Opens the submenu	-
Show frames thumbnails	Allows to show or hide frames thumbnails	-
Show format switch warnings	Allows to turn off or turn on format switch warnings	-
Zoom	Opens the submenu	-
Languages	Opens the submenu language of interface selecting	-
Panels	Opens the submenu	-
Maps	Opens the submenu	-
Show audio waveform	Allows to show or hide audio waveform	-

View** menu **-> Time format



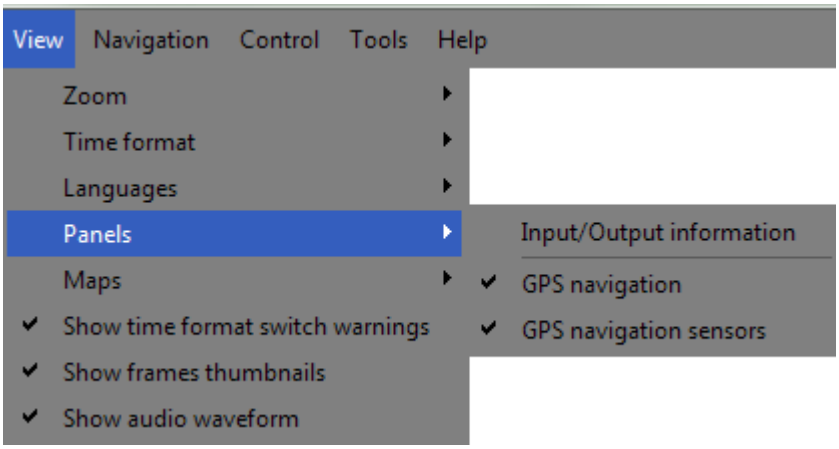
Menu item	Description	Shortcut key
Times and frames	Allows to show timeline in HH:MM:SS;frames format	-
Time	Allows to show timeline in HH:MM:SS;ms format	-

View** menu **-> Zoom



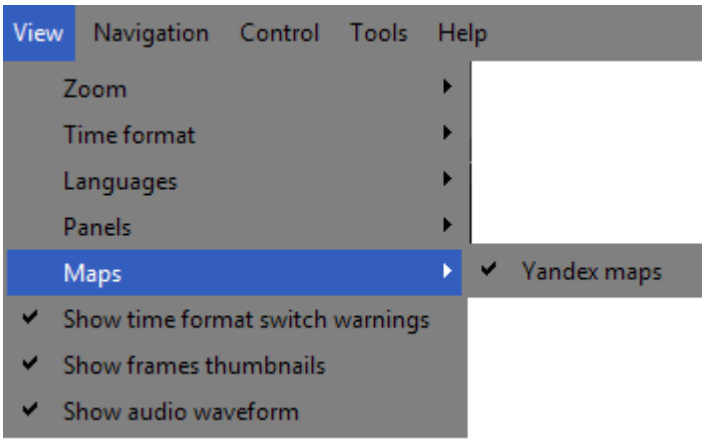
Menu item	Description	Shortcut key
Move Scaled Area Right	Move the zooming scrollbar right	Alt + Right Arrow
Move Scaled Area Left	Move the zooming scrollbar left	Alt + Right Arrow
Zoom In	Zoom in the timeline slider	NumPad +
Zoom Out	Zoom out the timeline slider	NumPad -
Maximize Zoom	Set the max scale rate	NumPad /
Reset Zoom	Reset the scale rate to 1 (initial scale)	NumPad *

View** menu **-> Panels



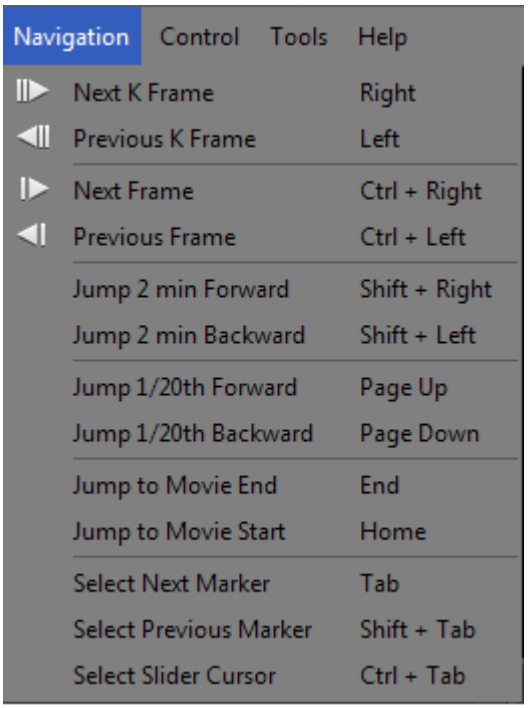
Menu item	Description
Input/Output information	Shows information about input and output files
GPS navigation	Shows GPS information if file contains such
GPS navigation sensors	Shows GPS navigation sensors: speedometer, compass and accelerometer (if file contains such information)

View** menu **-> Maps



Menu item	Description
Yandex maps	Displays route on the Yandex maps (if file contains such information)

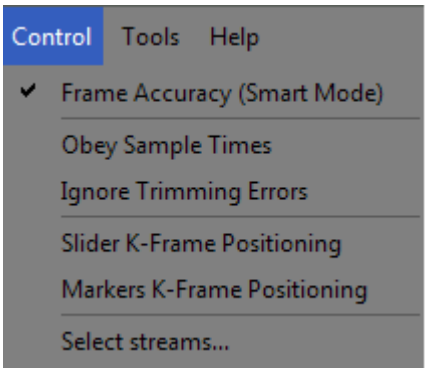
***Navigation** menu*



Menu item	Description	Shortcut key
Next K Frame	Go to the next K Frame	Right Arrow
Previous K Frame	Go to the previous K Frame	Left Arrow
Next Frame	Go to the next Frame	Ctrl + Right Arrow
Previous Frame	Go to the previous Frame	Ctrl + Left Arrow
Jump 2 min Forward	Jump 2 minutes forward	Shift + Right Arrow
Jump 2 min Backward	Jump 2 minutes backward	Shift + Left Arrow
Jump 1/20th Forward	Jump 1/20th of movie length forward	Page Up

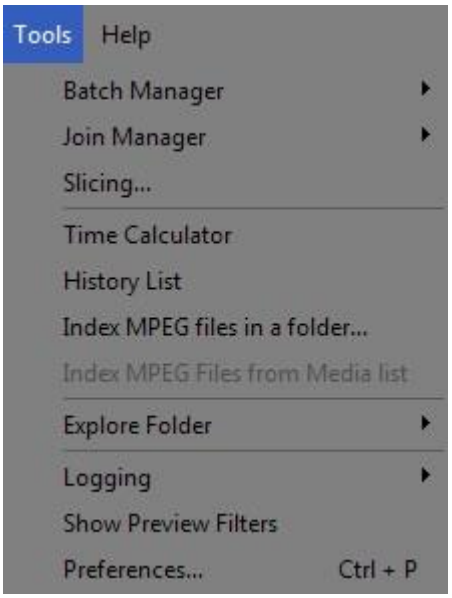
Jump 1/20th Backward	Jump 1/20th of the movie length backward	Page Down
Jump to Movie End	Jump to the movie end	Home
Jump to Movie Start	Jump to the movie start	End
Select Next Marker	Select the next marker	Tab
Select Previous Marker	Select the previous marker	Shift + Tab
Select Slider Cursor	Select the slider cursor	Ctrl + Tab

***Control** menu*



Menu item	Description
Frame Accuracy (Smart Mode)	Enable the frame accurate trimming mode
Obey samples times	Use an alternative synchronization algorithm. By default, it is disabled. If the resulting file is out of sync after repeated trimming selecting this option should improve audio/vido synchronization.
Ignore Trimming Errors	Ignore trimming errors. Note: It is reccommended to keep it disabled by default.
Slider K-Frame Positioning	If this option is enabled, the cursor jumps to the nearest previous K Frame after you position the slider. This mode implements the What You See Is What You Get feature. If this option is disabled, you can navigate through all movie frames.
Markers K-Frame Positioning	If this option is enabled, the marker jumps to the nearest previous K Frame after you position it. This mode implements the What You See Is What You Get feature. If this option is disabled, you can set the marker at any movie frame. Note: If the start marker of a fragment is disabled, the fragment in the final movies will be started with the K Frame anyway. Note: If the end marker of a fragment is disabled, the fragment in the final movies will end with the frame at the marker position.
Select streams...	Opens the window for selecting video and audio streams for preview and trimming. For details, see Stream selection window

***Tools** menu*

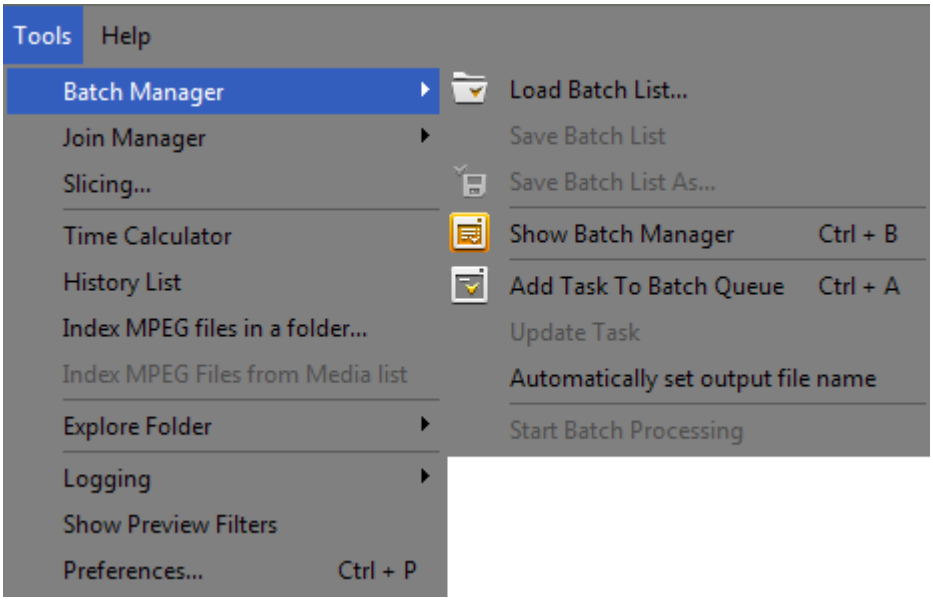


Menu item	Description
Batch Manager	Open the sumbenu of the Batch Manager item (available for Business Edition version only)
Join Manager	Open the Join Manager window
Time Calculator	Show the time calculator
History List	Open the history list of actions
Index MPEG files in folder...	Create index for MPEG files in the selected folder
Index MPEG File	Create index for the MPEG2 video file (*)
Explore Folder	Open Windows Exporer in the folder with the Input or Output media files
Logging	Open menu for actions with log files
Show Preview filters	Show the list of filters used for preview
Preferences...	Open preferences window
Slicing...	Open slicing window

(*) - This operation is available for MPEG2 video only if the file has not been indexed yet.

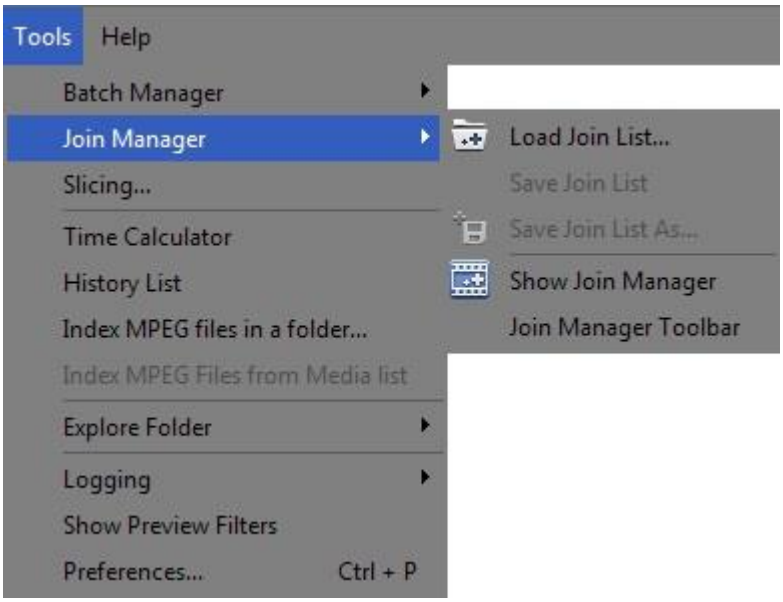
***Tools -> Batch Manager** menu*

Note: This menu is available in Business Edition version only



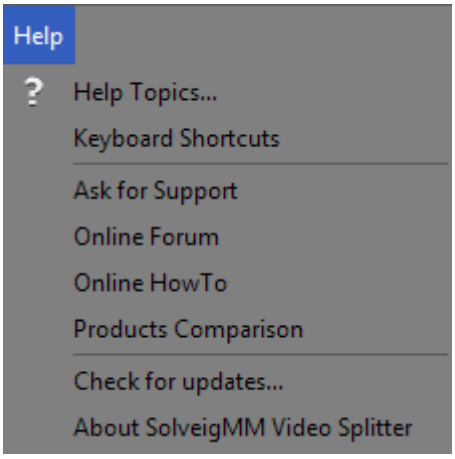
Menu item	Description	Shortcut key
Show Batch Manager	Show the Batch Manager window	Ctrl + B
Load Task List...	Select a supported batch file	
Save Task List	Save the Task List containin trimming task descriptions to an *.xtl file. See the Task List syntax in Batch file format	
Save Task List As...	Save the Task List containin trimming task descriptions to an *.xtl file to the specified folder. See the Task List syntax in Batch file format	
Add Task To Batch Queue	Add the current task to the batch queue	A
Update task	Update the selected task in the batch queue	
Automatically set output file name	If enabled allows to set the name for the output file automatically	
Start Batch Processing	Start the batch processing	

***Tools -> Join Manager** menu*



Menu item	Description
Load Join List	Load a joining task from a file
Save Join List	Save the current joining task to a file
Save Join List As...	Save the current joining task to a file to the specified folder
Show Join Manager	Show the Join manager main window
Join Manager Tooolbar	Show/hide the Join manager toolbar window

***Help** menu*

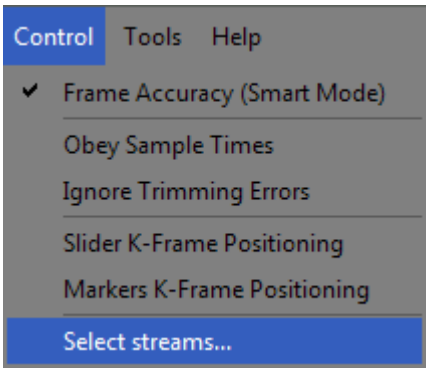


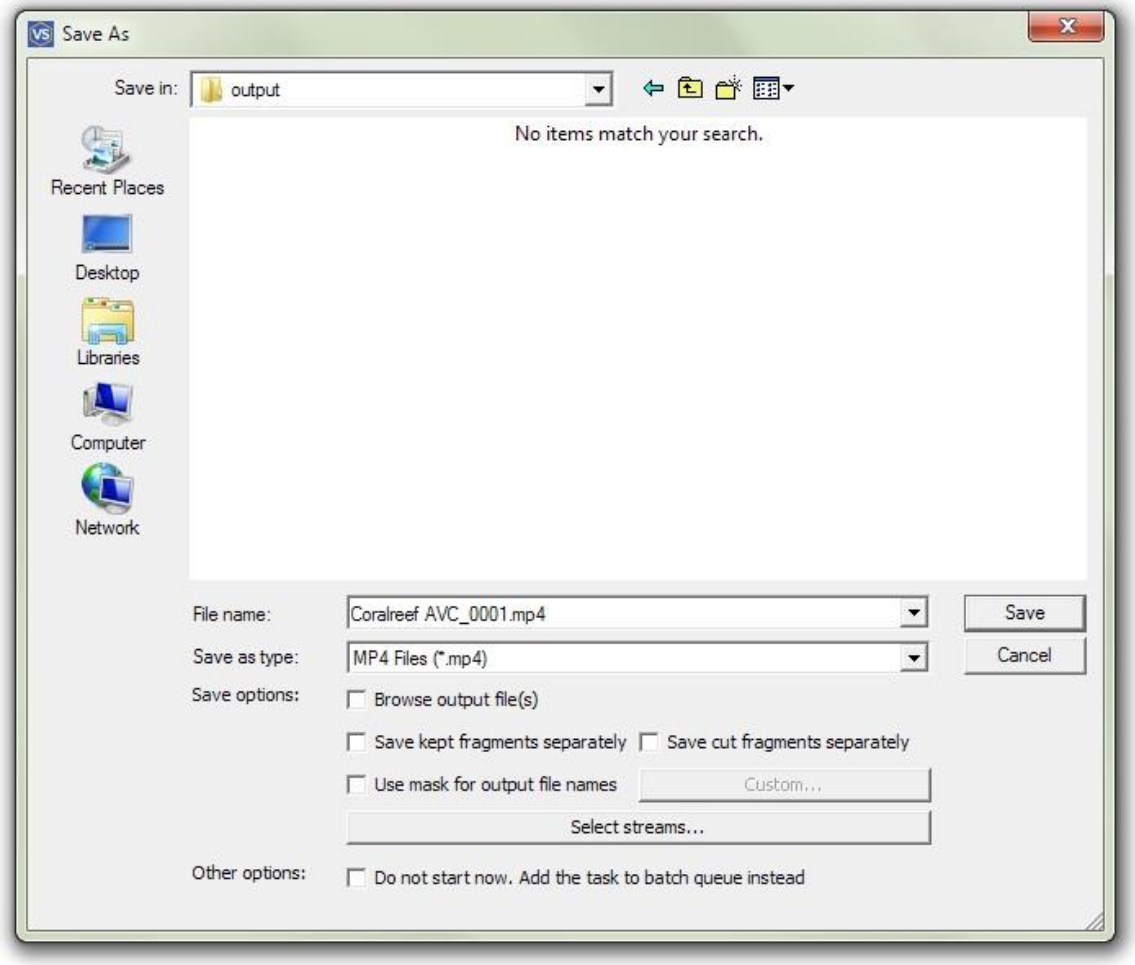
Menu item	Description	Shortcut key
Help topics...	Open the help file	F1
Keyboard ShortCuts	Shows the Keyboard Shortcuts section in the help file	
Register...	Register SolveigMM Video Splitter	
Ask for Support	Open Solveig Mltimedia support section of the website	
Online Forum	Open the Solveig Multimedia forum Open comparison table of SolveigMM products	

Online HowTo	Open HowTo section of the website	
Product Comparison	Open the webpage with SolveigMM products comparison chat	
Check for updates	Check if the latest Video Splitter version is installed	
About SolveigMM Video Splitter	Open the About dialog box	

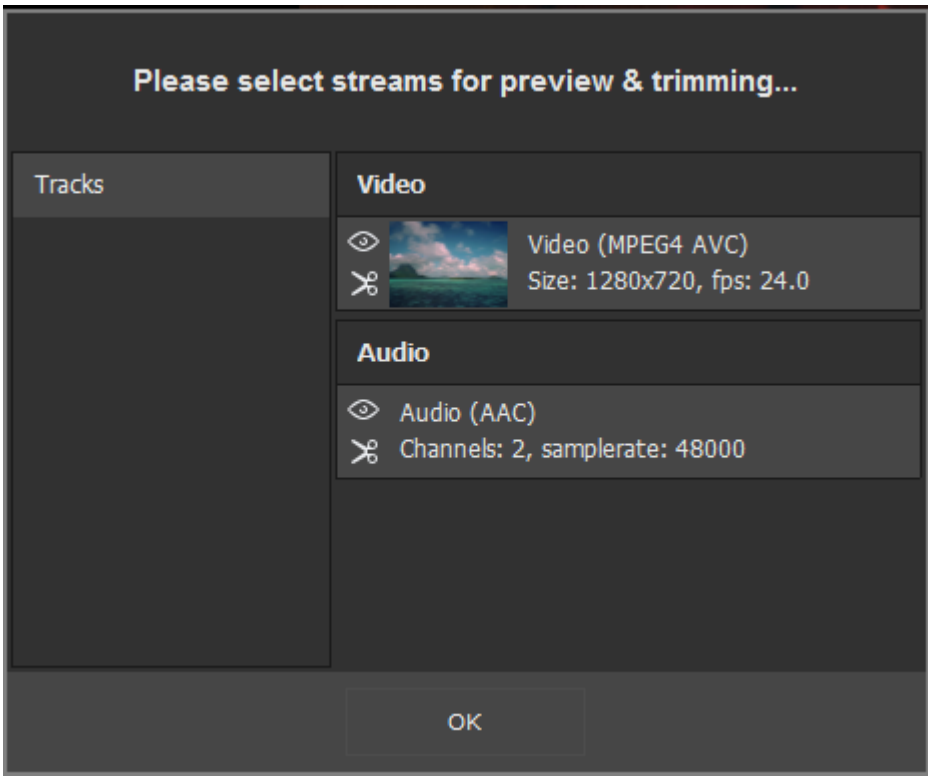
Stream selection window

Stream selection window allows stream selecting for preview and editing. This window appears automatically after opening of file with multiple video or audio tracks. You can also open this window from **Control -> Select streams...** menu or from "**Select streams...**" button of the dialog window opens after selecting the trimming operation.





Stream selection window has the following view.



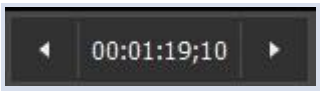
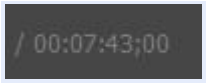
To preview the desired video or audio stream in Video Splitter please click the icon with an eye ( ) near this stream.

To save the stream in the resulted output video file please click the icon with scissors ( ) near this stream.

Item of Window	Description	Shortcut key
	The stream is selected for preview	-
	The stream is selected for editing. It will be saved in the output file.	-
	The stream is not selected for preview	-
	The stream is not selected for editing. It will not be saved in the output file.	-

Navigation controls

Navigation controls are designed for navigation through an open source media file. Using these controls, you can start and stop playback, pause it or search for the necessary position forward and backward. Also, the current position and total duration are displayed.

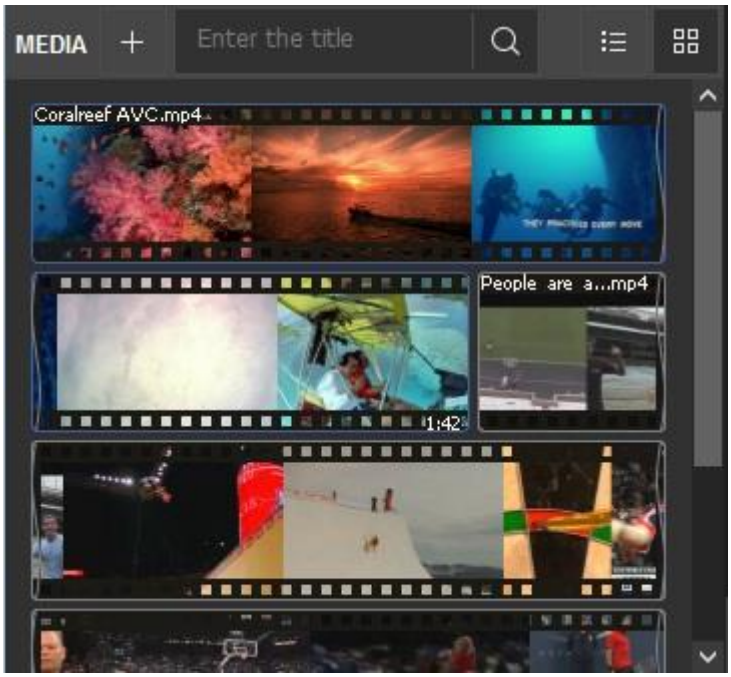
Window item	Description	Shortcut key
	Previous K Frame Next K Frame	Left arrow Right arrow
	Play/Pause	Space
	Pause	
	Previous Frame Next Frame	Cntr + Left arrow Cntr + Right arrow
	Slider cursor time position. You can edit this value manually	
	Total file length	

Media panel

Media panel allows adding the list of files of the same file format. Simply drag-and-drop file to the "Media" panel or click anywhere to open the dialog and add files. You could also click the ( ) button to open the new media file.

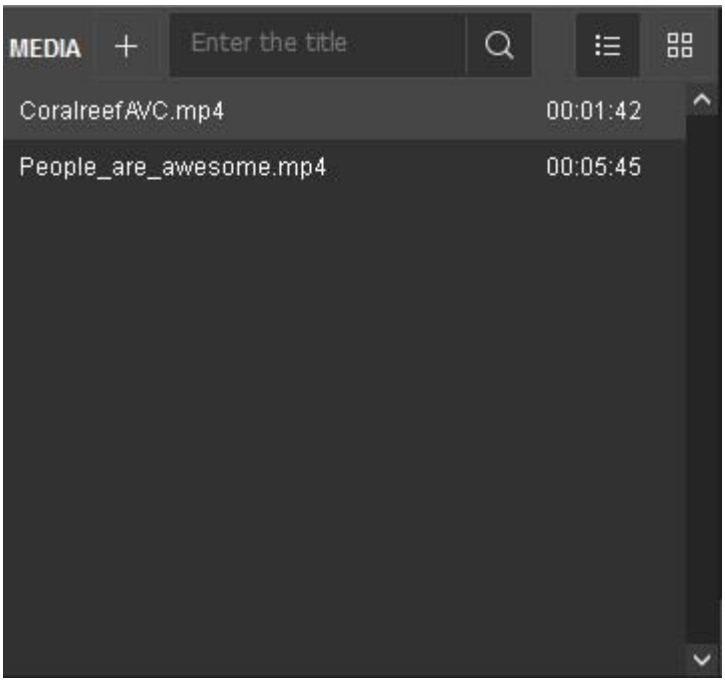
We would like to draw your attention to the fact that the files should be of the same file format and video/audio parameters to be added to the media list.

The files could be later dragged on the multi-timeline to be edited.



For your convenience there are two possible views of files in the list. By default is used "Extended view" ( ) as on the screenshot above.

There is also possibility to set "Simple" view ( ) as shown below.

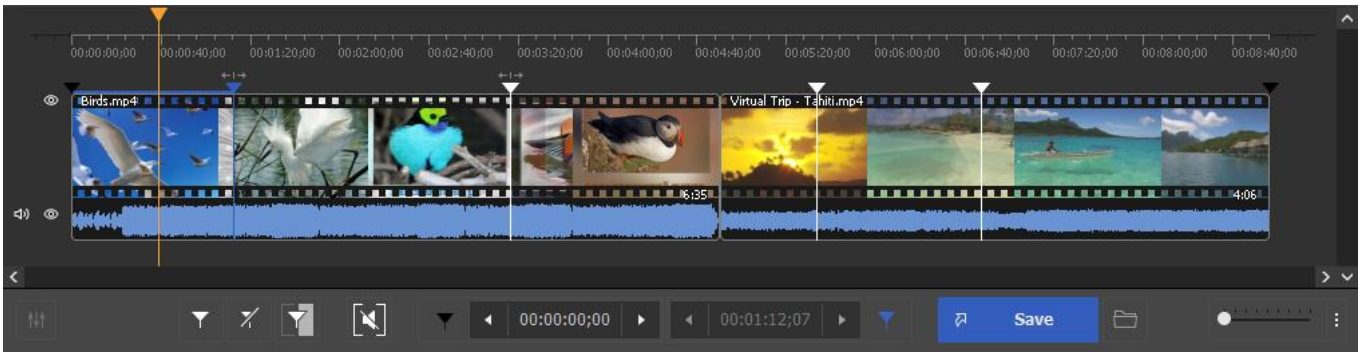


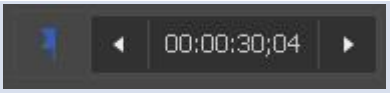
If you have numerous files in the list, you can search appropriate by using special search string.

Splitting controls

Splitting controls are the heart of Solveig Multimedia Video Splitter. Using these controls, you can manage the fragments that will or will not be saved in the final movie.

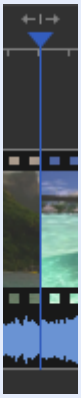
You can set fragments to be cut or kept, invert or completely delete fragments from your movie. Finally, the main button that starts the splitting process is located on this panel.



Window Item	Description	Shortcut key
	Add Marker: Add a new marker to the current slider cursor position.	M
	Delete Marker: Remove selected marker or markers.	Delete
	Set audio silence: allows to set audio silence for the chosen fragment	
 	Save: Start trimming or batch processing (if there are any tasks in the batch queue) Browse output file	Ctrl + T
	Left marker cursor time position. You can edit this value manually	
	Right marker cursor time position. You can edit this value manually	
	Zoom: Increase or Decrease the slider timeline resolution to make editing neighbouring markers more comfortable (*)	NumPad + NumPad -
	Story board Off/On: turn on/off the story board	
	Audio waveform On/Off: turn off/on the audio waveform	
	Get screenshot: allows to make the screenshot of the chosen video frame Browse screenshot: allows to open folder with the created screenshot	

	Mute selected audio track. Muted track will not be present in either the preview or the output file.	
	Minimize selected track on the timeline.	
	Displays zoom popup menu	
	Invert intervals selection	

Sample fragments:

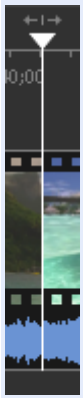
Fragment color	Description
	This fragment is set to be kept. It will be present in the final movie. The blue color of markers means you can edit it (delete, set it to be kept, etc.)
A: B: 	A: Deployed state of the cut out fragment. This fragment is set to be deleted. It will not be present in the final movie The blue color of markers means you can edit it (delete, set it to be kept, etc.). B: Collapsed state of the cut out fragment.

This fragment is set to be kept. It will be present in the final movie.
The white color of markers means that this fragment can not be edited.

A:

A: Deployed state of the cut out fragment. This fragment is set to be deleted. It will not be present in the final movie.
The white color of markers means that this fragment can not be edited.

B:

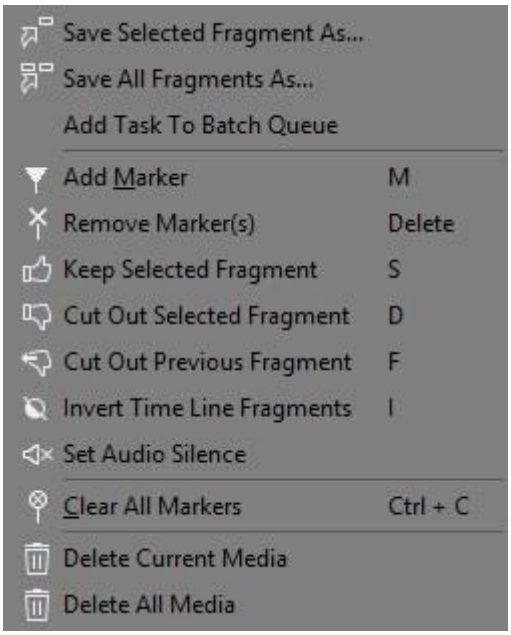


B: Collapsed state of the cut out fragment.

To place several files on the flexible timeline drag them to the right area of multitimeline after each file. View of Video Splitter with several files added on the multitimeline:

Notice: You can also paste the file from the MEDIA list to any time positions of already added file on the multitimeline.

Slider context menu



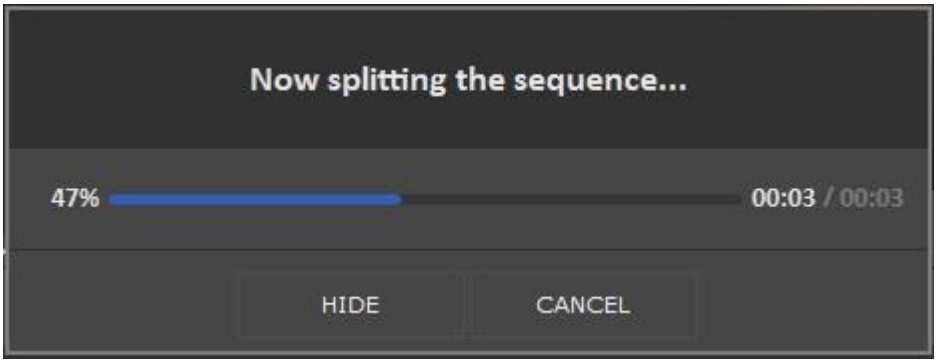
Menu item	Description	Shortcut key
Save Selected Fragment As...	Specify the output filename and immediately save the selected fragment (start the trimming process)	
Save All Fragments As...	Specify the output filename and immediately save all fragments (start the trimming process)	
Add Task To Batch Queue	Allows to add Task to Batch Queue	
Add Marker	Add a new marker to the current slider cursor position	M
Remove Marker(s)	Remove the current marker or fragment	Delete
Keep Selected Fragment	Sets the type of the selected fragment to be kept	S
Cut Out Selected Fragment	Set the type of the selected fragment to be cut out	D
Cut Out Previous Fragment	Set the type of the previous fragment to be cut out	F
Invert Time Line Fragments	Invert time line fragments	I
Set audio silence	Allows to mute sound of the selected fragment	
Clear All Markers	Remove all markers	Ctrl + C
Delete Current Video	Allows to delete selected video or audio file from the multi-timeline	

Preview window

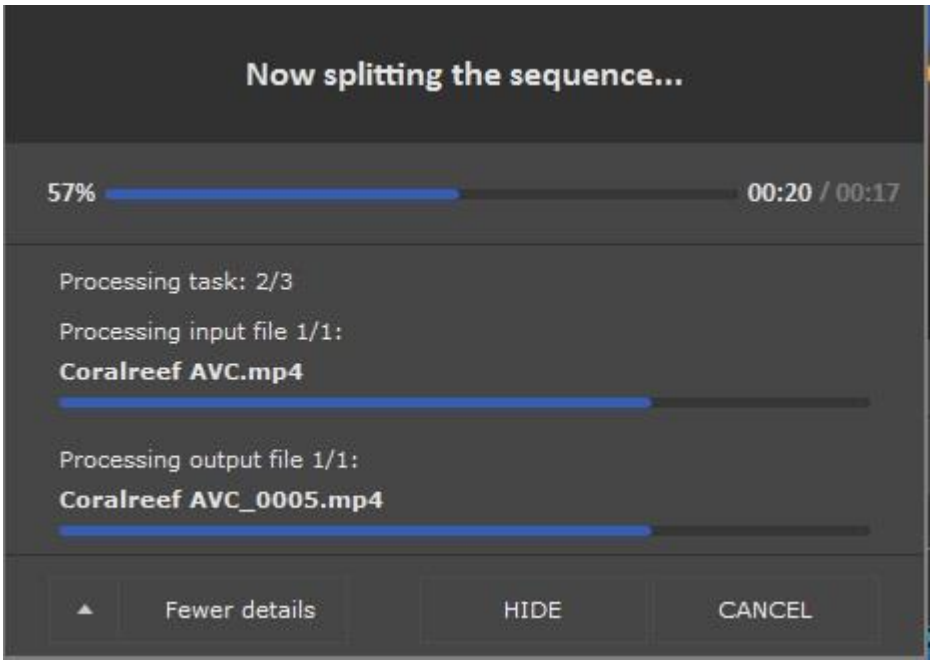
The preview window is designed for easy navigation through media files and helps you put splitting markers as precisely as possible.

Progress window

The progress window indicates the current progress in percentage terms. You can cancel splitting by clicking the **Cancel** button or hide Splitter to the system tray by clicking the **Hide** button.



The Batch Processing progress window is shown below:



The upper progress bar shows the progress of the task being performed
The lower progress bar shows the progress of all the tasks in the batch queue

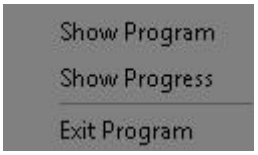
The **Hide** button hides Splitter to the system tray.
When trimming is complete, the Splitter window appears.

See also Splitter in system tray

Splitter in system tray

When you click the **Hide** button, Video Splitter is hiden to the system tray.

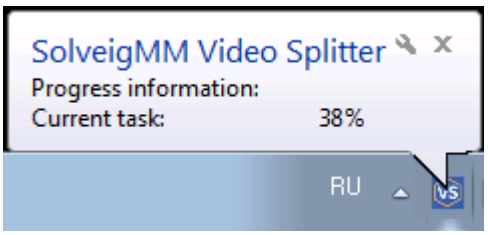
The following context menu is available when Video Splitter is in the system tray:



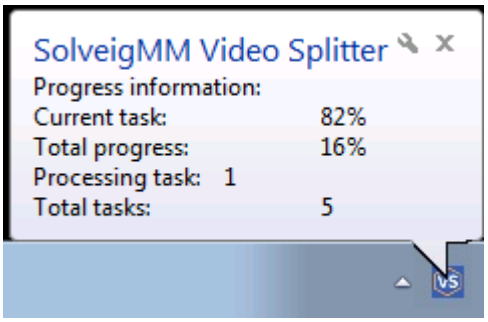
Menu item	Description
Show Program	Restore Video Splitter from the system tray
Show Progress	Show the current progress
Exit Program	Cancel the trim process and exit

The following progress information will be shown if you click the Video Splitter system tray icon:

One trimming task:



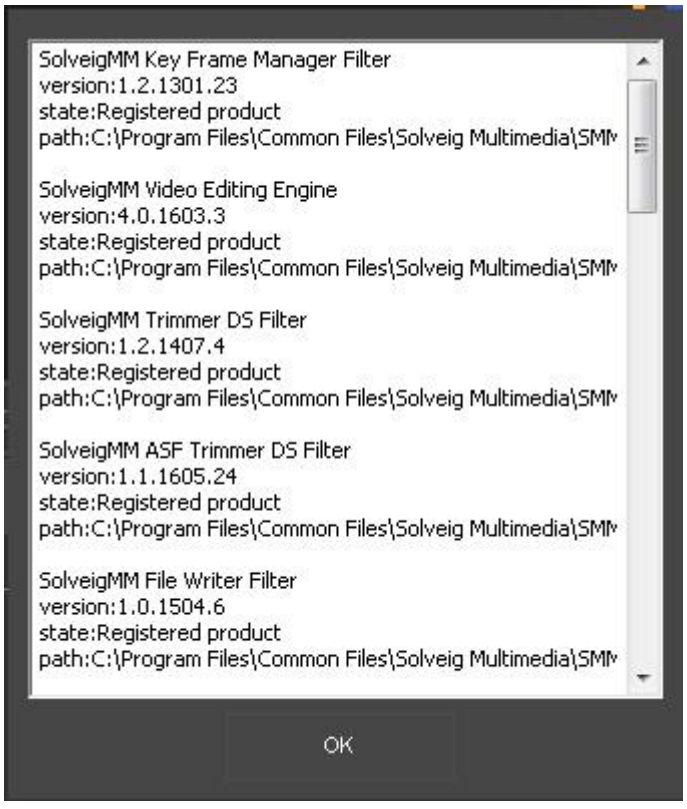
Batch processing:



Filters info window

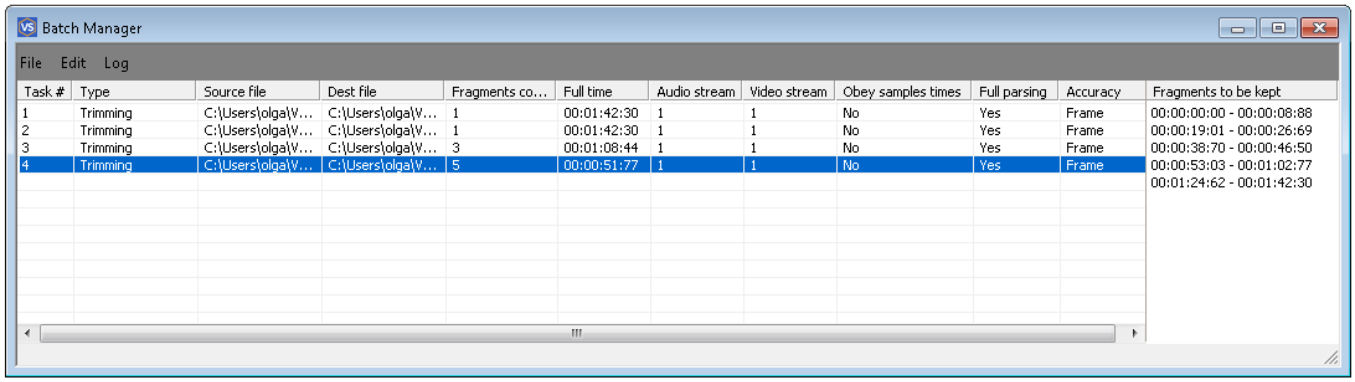
This window contains all the components necessary for Video Splitter to work properly.

1. Click the icon of in the upper left corner of the window (You can use the **Alt + Space** shortcut)
2. Click **Info...**



Batch manager window

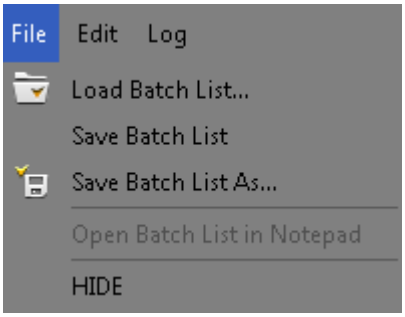
The Batch Manager available only in Video Splitter Business Edition. For more information see destinction between Home Edition and Business Edition.



The Batch Manager window is used to edit the batch queue.

Menu description:

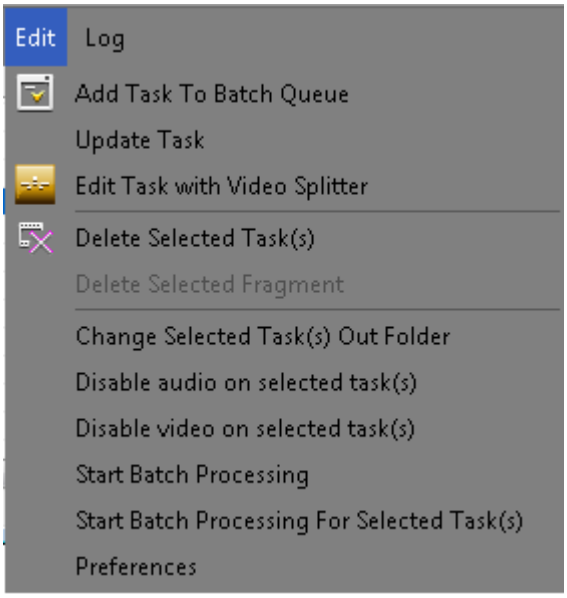
File *menu*



Menu item	Description	Shortcut key
Load Task List...	Load a saved batch queue from a file (*)	-
Save Task List	Save the batch queue to a file	-
Save Task List As...	Save the batch queue to a file to the specified folder	-
Open Task List in Notepad	Open the batch queue in Notepad (*)	-
Hide	Close this window	-

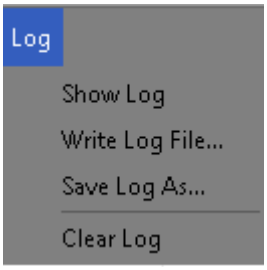
(*) - See Task List syntax in Batch file format

Edit *menu*



Menu Item	Description	Shortcut key
Add Task To Batch Queue	Add the current Video Splitter task to the batch queue	Ctrl + A
Update task	Update the task in the batch queue according to the changes made in Video Splitter	U
Edit Task with Video Splitter	Edit the selected task in the Video Splitter main window	Enter
Delete Selected Task(s)	Delete the selected task(s)	Delete
Delete Selected Fragment	Delete the selected fragment(s)	Delete
Change Selected Task(s) Out Folder	Change the output folder for all selected files. The program will not change the output filenames	
Disable audio on the selected task(s)	Allows to disable audio content of the selected tasks	Delete
Disable video on the selected task(s)	Allows to disable video content of the selected tasks	
Start Batch Processing	Start batch processing	Ctrl + T
Start Batch Processing For Selected Task(s)	Start batch processing for the selected tasks	Shift + T
Preferences	Open preferences window	Ctrl + T

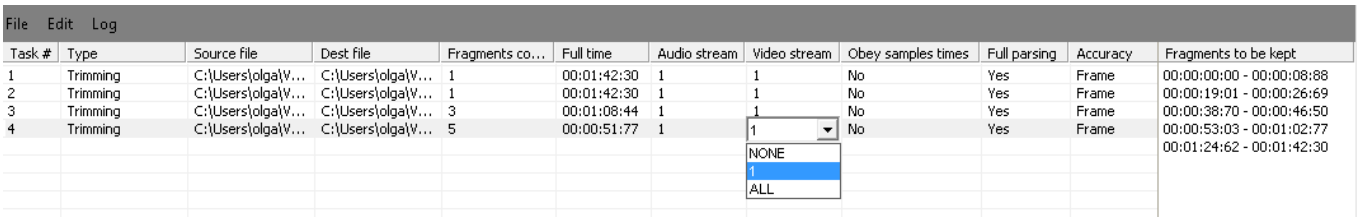
***Log** menu*



Menu Item	Description
Show log	Show or hide the log window
Write log file...	Specify the filename all the messages will be written to during the batch manager operation.

Save log as...	Save all log messages to a file
Clear log	Erase all messages

Task queue field



The list enumerates all tasks in the batch queue:

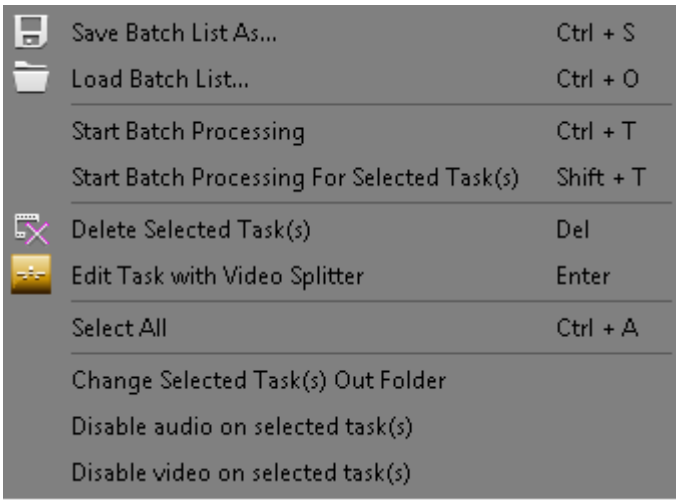
Column description:

Menu Item	Description
Task #	Task number
Source file	Source filename
Dest file	Destination filename
Fragments count	Number of fragments to be cut
Full time	Total final file length
Audio stream	Audio stream number (*)
Video stream	Video stream number (*)
Obey samples times	Use an alternative synchronization algorithm. By default, it is disabled. If the final file is out of sync after repeated trimming, enabling this option should improve audio/video synchronization. (*)
Accuracy	Shows the selected editing accuracy.

(*) - These fields can be edited in the batch manager window. Just click the cell with the left mouse button two times (not a double-click) or click the mouse wheel. You can select the necessary item from the drop-down list depicted below.

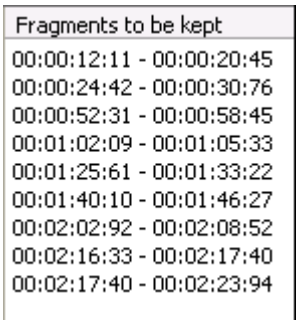
Changing settings in the task list window

Context menu description:



Menu item	Description	Shortcut key
Save Task List As...	Save the batch queue to a task list file.	Ctrl + S
Load Task List...	Load a batch queue from a task list file See Task List syntax in Batch file format	Ctrl + O
Start Batch Processing	Start batch processing	Ctrl + T
Start Batch Processing For Selected Task(s)	Start batch processing for selected task(s)	Ctrl + T
Delete Selected Task(s)	Delete the selected task(s)	Delete
Edit Task with Video Splitter	Edit the selected task in the main window	Enter
Select All	Select all tasks	
Change Selected Task(s) Out Folder	Change the output folder for all selected files. The program will not change the output filenames	
Disable audio on selected task(s)	Allows to disable audio content of the selected tasks	
Disable video on selected task(s)	Allows to disable video content of the selected tasks	

Fragment list

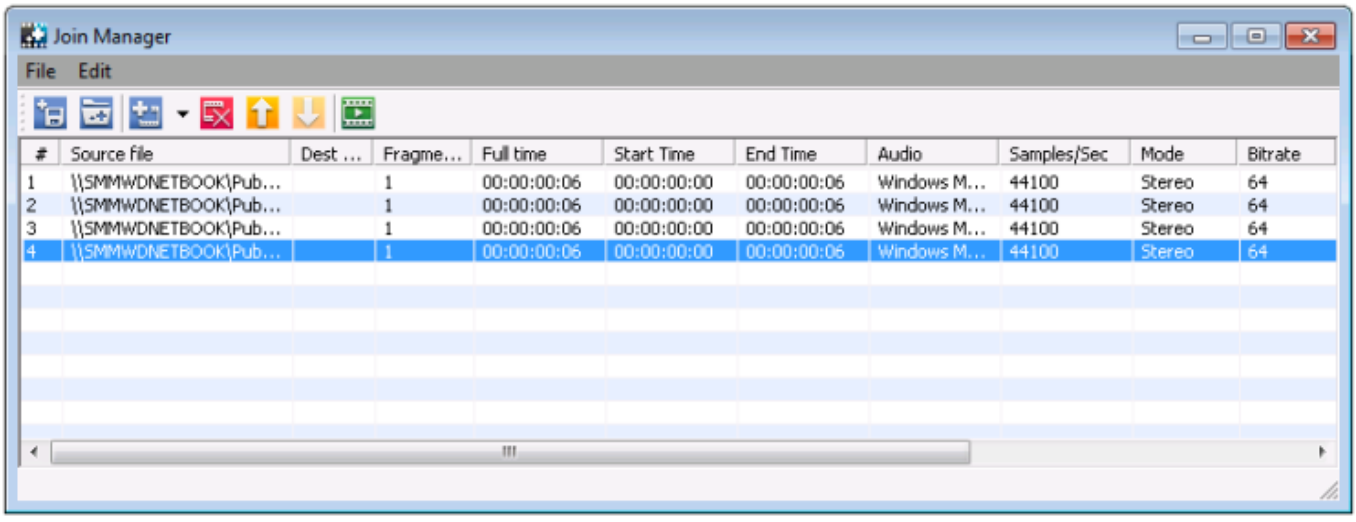


All the fragments to be cut out from the selected task are enumerated here.

Fragment list context menu

Menu item	Description	Shortcut key
Delete Selected Fragment	Delete the selected fragment	Delete
Show the Fragment in Video Splitter	Show and select the fragment in the Video Splitter main window	Enter

Join manager window



Join manager is used to join file with equal parameters like width/height of the frame, video/audio compression etc. Currently supported formats are listed here. The list enumerates all files to be joined together. Only the whole files can be joined for now.

Columns description:

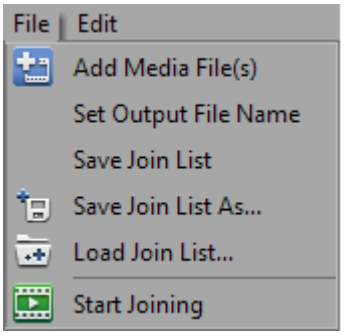
Menu Item	Description
#	File order
Source file	Source file name
Full time	Full time of current file to be appended to resulting file
Start time	Start time of the current fragment of the current file(*)

End time	End time of the current fragment of the current file(*)
Audio	Audio encoding
Samples/sec	Audio sampling frequency
Mode	Audio mode
Bitrate	Audio bitrate
Video	Video compression
Width	Video frame width
Height	Video frame height
Type	the file type

(*) - only full files can be joined so start time is the beginning of the file and end time is the duration of the file.

Menu description:

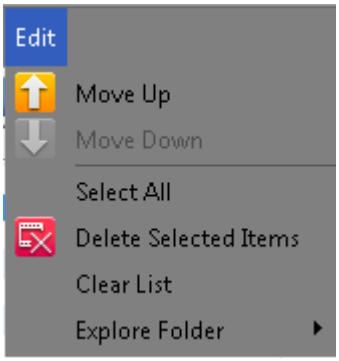
Menu "File"



Menu item	Description	Shortcut key
Add Media File(s)	Add files into the list(*)	Ins
Save Join List	Save current joining task into the file	
Load Join List	Load current task from the file	
Start Joining	Start the joining progress for the current task	

(*) - if you try to add files with different parameters you will be prompted with the appropriate message in the satus bar of the "Join manager".

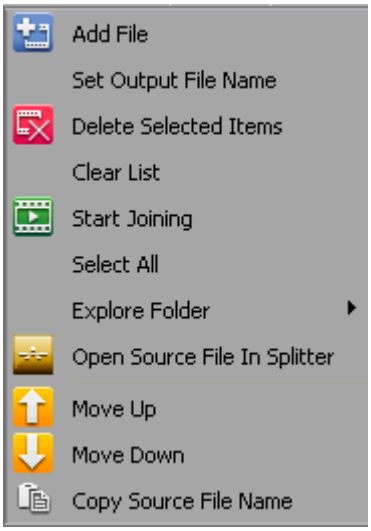
Menu "Edit"



Menu Item	Description	Shortcut key
Move Up	Move selected file up in the list	Page Up
Move Down	Move selected file down in the list	Page Down
Delete Selected Items	Delete all selected items from the list	Del

Clear List	Delete all items from the list	

Context menu:



The context menu commands duplicate menu commands for convenience, and it's "**Add**" and "**Move**" commands are applied to chosen file in the list (the highlighted one). Others are applied to the list in general.

Join manager toolbar

The toolbar also duplicate some commands that allow you to perform joining not opening the main Join Manager window.

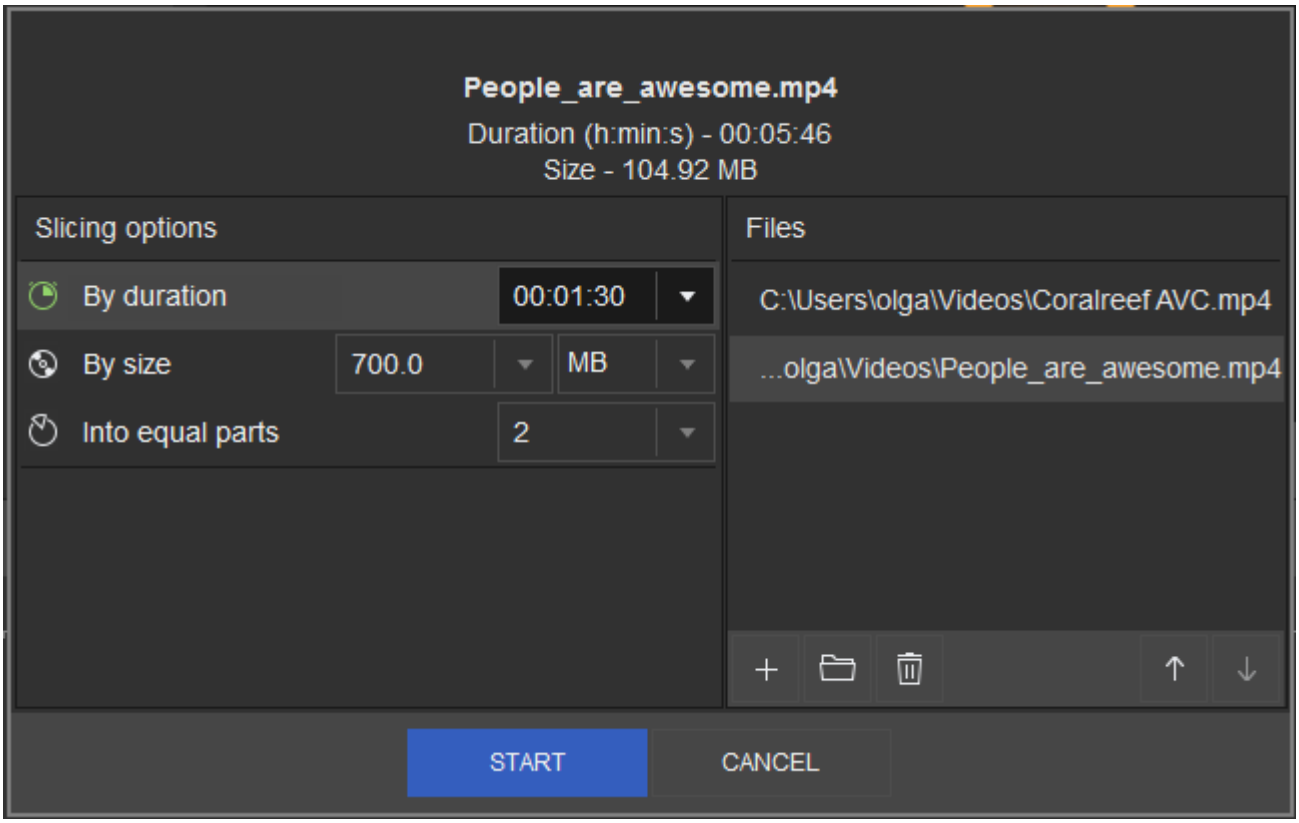
Toolbar Item(left to right)	Description
Start Joining	Starts current joining task
Show / Hide	Shows / Hides the Join manager main window
Add File(s)	Adds files into the list
Load List	Loads joining task from file

Slicing window

Slicing window allows to fulfill splitting of the file into parts. Fragements length can be specified by duration, by size or by number of equal parts.

To open the slicing window follow to **Tools -> Slicing..** or **Edit -> Slicing..** menu and open one or several files you would like to slice.

The slicing window is depicted on the screenshot below:



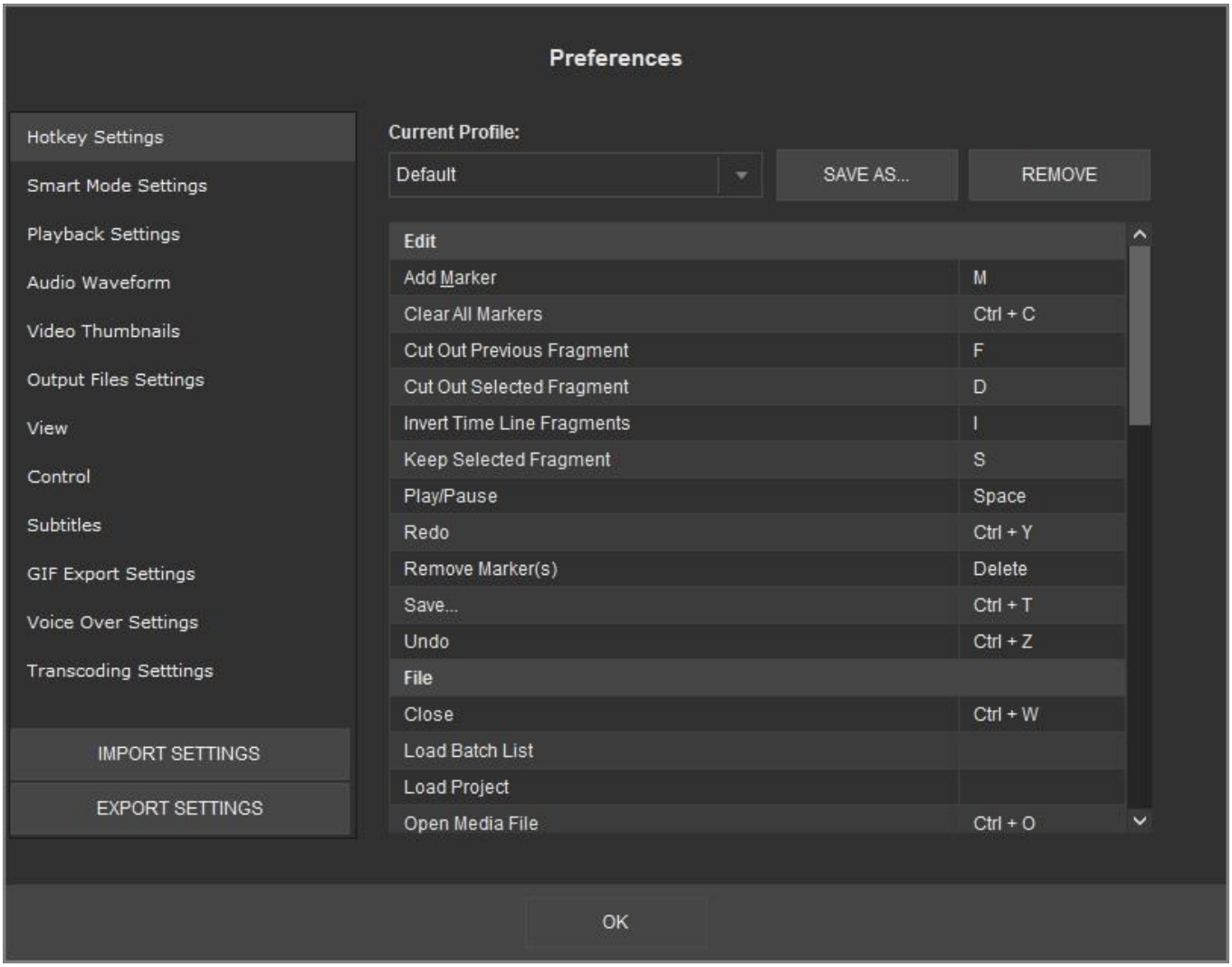
To start slicing, select the type of spliting: by duration, by size, into equal parts. Enter the value for the selected type of slicing. You can change the order of the files prepared for slicing using appropriate buttons with arrow icons.

This window also displays the duration and the size of the file or current project.

Click "Start" to begin the slicing.

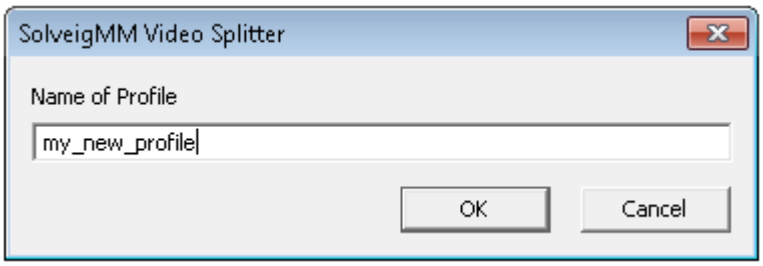
Preferences window

"Hot Keys Settings" tab



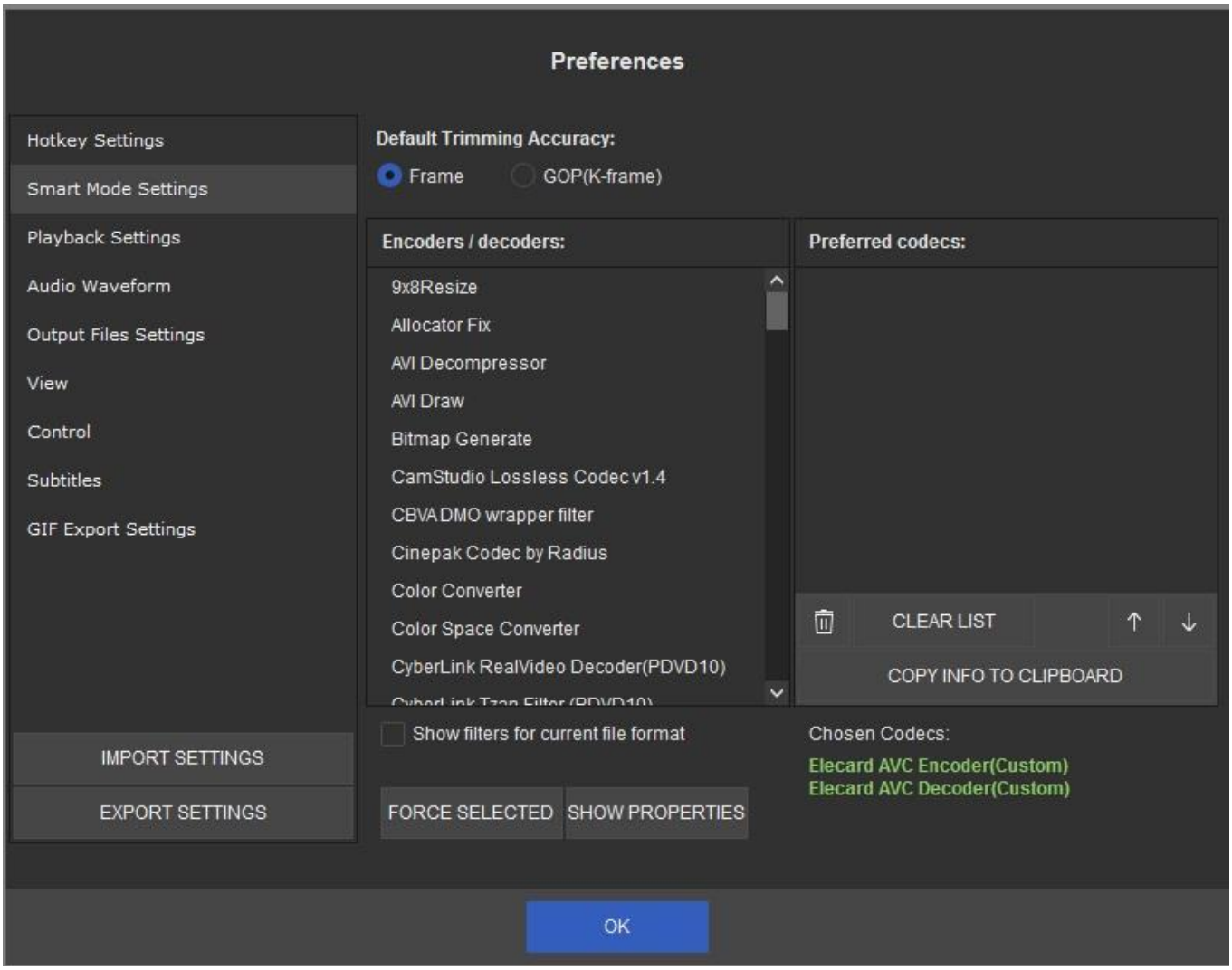
Video Splitter allows to choose the defined settings of your desired hot key profile.

Simply enter your hot key for the chosen operation (right column), click **Yes** in the appeared information window and then enter the desired name for the new profile, then click on the **OK** button. The new profile will appear in the **Current Profile** combobox.



You can remove your profile by selecting the needed one in the "**Current profile**" combobox and clicking on the **Remove** button.

"Smart Mode settings" tab

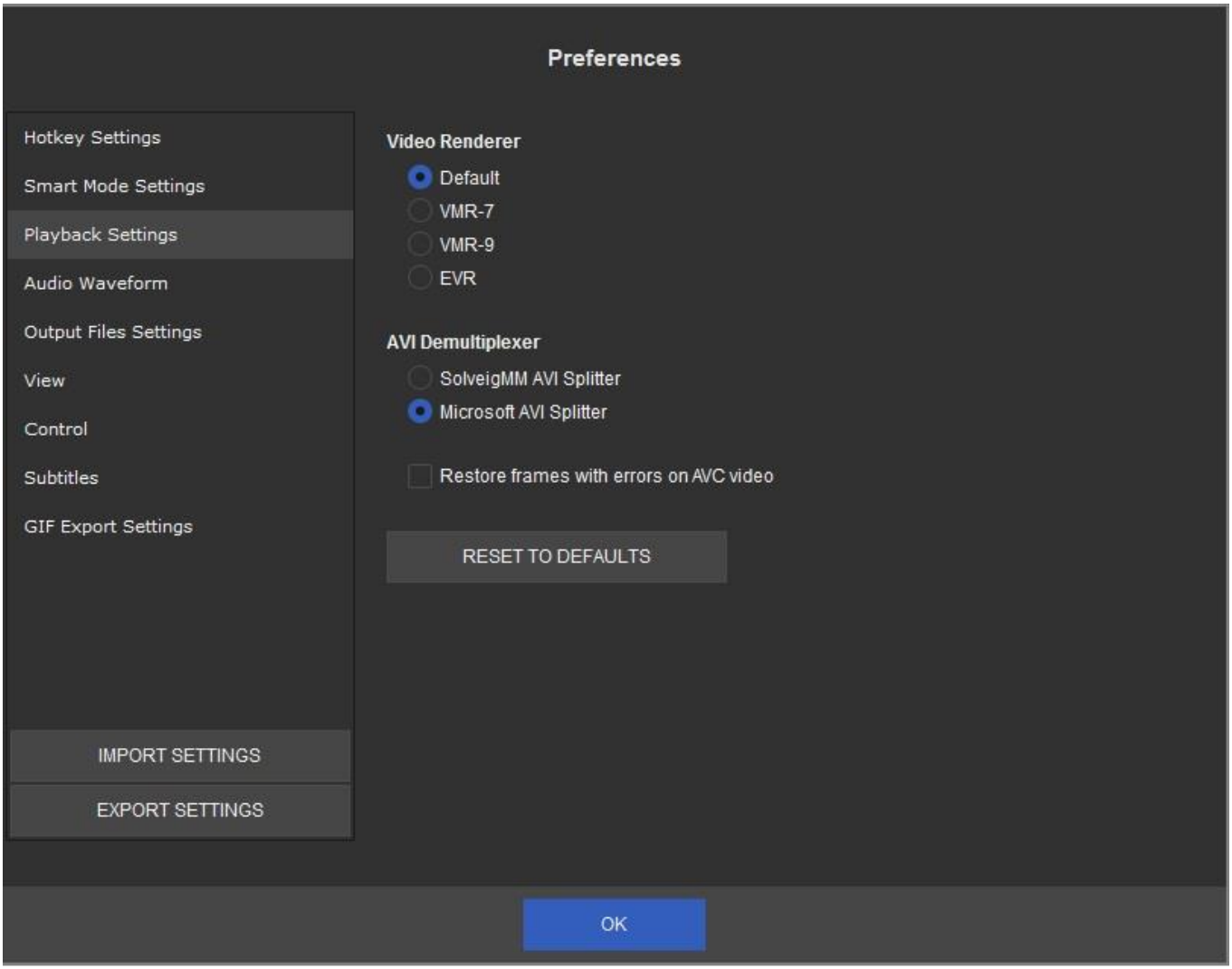


Smart Mode Settings window allows to choose the decoder and encoder that will be used in re-encoding process of first and last GOP when frame accuracy trimming (Smart Mode) is enabled.
To select the desired codeñ, choose one or several from the **Encoder/decoders** list and press the **Force selected** button.
The chosen codec will appear in the **Preferred codecs** list.
You can choose several codecs from the **Encoder/Decoder** list. All they will be placed to preferred codec "**Preferred codecs**" area.

Important notice: the decoder or encoder can be forced only for **WMV** and **AVI**.

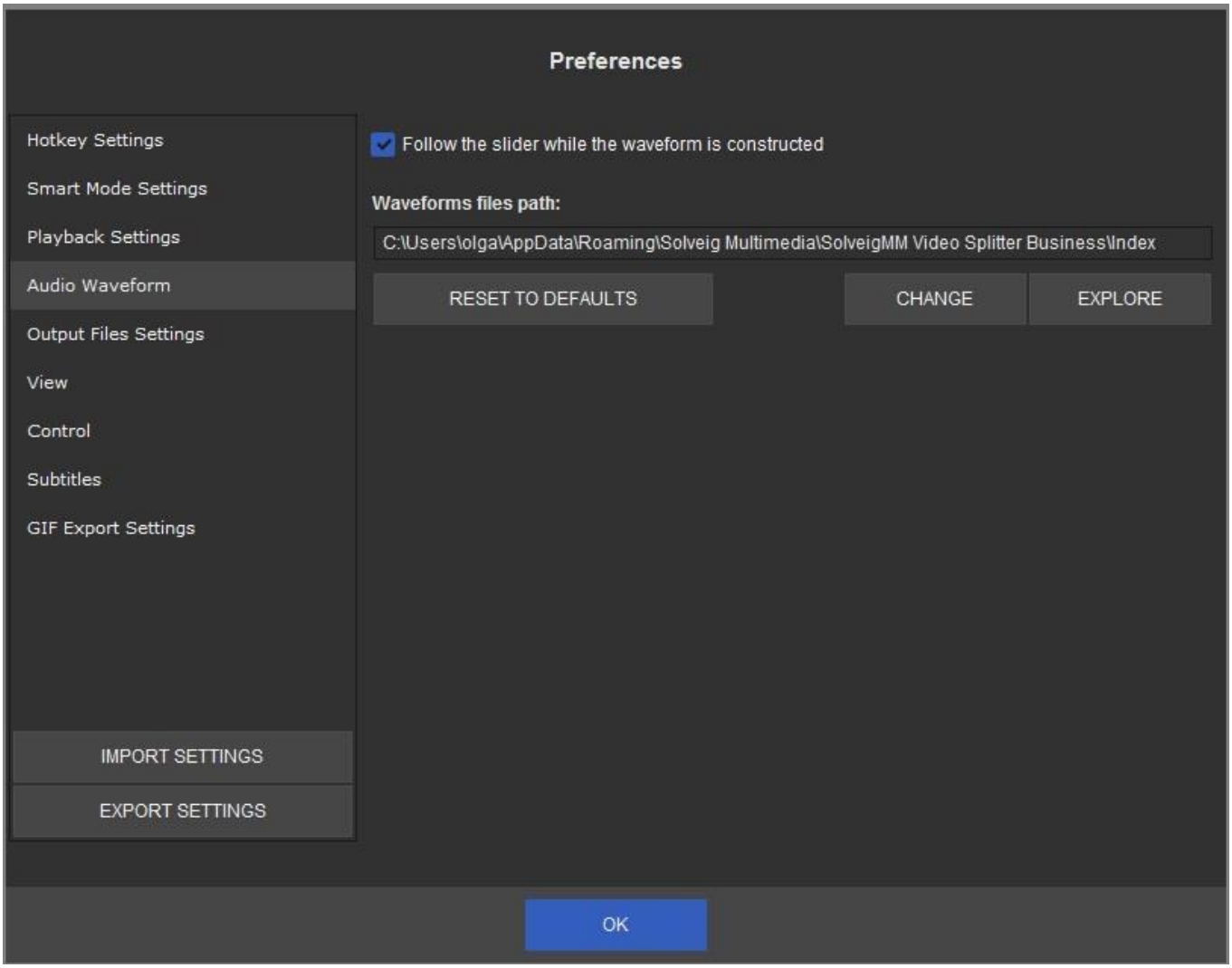
Video Splitter uses codec that will be suitable for the format of the opened file.
You can use **Move Up** and **Move Down** buttons, to change the priority of the chosen codec.

"Playback Settings" tab



This tab allows to select video renderer.
If the default video renderer is not worked, then it is possible to select another video renderer.
EVR video renderer is recommended for users of Windows 7 if fps of video is more then 30.

"Audio Waveform" tab

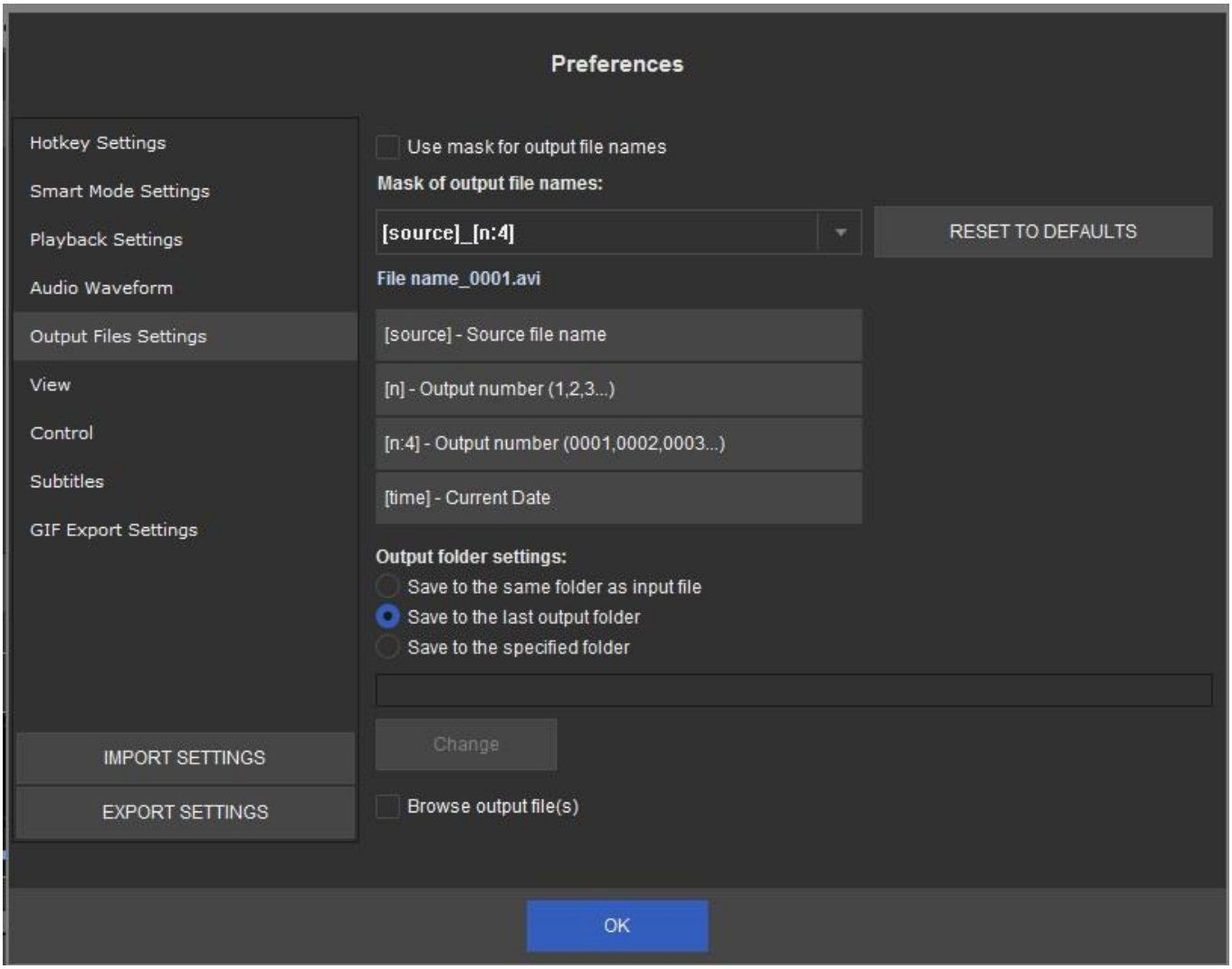


"**Waveforms files path**" setting defines waveform data cache path, that is used by Video Splitter.

"**Follow the slider while the waveform is constructed**" defines the way of waveform building. When the option is enabled the waveform will be built from the selected by the user slider position. Tick this checkbox if you would like the waveform building follow the slider movements.

If you would like you can change the file path for this file to keep free space on the system drive.

"Output Files Settings" tab



Output files settings tab allows to set mask of the output file and select output folder settings. The files mask is intended to generate the names of the output files, using build-in macroses.
The mask is the template that consist of macros. It is possible to add predefined macros using special buttons under the "**Mask of output file names**" line to current cursor position at template edit box.

Output file mask format:

[source] uses the name of the source file for the target.

[n] macros automatically numbers the (one or more) target. Target will automatically be numbered, if parameter is set, even if source name is not used.

[n:4] macros is the current number of fragment with defined minimum number of characters printed. Zeros are added to the left of the values.

[time] macros is intended for defining the current date time of the output file name.

[n:resetnextday] output number will be incremented during a day and reset nte next day.

[time] output current date and time in the following structure: YYYY_MM_DD_hh_mm_ss.

[time:YYYMMDD] output current date and time in the user-defined structure. in this example - YYYYMMDD.

[computerid] outputs the idendificator of the working PC. It can be set in the **Computer ID** field.

To add the required macros just click on the button with the macros name and then change it in the **Mask of the output files names** field if needed.

You can change the order of this macroses to get the files with names that will be suitable for you.

To reset the mask to initial view, just click on the **Reset to defaults** button.

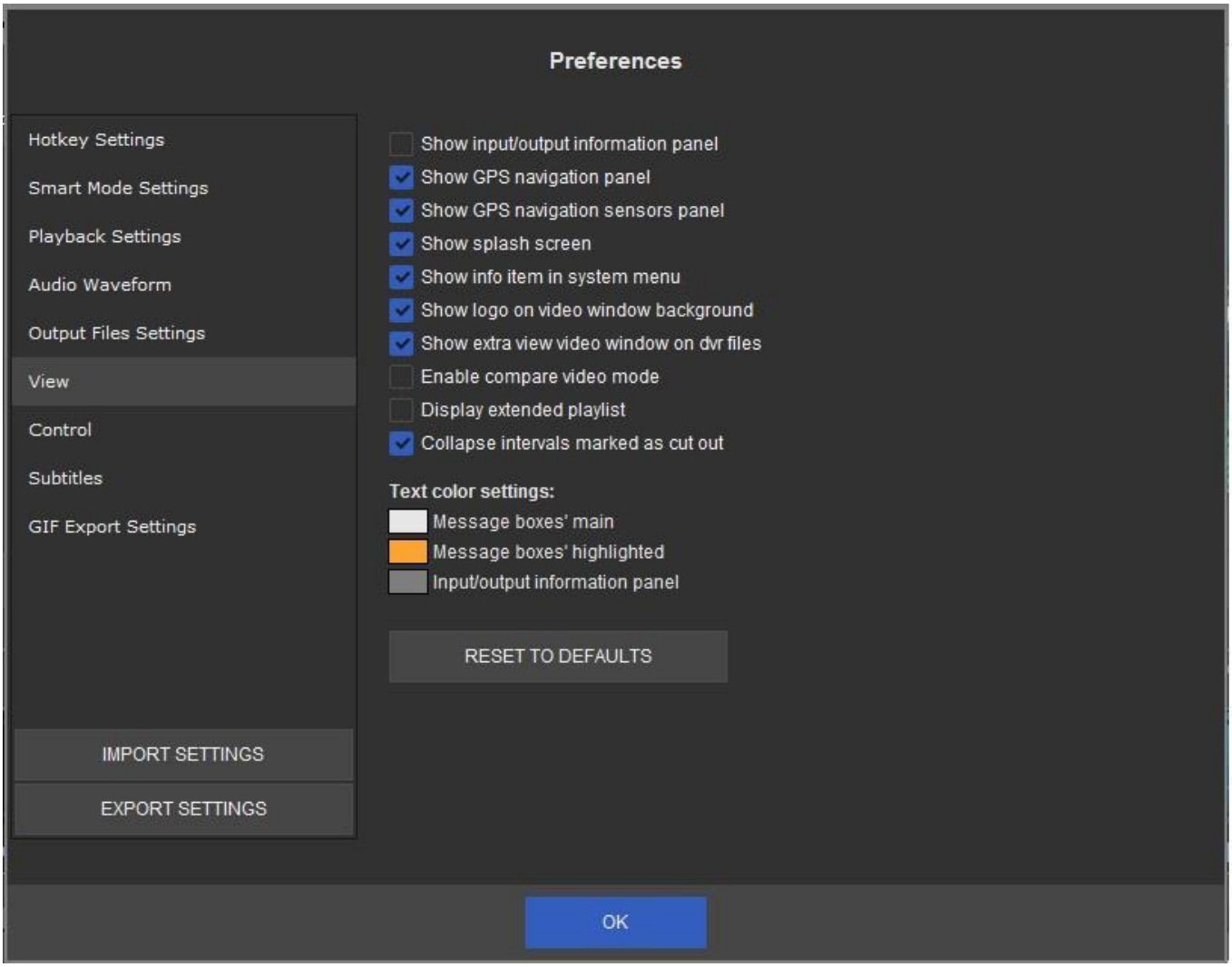
Below please find examples of mask templates and the output files names.

For example we have the **Video.avi** input file and would like to save three fragments from the file. We make this operation on September 25, 2012 at 18:50:30.

The mask template	The output file name
[n]	1.avi 2.avi 3.avi
[source]_[n]	Video_1.avi Video_2.avi Video_3.avi
[source]_[n:2]	Video_01.avi Video_02.avi Video_03.avi
[source]_[n]_[time]	Video_1_2012_09_25_18_50_30.avi Video_2_2012_09_25_18_50_30.avi Video_3_2012_09_25_18_50_30.avi

Output folder settings allows to define the output folder.
It is possible to save to the same folder of the input file, save to the last output folder or save to the specified folder.

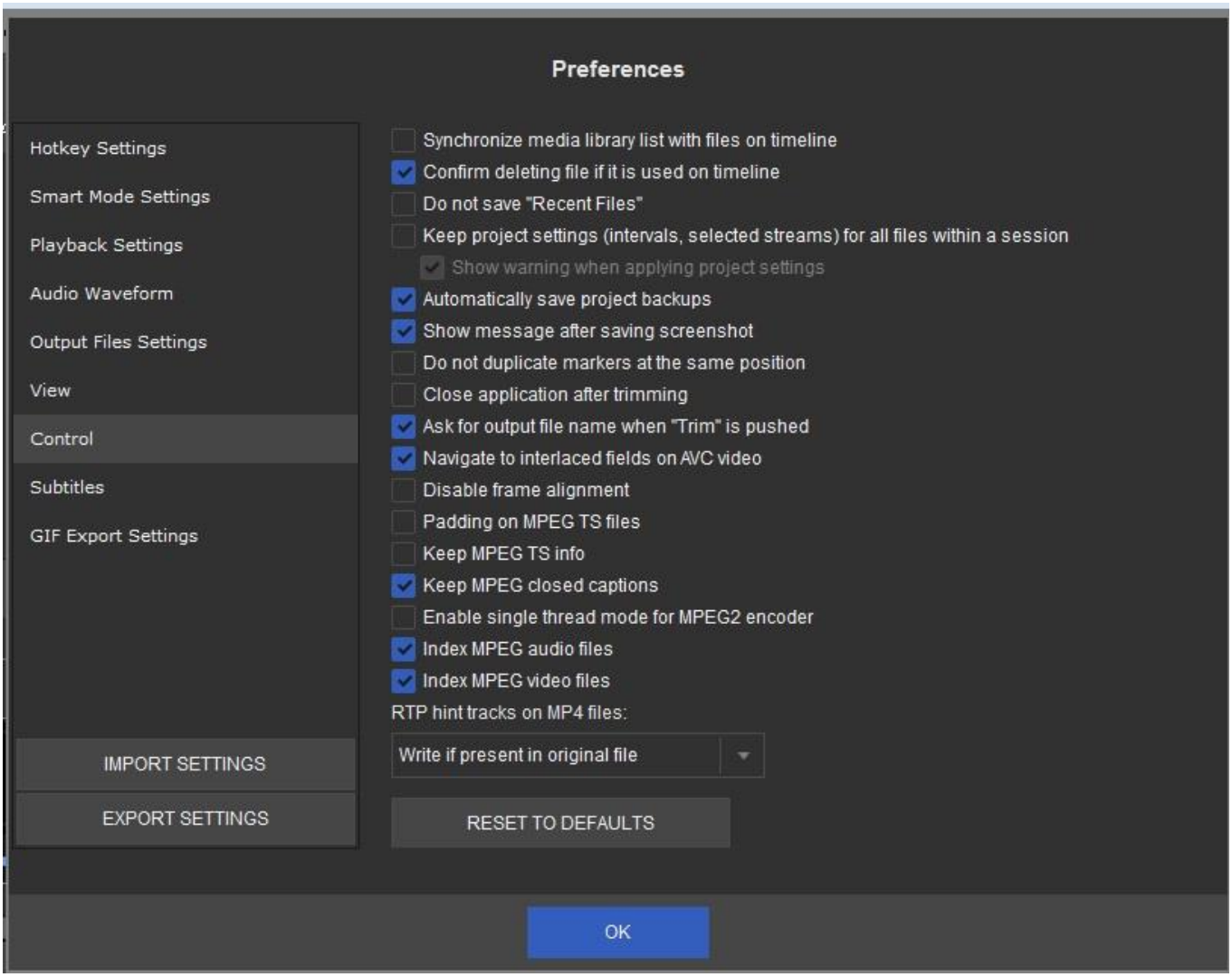
"View" tab



Setting	Description
Show input/output information panel	Allows to show or close input/output information panel
Show GPS navigation panel	Allows to show or close GPS navigation panel
Show GPS navigation sensors panel	Allows to show or close GPS navigation sensors panel
Show splash screen	Allows to show or close splash screen on the product start
Show info item in system menu	Allows to show info item in system menu
Show logo on video window background	Allows to show or hide logo on video window background
Show extra view video window on dvr files	Allows to show extra view video window of rear camera on dvr files
Enable compare video mode	Allows to show compare video mode

It is possible to set in this tab the text color for message boxes and text for input/output information panel.

"Control" tab



Setting	Description
Don't save "Recent files"	Allows to disable saving of recent files in Recent files history
Keep project settings (intervals, selected streams) for all files within a session	Allows to save project settings (intervals, selected streams) for all files within a session
Show warning when applying project settings	Allows to enable or disable showing of warning message when applying project settings
Automatically save project backups	Allows to automatically save project backups
Show message after saving screenshot	Allows to show the message after saving of screenshot
Don't duplicate markers at the same	Disallows duplicating markers at the same position

position	
Close application after trimming	Allows to close automatically the application after trimming
Ask for output file name if "Trim" pushed	If chosen, the application asks destination file name on trimming
Navigate to interlaced fields on AVC video	Allows to navigate to interlaced fields on AVC video
Disable frame alignment	Allows to disable frame alignment. This feature is required for the accurate editing of audio. With this feature the selected position on the timeline is aligned accurately according the selected time position. Otherwise the selected position is aligned according the time position of the frame beginning that leads to changing from constant frame rate to variable for video as a side effect.
Padding on MPEG TS files	Allows to make padding on MPEG TS files
Keep MPEG TS PIDs	Keeps elementary transport stream PIDs in transport stream format
Saving MPEG2 closed captions data on re-encoded frames	Allows saving closed captions data in VES stream on re-encoded frames
Enable single thread mode for MPEG2 encoder	Option enables this mode in Elecard encoder. If it is disabled it generates at different runs on the same raw data different encoded stream)
Index MPEG audio files	Allows to index MPEG audio files
Index MPEG video files	Allows to index MPEG video files
RTP hint tracks on MP4 files	Option is used for the preservation of RTP hint track information used by the streaming server (eg Darwing) in the broadcasting. Without this data for example Darwing streaming server will not work with the output file.

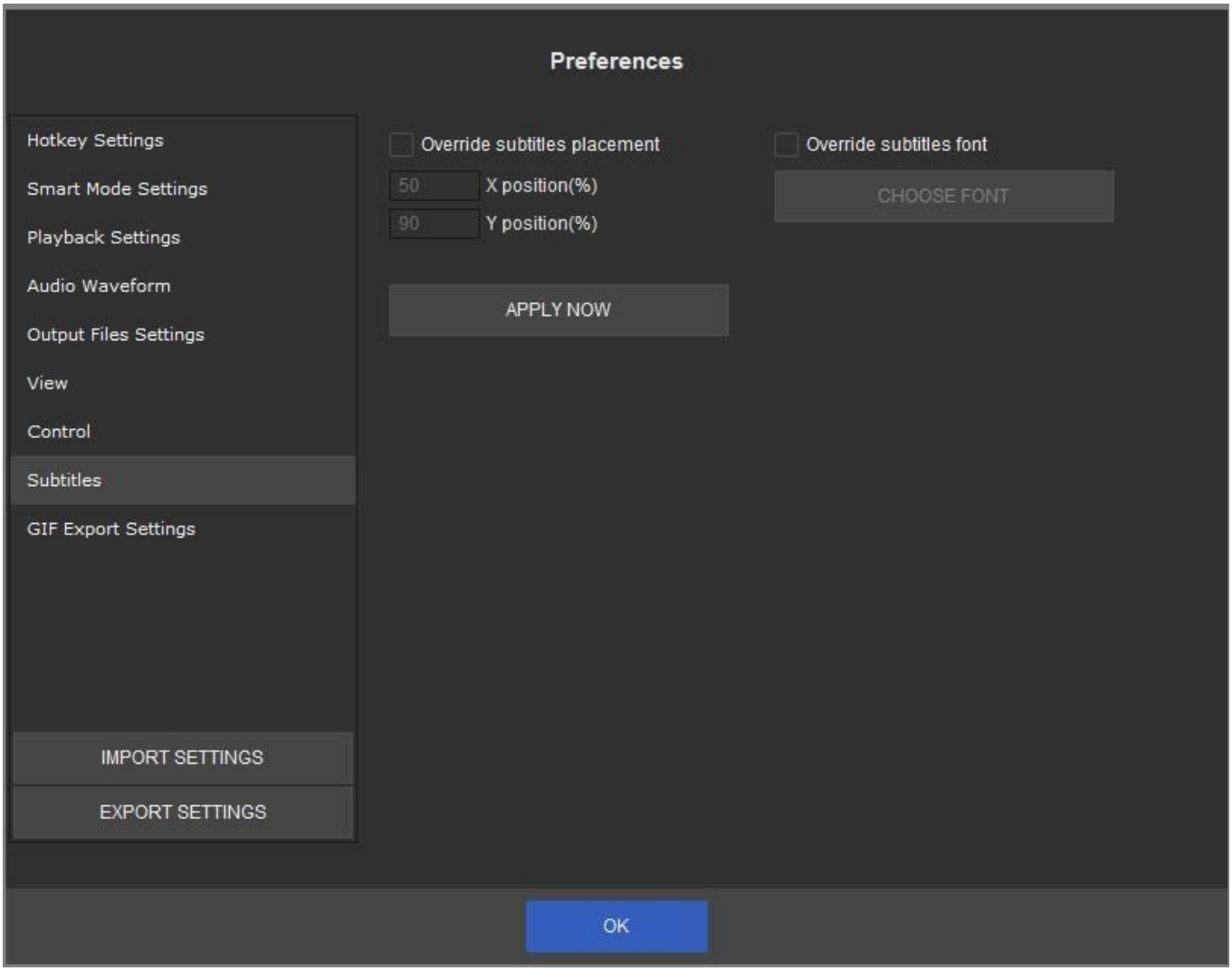
It is possible to set in this tab the text color for message boxes and text for input/output information panel.

"Subtitles" tab

The "Subtitles" tab allow to make settings for placement and font of subtitles for output files.

It is possible to select new position of subtitles in the resulted file by clicking the "Override subtitles placement" and by entering new values of X, Y positions.

To change the subtitles font, please select "Override subtitles font" and click the "Choose font" button.



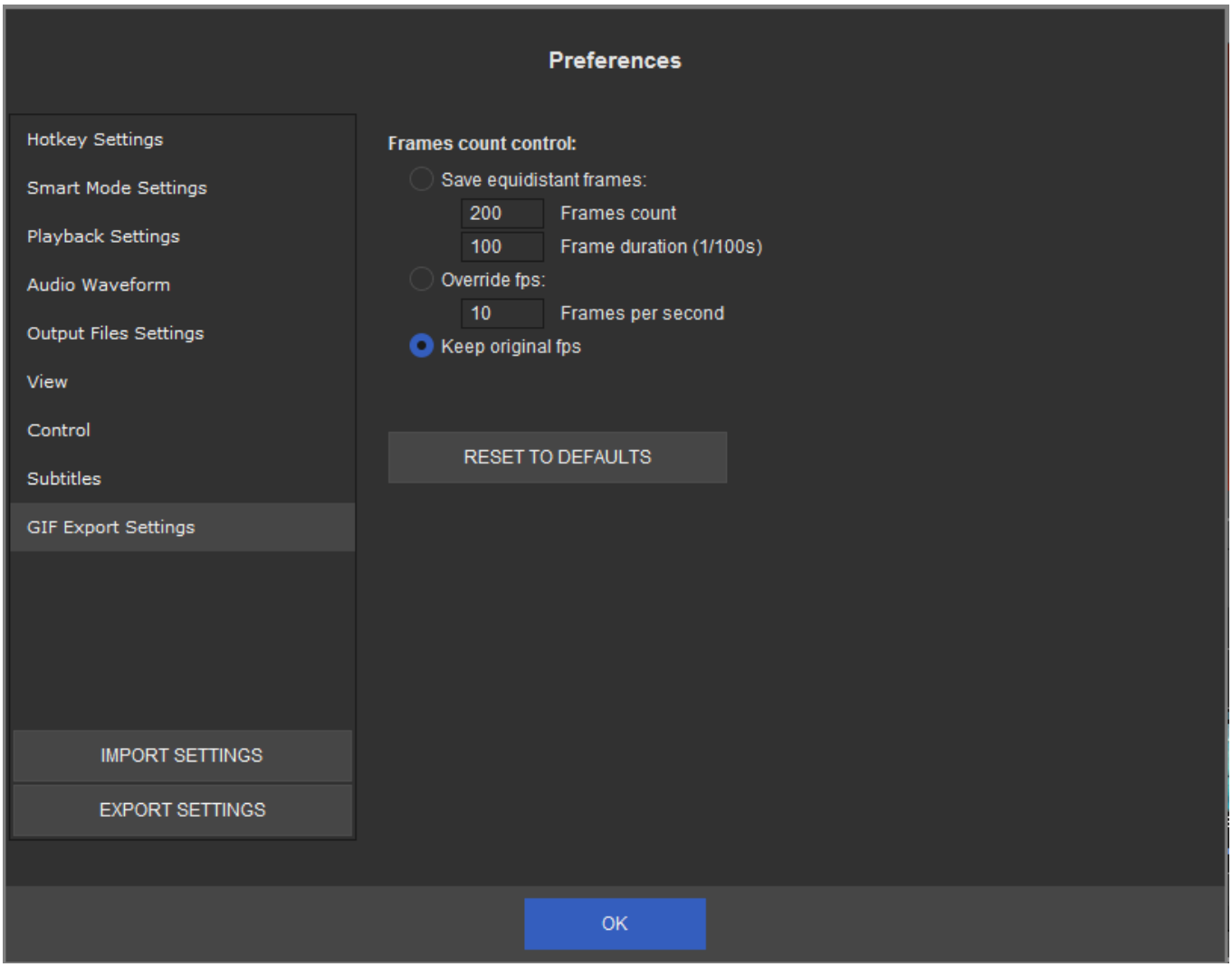
"GIF Export Settings" tab

"GIF Export Settings" tab allow to make special settings for GIFs that Video Splitter could create.
You could set frames count control:

- Save equidistant frames:

- Frames count
- Frame duration (1/100s)

- Overide fps - set frames per second value
- Keep original fps



Using Solveig Multimedia Video Splitter

In this section:

- Opening a source file
- Using the splitting controls
- Saving a media file
- Starting the trimming process
- Working with the batch queue
- Working with MPEG-2 files

Opening a source file

Operations with files are performed via the menu bar in Solveig Multimedia Video Splitter.

To open a source file, go to the menu bar, select **File** -> **Open Media File...** Select your video file in standard **Open File** dialog box. This file will not be changed, deleted or moved during the splitting process.

To set the destination file, select **File** -> **Output File...** and specify the name for the destination file. If a file with the same name already exists, you will be asked if you want to replace the old file with the new one. You can overwrite the old file or specify a new filename for the destination file.

If the file you edit contains several audio and/or video streams then after the file opening you will see Stream selection window, where you can select video and audio tracks for preview and editing.

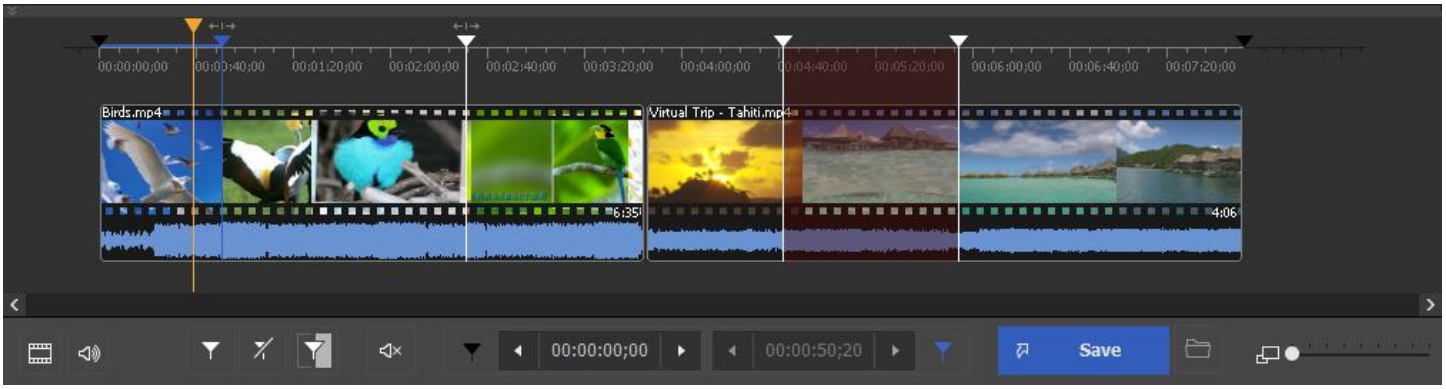
See also: **File** menu, Stream selection window.

Using the splitting controls

Before you start the trimming process, you should define the fragments you want to be cut or kept in the output file.

To add a new fragment to the slider:

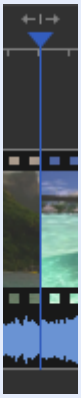
1. Navigate to the beginning of the future interval
2. Press the **Set New Marker** key **(M)** or select the **Edit** -> **Set New Marker** menu item from the menu bar
3. Navigate to the end of the future interval
4. Repeat step 2
5. If necessary, mark the interval as "Cut Off" by selecting **Edit** -> **Cut Off Selected Fragment (D)** or pushing the "Scissors" ( ) button
6. If you need to change the start or stop interval positions, just double click on the collapsed marker and drag the markers to their new positions



Sample intervals:

Fragment color	Description
	This fragment is set to be kept. It will be present in the final movie. The blue color of markers means you can edit it (delete, set it to be kept, etc.)
A:	A: Deployed state of the cut out fragment. This fragment is set to be deleted. It will not

B:



be present in the final movie
The blue color of markers means you can edit it (delete, set it to be kept, etc.).

B: Collapsed state of the cut out fragment.

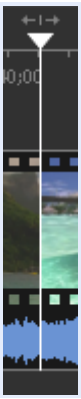
This fragment is set to be kept. It will be present in the final movie.
The white color of markers means that this fragment can not be edited.

A:

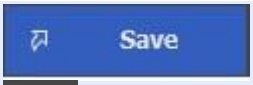
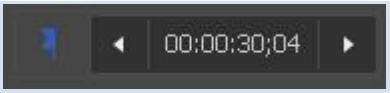
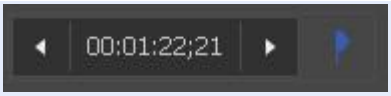
B:

A: Deployed state of the cut out fragment. This fragment is set to be deleted. It will not be present in the final movie.
The white color of markers means that this fragment can not be edited.

B: Collapsed state of the cut out fragment.

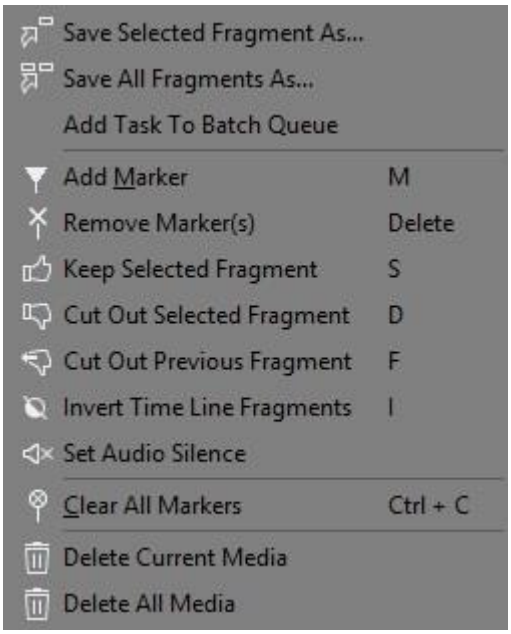


Splitting controls

Window Item	Description	Shortcut key
	Add New Marker: Add a new marker to the current slider cursor position.	M
	Delete Marker: Remove selected marker or markers.	Delete
	Set audio silence: allows to set audio silence for the chosen fragment	
	Save: Start trimming or batch processing (if there are any tasks in the batch queue) Browse output file	Ctrl + T
	Left marker cursor time position. You can edit this value manually	
	Right marker cursor time position. You can edit this value manually	
	Zoom: Increase or Decrease the slider timeline resolution to make editing neighbouring markers more comfortable (*)	NumPad + NumPad -
	Story board Off/On: turn on/off the story board	
	Audio waveform On/Off: turn off/on the audio waveform	
	Get screenshot: allows to make the screenshot of the chosen video frame Browse screenshot: allows to open folder with the created screenshot	
	Mute selected audio track. Muted track will not be present in either the preview or the output file.	
	Minimize selected track on the timeline.	

	Displays zoom popup menu	
	Invert intervals selection	

Slider context menu



Menu item	Description	Shortcut key
Save Selected Fragment As...	Specify the output filename and immediately save the selected fragment (start the trimming process)	
Save All Fragments As...	Specify the output filename and immediately save all fragments (start the trimming process)	
Add Task To Batch Queue	Allows to add Task to Batch Queue	
Add New Marker	Add a new marker to the current slider cursor position	M
Remove Marker(s)	Remove the current marker or fragment	Delete
Keep Selected Fragment	Sets the type of the selected fragment to be kept	S
Cut Out Selected Fragment	Set the type of the selected fragment to be cut	D
Cut Out Previous Fragment	Set the type of the previous fragment to be cut	F
Invert Time Line Fragments	Invert time line fragments	I
Set audio silence	Allows to mute sound of the selected fragment	
Clear All Markers	Remove all markers	Ctrl + C
Delete Current Video	Allows deleting the current video file from the multitimeline	

Starting the trimming process

To start the trimming process after you set all the fragment you want to be deleted/saved, select **File** -> **Save Media File As...** (for details, see **File** menu) or click the **Save Media File As..** quick button (for details, click the

Trim button (for details, see Splitting controls)

Note: You can save (trim) any selected fragment using the **Save Selected Fragment As..** item from the slider context menu (for details, see Splitting controls)

Working with the batch queue

To create a new batch queue (task list):

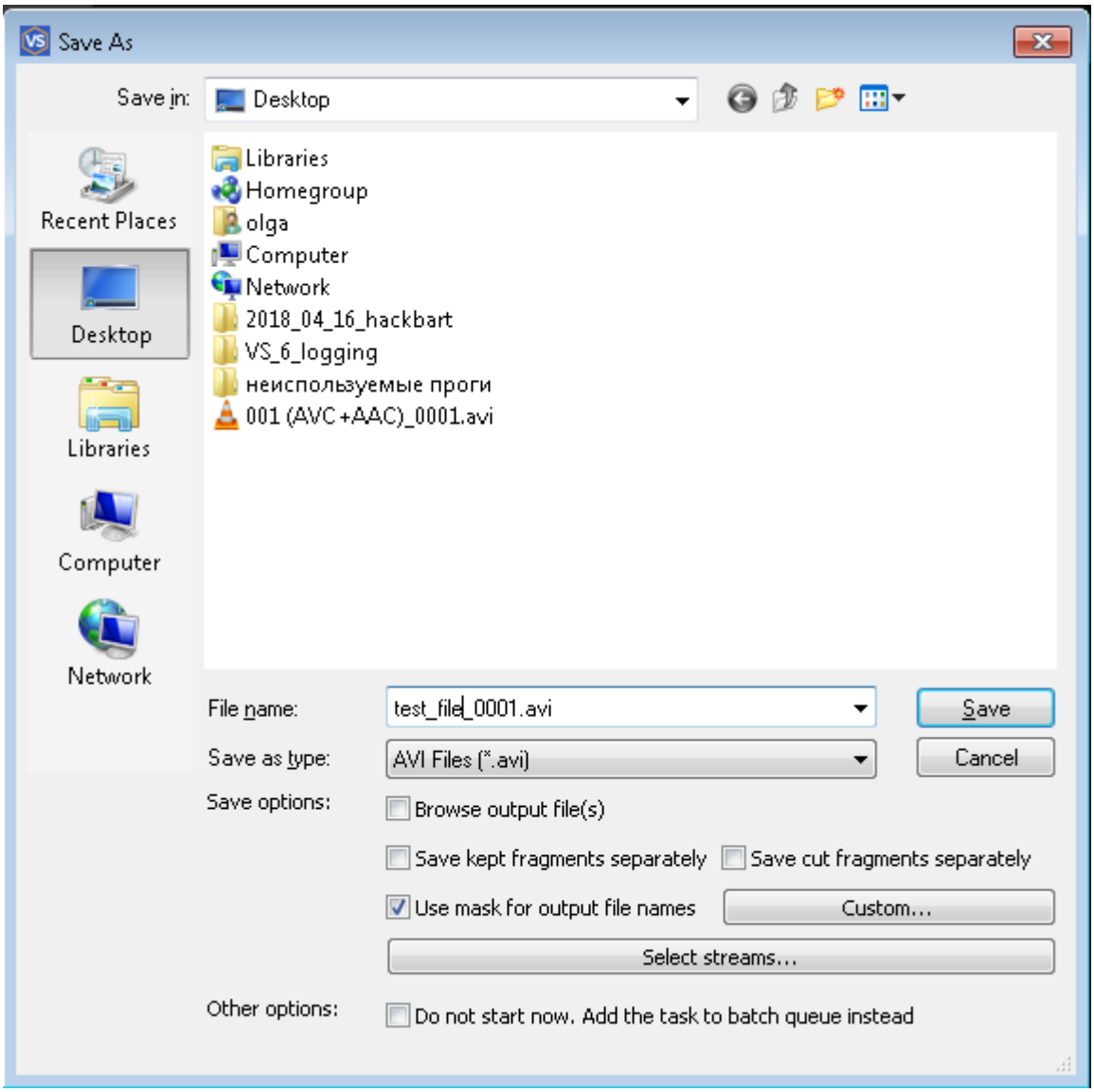
1. Open the media file you want to edit, set all the fragments you want to be saved/removed. For details, see Opening source file and Solveig Multimedia Video Splitter interface

2. Add the task to the queue. To do it, select **Tools** -> **Batch Manager** -> **Add Task To Batch Queue**

3. Repeat steps 1 and 2 for all the files you want to process.

See also **Tools** menu, Keyboard shortcuts

Also, you can add a task to the queue by selecting **File** -> **Save Media File As...** from the menu, or clicking the Information panel quick button, or selecting the **Save selected fragment as..** item from the slider context menu (for details, see Splitting controls). You should select the **Use mask for output files names** checkbox as shown below:



To open the Batch Manager window, select **Tools** -> **Batch Manager** -> **Show Batch Manager** on the menu or select **Tools** -> **Batch Manager** -> **Load Task List...** to open a task list file.
The Batch Manager window allows you to change audio/video streams, the **Obey samples times** attribute, delete any fragments, etc. For details, see Tasks queue field.
To edit a task, you have to open it in Video Splitter, change its fragments or settings and update it:

1. Select the task you need to edit. Select the **Edit** -> **Edit Task with Video Splitter** menu item or the **Edit Task with Video Splitter** item from the context menu or press the **Enter** hot key. For details, see Tasks queue field, Keyboard shortcuts

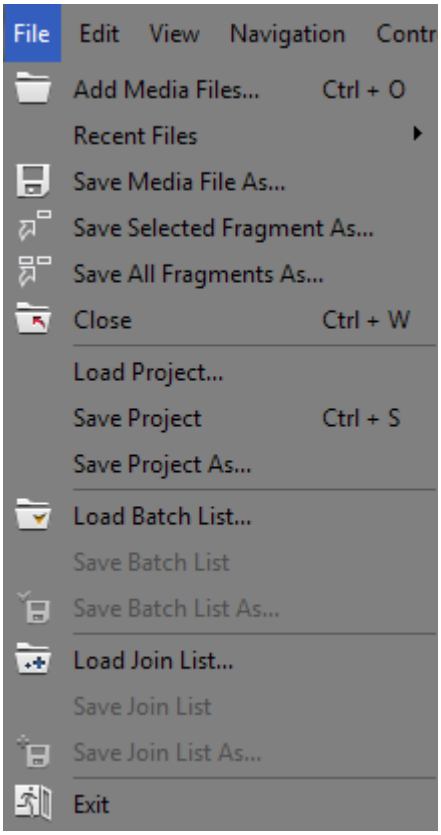
2. Edit the task in the Video Splitter main window. To view the existing fragments in Video Splitter, you can use the Fragment list field. To do it, select **Show the Fragment in Video Splitter** from the context menu or press the **Enter** hot key. For details, see Keyboard shortcuts

3. After you edit the trimming settings in Video Splitter, update the task in the batch queue by selecting the **Tools** -> **Batch Manager** -> **Update Task** menu item or the **Edit** -> **Update Task** item in the Batch Manager window.

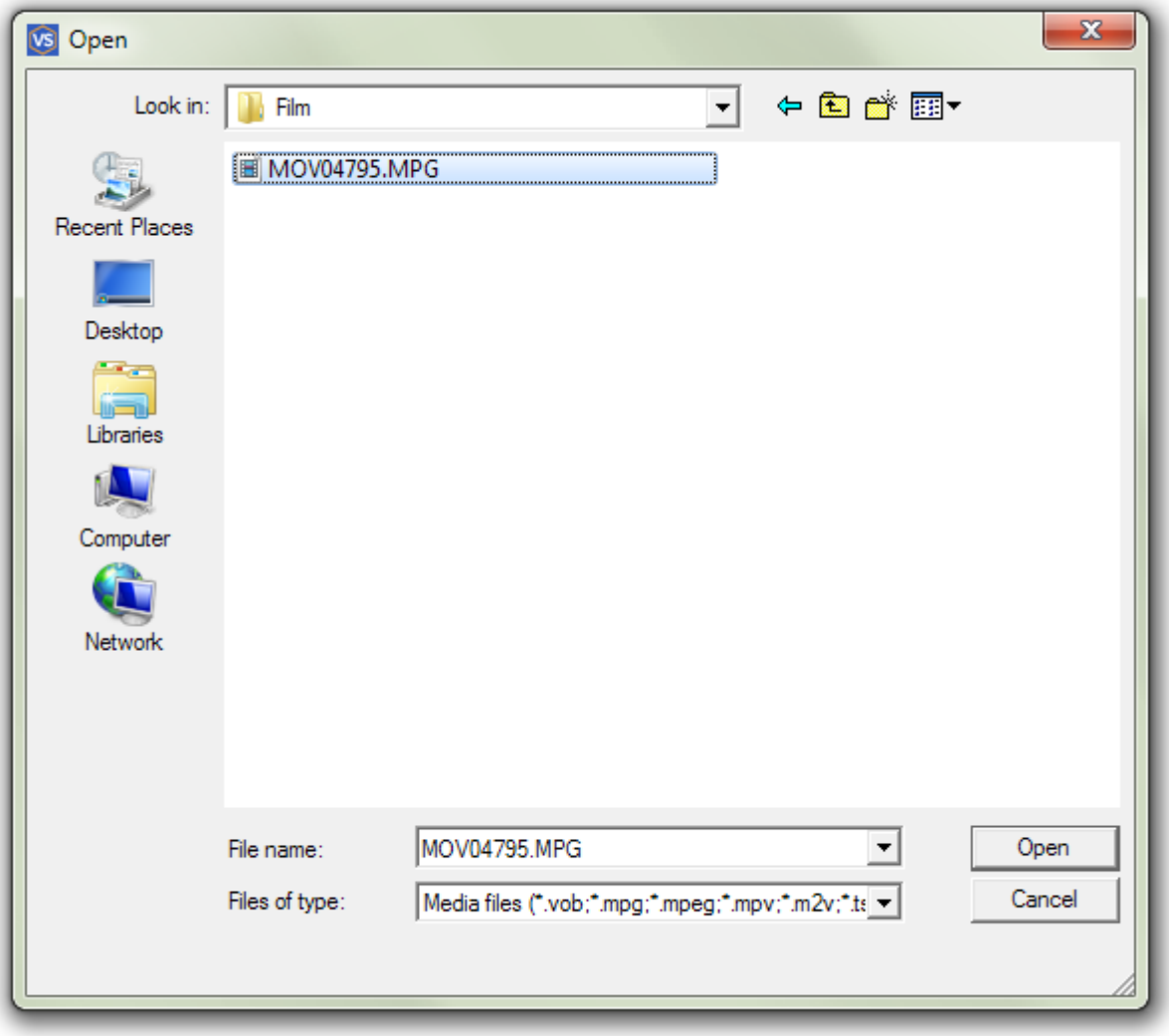
Working with MPEG-2 files

This section describes how to use SolveigMM Video Splitter with MPEG-2 video.

Open the MPEG-2 video file you want to split:
Select **File** -> **Open Media File...** from the menu.



The standard Windows **Open File** dialog box will appear.



Select the video file and click **Open**.

Note. Indexing the MPEG file is recommended but not required.

With no index, you will not be able to use K-Frames and the trimming process can be inaccurate. You could enable/disabple option in the **Preferences -> Control** tab to "Index MPEG audio" or "Index MPEG video files".

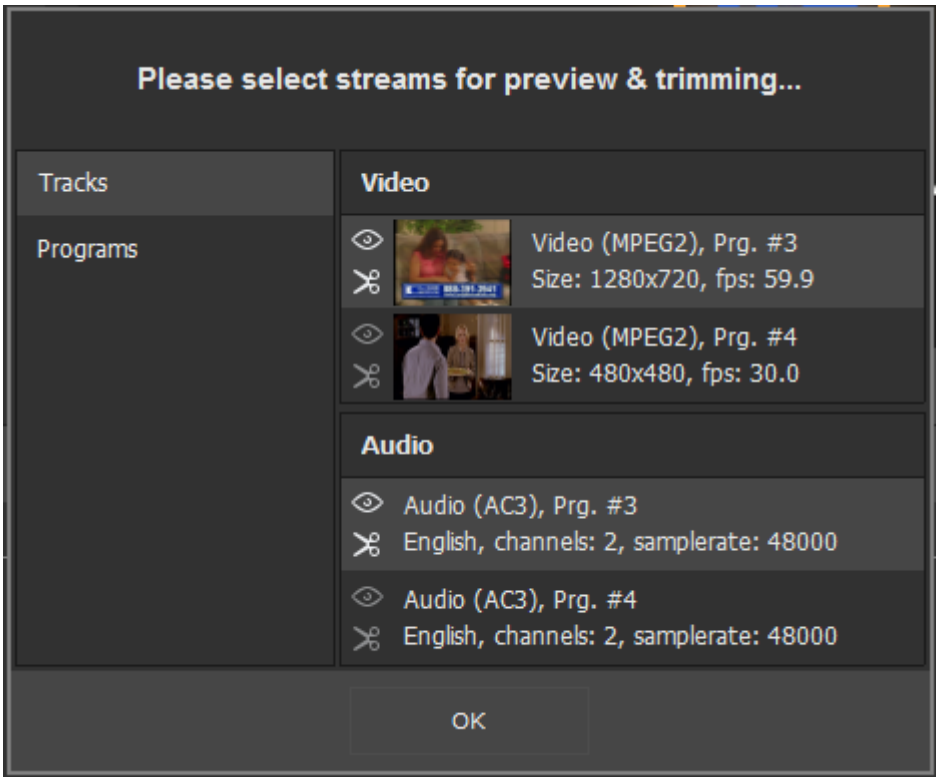
If you cancel the indexing process or choose not to index the file, you can index it later in the following way: select **Tools** -> **Index MPEG file in the folder or Tools** -> **Index MPEG files from Media list** from the menu.

If MPEG2 file contains several video or audio tracks then the Stream selection window will be opened.

It contains two tabs: **Programs** and **Tracks**, where you can select the desired stream by clicking the icon near the appropriate stream.

The icon with an eye ( ) shows what stream is selected for preview.

The icon with the scissors ( ) shows what stream is selected for editing.



Item of Window	Description	Shortcut key
	The stream is selected for preview	-
	The stream is not selected for preview. It will be not shown.	-
	The stream is not selected for editing	-
	The stream is not selected for editing. It will not be saved in the output file.	-

What to do next is described in How-to section.

How to...

- register Solveig Multimedia Video Splitter
- open a video file
- select video and audio streams
- preview a video clip
- navigate in your video
- set and delete markers
- set fragments to be kept or cut
- fix audio/video synchronization
- start splitting

- start joining

How to register Solveig Multimedia Video Splitter

You can license this program right from our web page at http://www.solveigmm.com/en/products/video-splitter/. Click the **Buy Now** link there. We offer many different ways to order it, including secure web forms, phone, fax and mail orders, as well as corporate purchase orders. However, since the order information is likely to change in the future and your downloaded copy of Video Splitter may be several months or even years old, you should access our webpage for the most current order information.

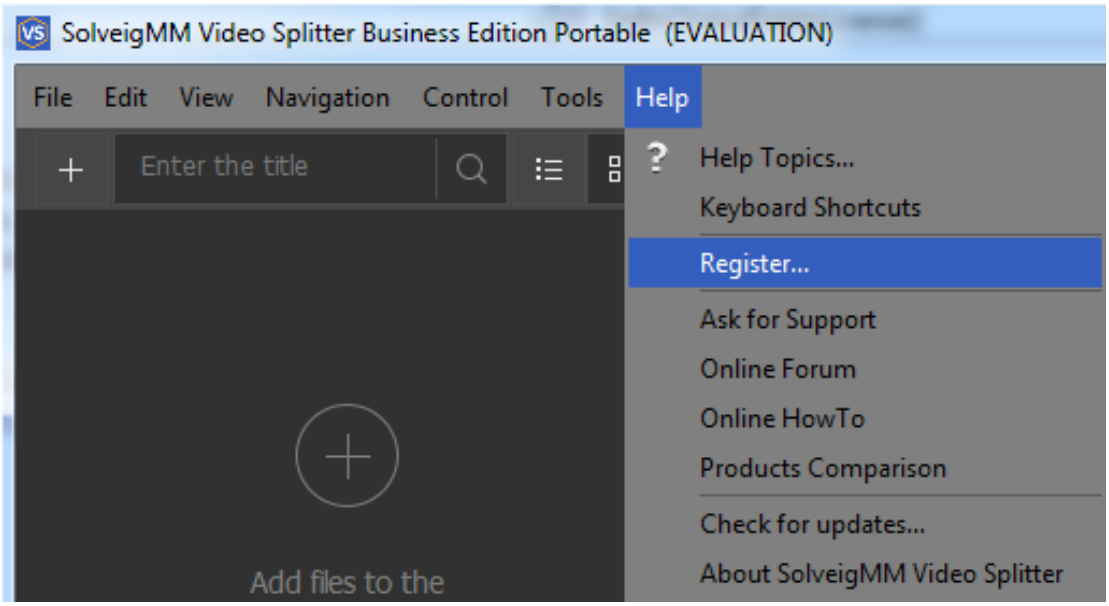
To find the current prices, please visit us on the web at http://www.solveigmm.com/.

After ordering you will get an activation key of the following format: "XXXXX-XXXXX-XXXXX-XXXXX".

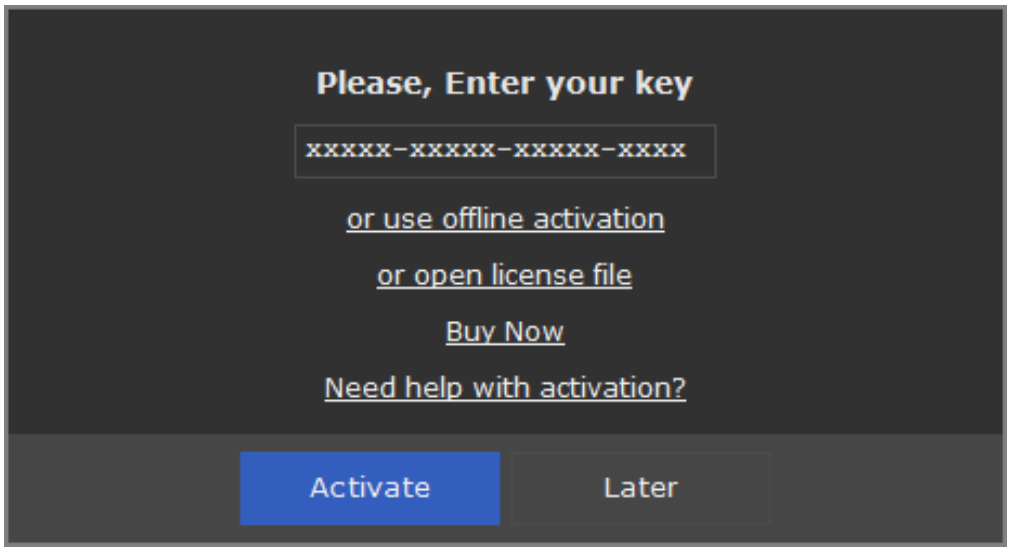
Online Activation

To activate your product online please do the following:

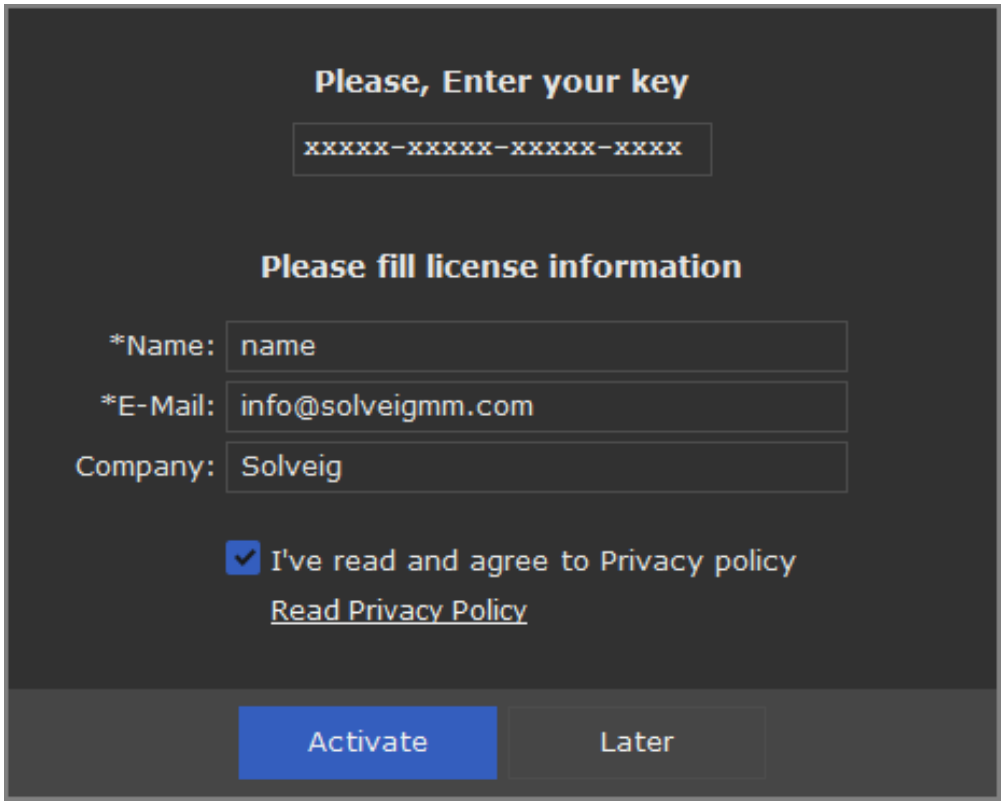
1. Open Video Splitter and click "Help->Register" menu item.



2. Enter your Activation key and click "Activate" button. This method requires a connection to the Internet.



3. Fill the license information fields and click "Activate" button again.

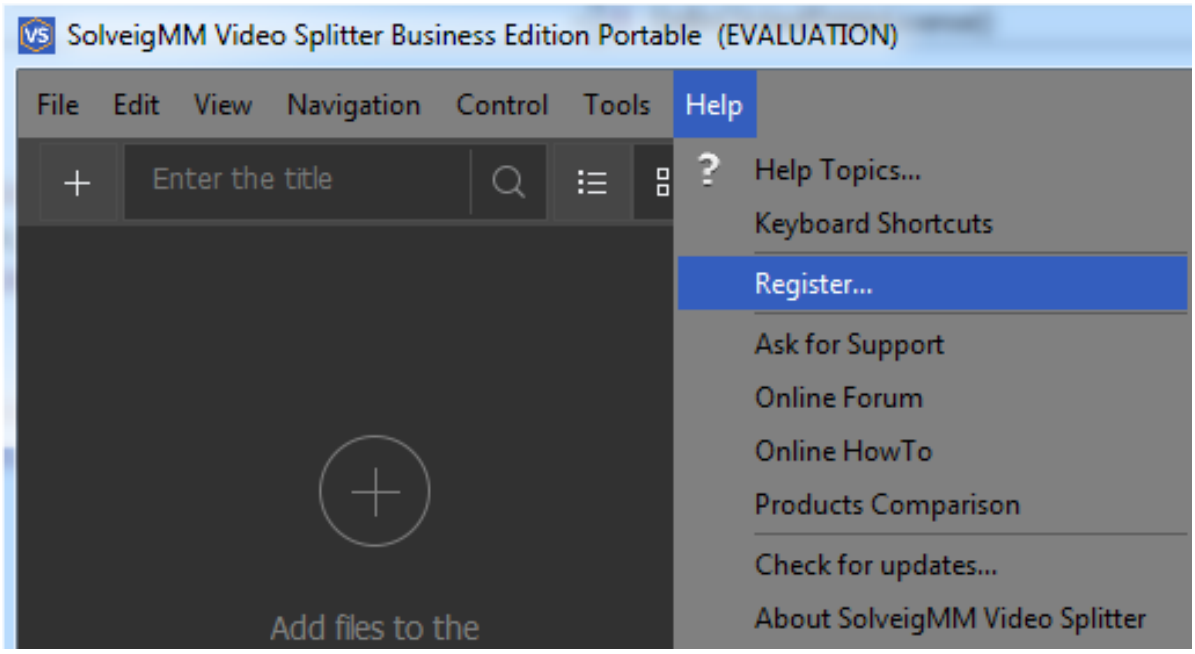


Offline Activation

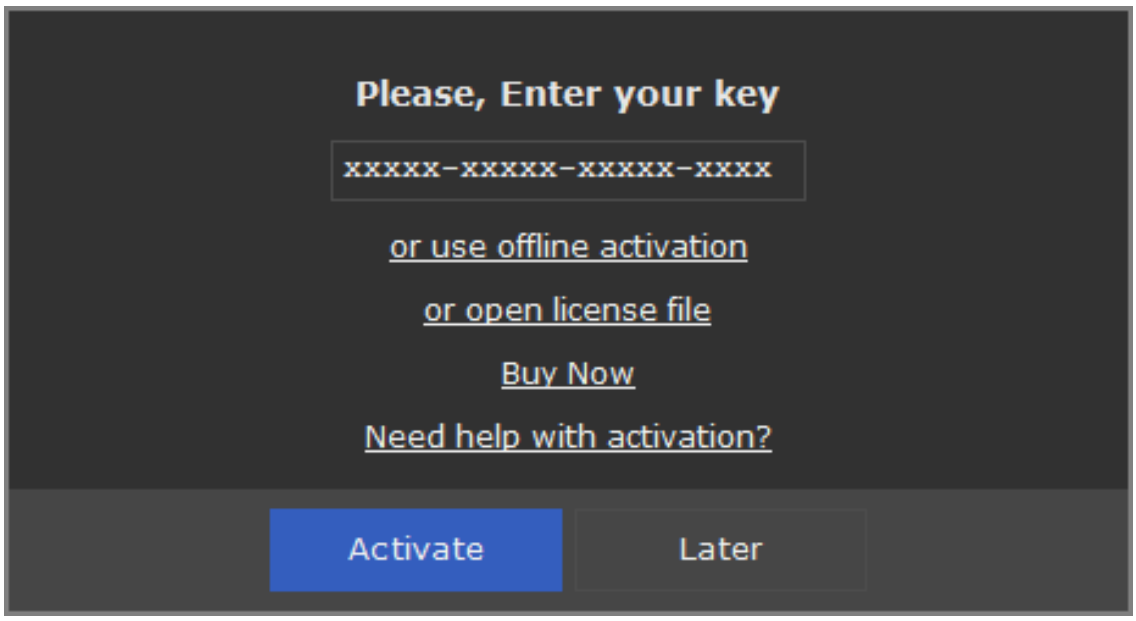
If for some reason you can't activate Video Splitter online there is an option of the offline activation (available only in Business version of the product) that doesn't require the Internet connection on the computer where Video Splitter is installed

To activate the product offline please do the following:

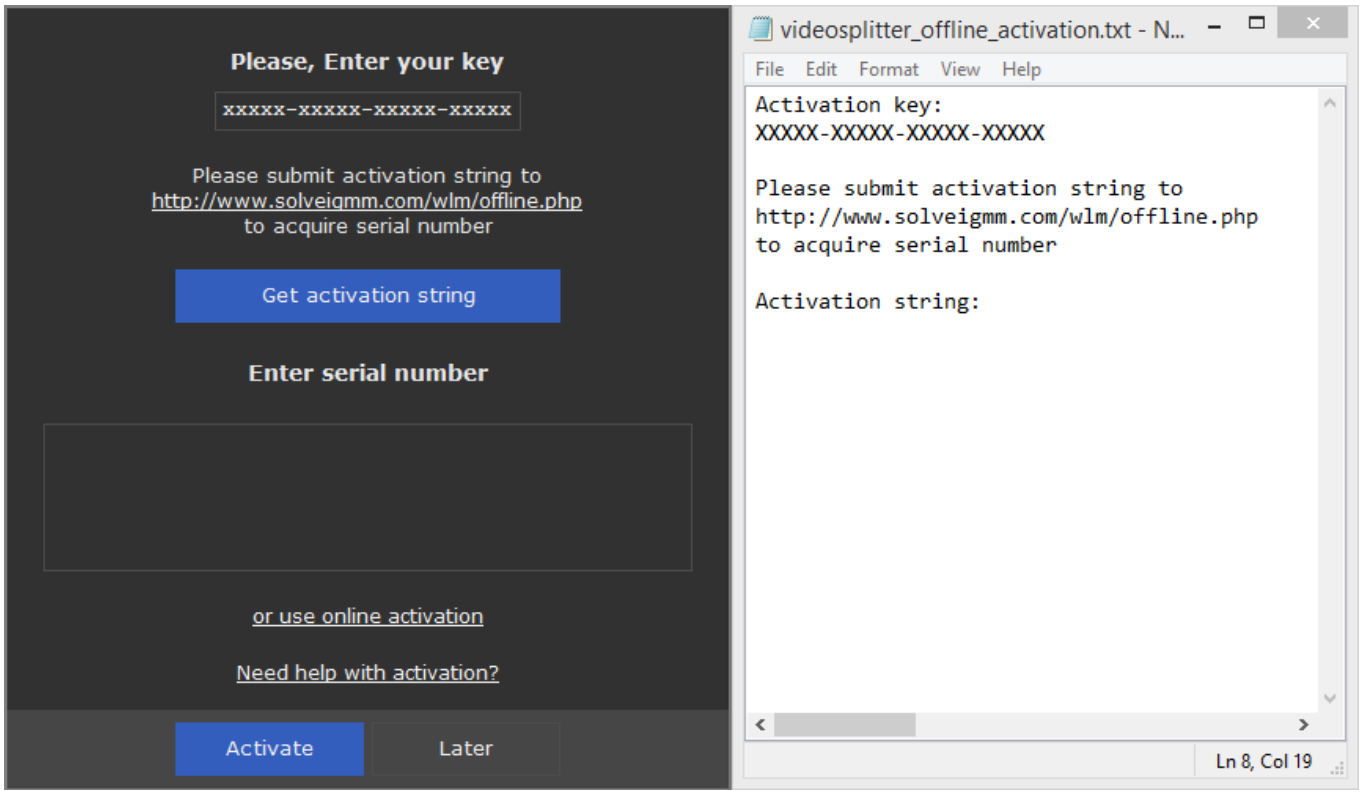
1. Open Video Splitter and click "Help->Register" menu item.



2. Click "or use offline activation" link.



3. Enter your activation code and click "Get activation string" button. "videosplitter_offline_activation.txt" should appear with instructions on how to get a serial number to complete the activation process.

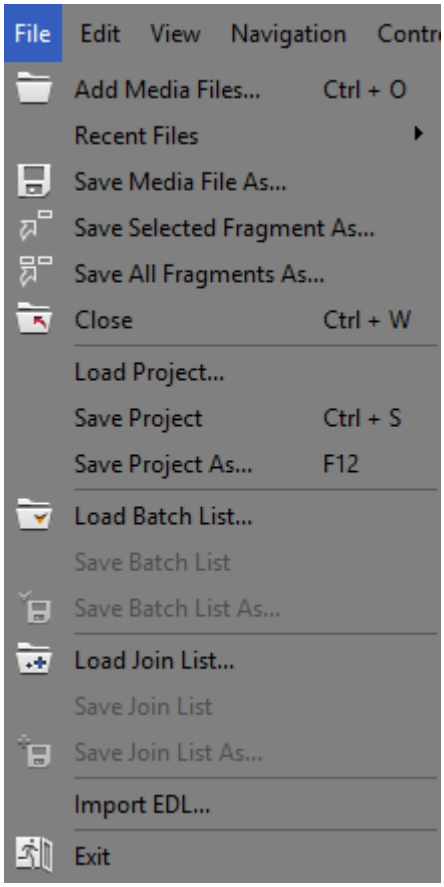


4. Open the URL http://solveigmm.com/wlm/offline.php in your web-browser and paste the activation string then click "Submit" button. As a result you will get a Serial Number. To complete the activation please copy the serial number from a web-browser and paste it into the appropriate field of the Video Splitter licensing dialog. Then click "Activate" button again.

How to open a video file

To open the video file you want to split, do the following:

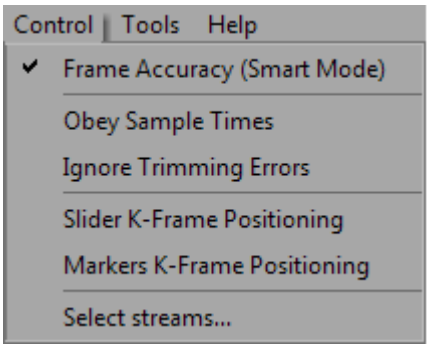
1. Select **File** -> **Open Media File...** from the menu. The standard Windows **Open File** dialog will appear.
2. Find your video file and click **Open**.



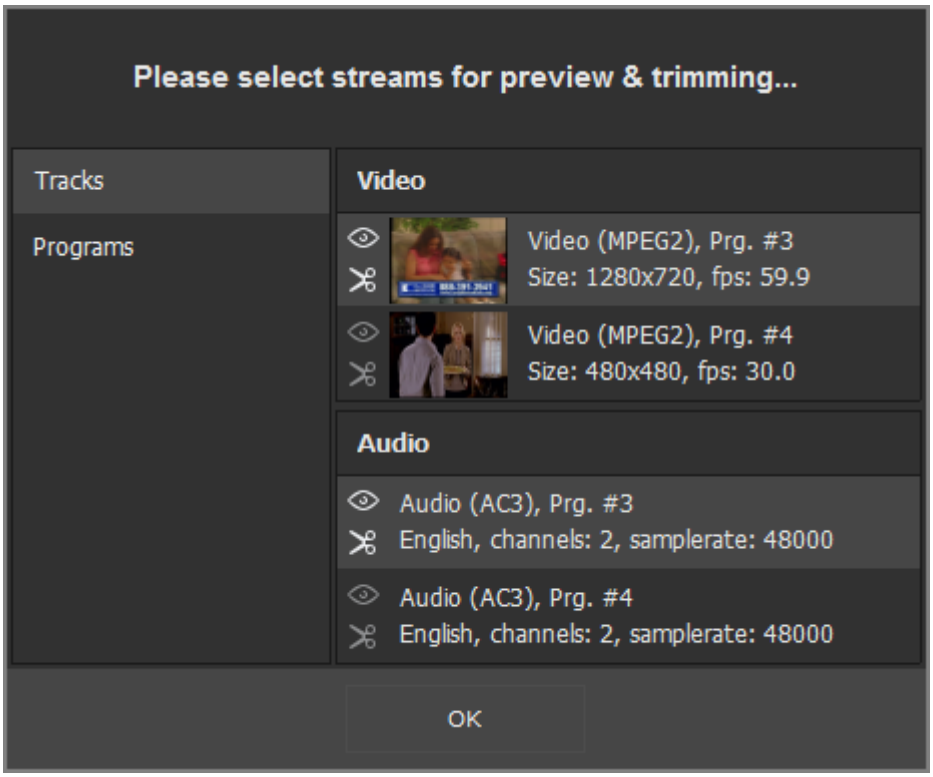
See also Supported file formats, **File** menu

How to select video and audio streams

Solveig Multimedia Video Splitter allows you to choose the audio and video streams that will be rendered into the final movie. To choose the streams, open the **Control** menu and follow "**Select streams...**" menu item.



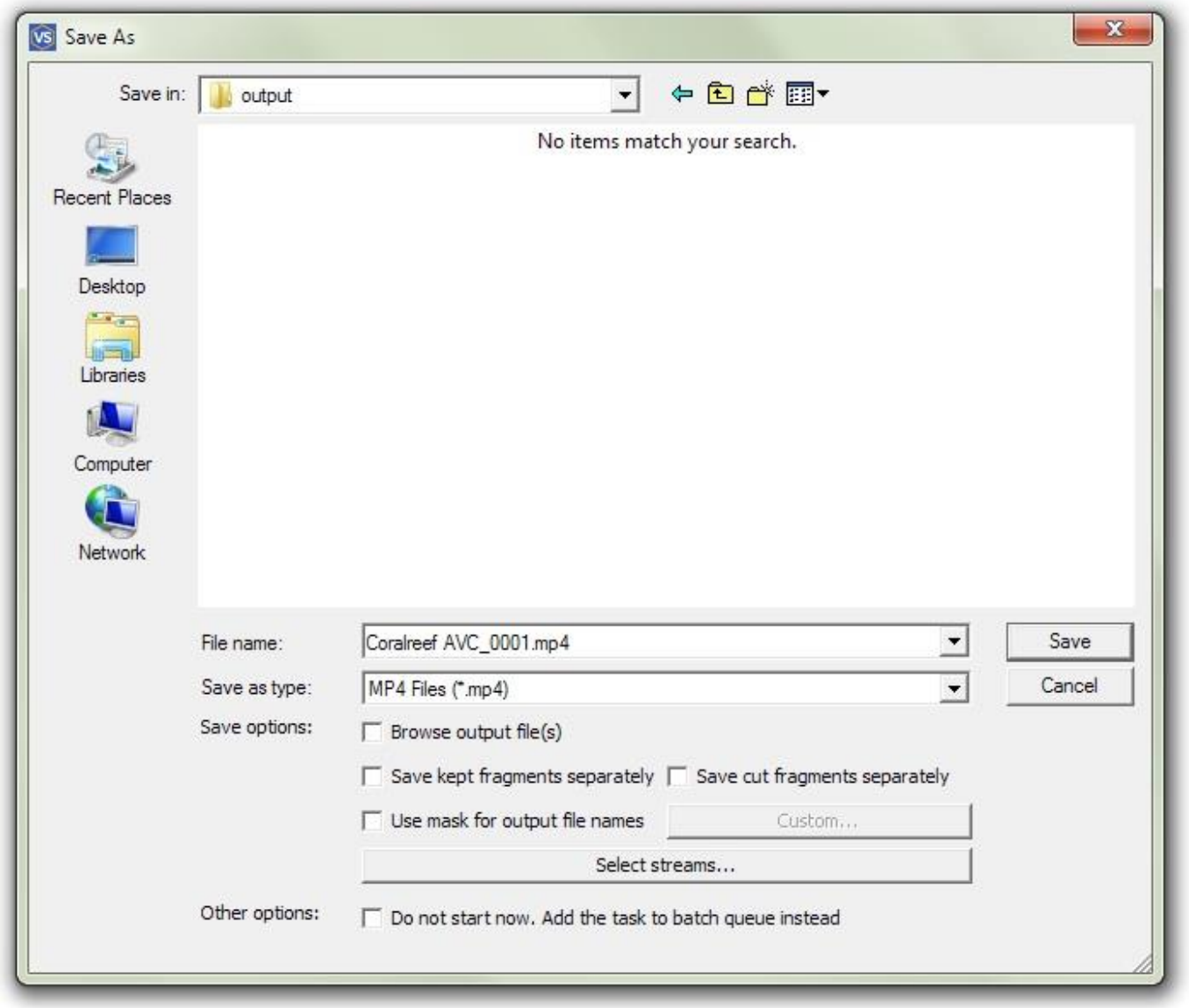
The special window will be opened. It is possible to select audio and video streams for the preview and editing here.
You can see this window also after opening of any file with multiple video or audio streams.



Choose the stream for preview by clicking the icon with an eye ( ). To select streams you want to be present in the output file click the icon with scissors ( ).

In the example on the above screenshot the one video stream and two audio streams were selected for editing.

You can also open the stream selection window by clicking the "**Select streams...**" button from the dialog window that opens after the trimming start.



See also **Control** menu, Stream selection window

How to preview a video clip

1. Open a video file
2. To start playback, click the **Play** button. Also, you can use the **Edit**->**Play** menu item or the Space shortcut key.
3. To pause playback, click the **Pause** button. You can use the **Edit** -> **Pause** menu item or the Space shortcut key.

Window element	Description	Shortcut key
	Previous K Frame	Left arrow
	Next K Frame	Right arrow
	Play/Pause	Space

	Next Frame	Ctrl + Right arrow
	Previous Frame	Ctrl + Left arrow

See also Navigation controls, **Edit** menu, Keyboard shortcuts

How to navigate in your video

1. To advance to the next K frame, click the **Next K Frame** button or select the **Edit**->**Next K Frame** menu item from the menu. You can also use the **Right arrow** shortcut key.
2. To jump to the previous K frame, click the **Previous K Frame** button or select the **Edit**->**Previous K Frame** menu item. The **Left arrow** shortcut key is also available.
3. Left-click the timeline at the position you need.
4. Type the necessary time in the edit box in the Navigation controls in the HH:MM:SS.mS format. The position will be automatically adjusted to the nearest previous K frame.

Window element	Description	Shortcut key
	Previous K Frame	Left arrow
	Next K Frame	Right arrow
	Previous Frame	Ctrl + Left arrow
	Next Frame	Ctrl + Right arrow

See also Navigation controls, **Edit** menu, **Control** menu, Keyboard shortcuts

How to set and delete markers

To select fragment you need to do the following:

1. Navigate to the position where you want to add it.
2. Press the **Set new marker** key **(M)** or select the **Edit** -> **Set New Marker** menu item

To delete a marker:

1. Left-click the marker you want to delete.
2. Press **Remove marker/fragment** key (Delete) or select the **Edit** -> **Remove marker or markers** menu item.

To delete all markers from the timeline, select the **Edit -> Clear All Marks** menu item or use the **Ctrl + C** shortcut
Note: markers will be deleted without any confirmation

Window element	Description	Shortcut key
	Add Marker	M
	Delete Selected Marker	Delete
	Clear All Markers	Ctrl + C

See also **Edit** menu, Keyboard shortcuts, Splitting controls

How to set fragments to be kept or cut

To define a new fragment:

1. Navigate to the beginning of the future fragment.
2. Press the **Add a marker key (M)** or select the **Edit -> Set New Marker** menu item.
3. Navigate to the end of the future fragment.
4. Repeat step 2.

To adjust the time of the fragment start and stop:

1. Deploy the collapsed interval. Select the marker at the beginning/end of the fragment.
2. Drag the marker to the necessry position (or use the the **Next K Frame / Previous K Frame** buttons) or timebox of the appropriate marker.

To delete a fragment:

1. Left-click the fragment you want to delete.
2. Press the **Remove marker(s)** key (Delete), or select the **Edit** -> **Remove marker or markers** menu item.

Note: the fragment will be deleted without any confirmation.

To set a fragment to be kept:

1. Left-click the fragment you want to keep.
2. Right mous click and select "**Keep On Selected Fragment** key (S)" in the opened context menu or select the **Edit -> Keep On Selected Fragment** menu item.

To set a fragment to be cut:

1. Left-click the fragment you want to delete.
2. Press the **Cut Off Selected Fragment** key (D) or select the **Edit** -> **Cut Off Selected Fragment** menu item.

Window element	Description	Shortcut key
	Add New Marker: Add a new marker to the current slider cursor position.	M
	Remove Selected Markers: Removes selected markers from the timeline.	Delete

See also **Edit** menu, Keyboard shortcuts, Splitting contros

How to fix audio/video synchronization

Solveig Multimedia Video Splitter is designed to split media files without loosing audio/video synchronization. However, some media files lose synchronization after splitting. To avoid losing sync, you can try to do the following:

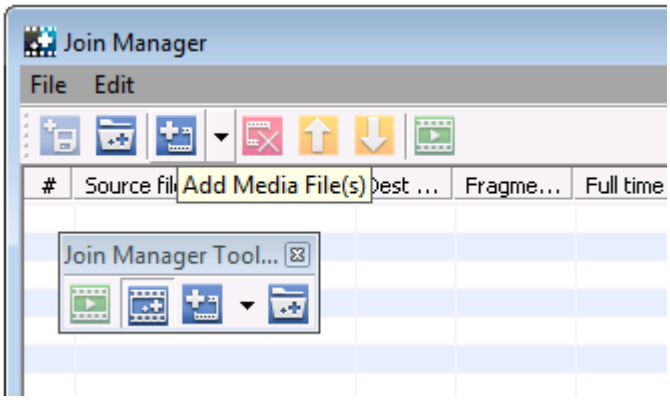
1. Open your video file.
2. Define the fragments you want to keep in the final movie.
3. Select the **Control -> Obey Sample times** menu item.
4. Continue the splitting process as usual.

See also **Control** menu, How to set fragments to be kept or cut

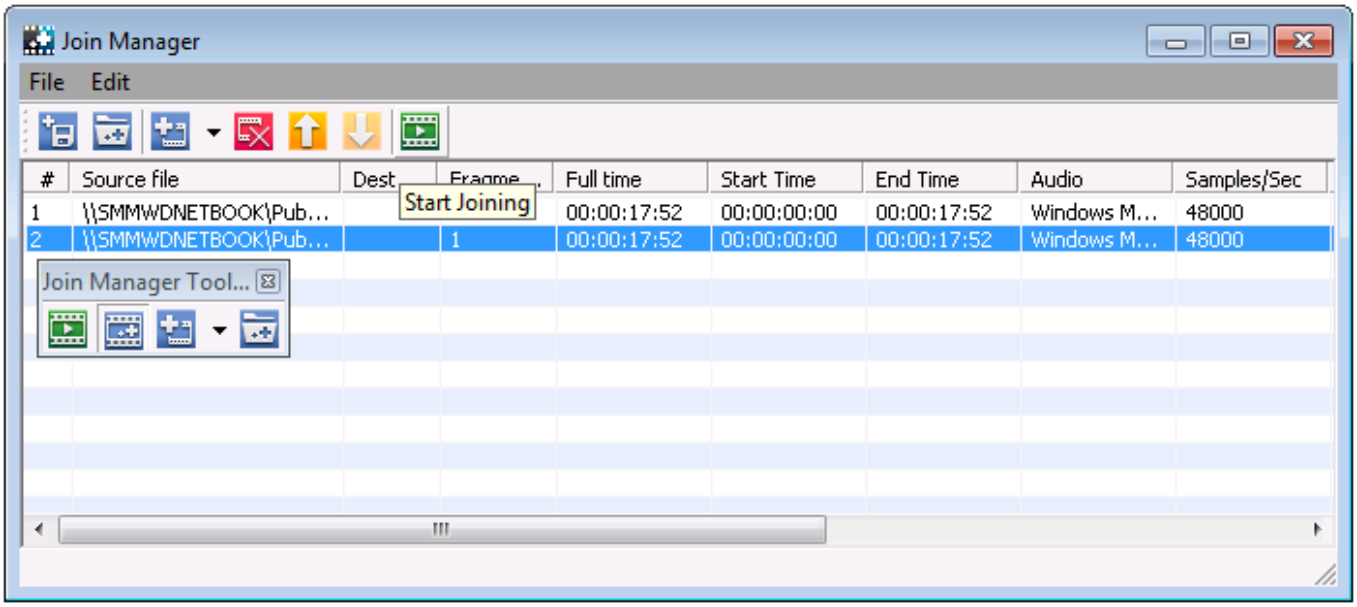
How to start joining

To start the joining process:

1. Add the video (audio) files you want to join either using drag'n'drop or by clicking the **Add Media File(s)** button.

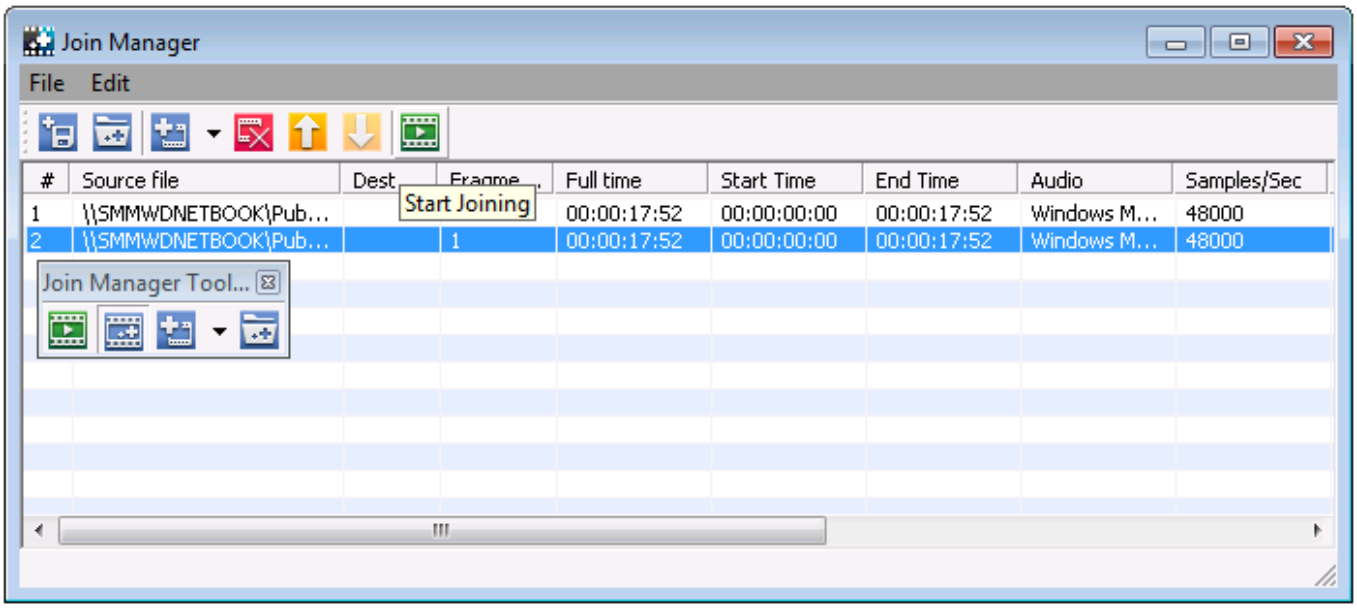


2. If the files have different parameters, you will be notified.



3. Sort files.

4. Start joining by clicking the **Start Joining** button or selecting the **File->Start Joining** menu item.



5. Enter the name of the destination file and click Save. The progress bar will appear and show the progress.

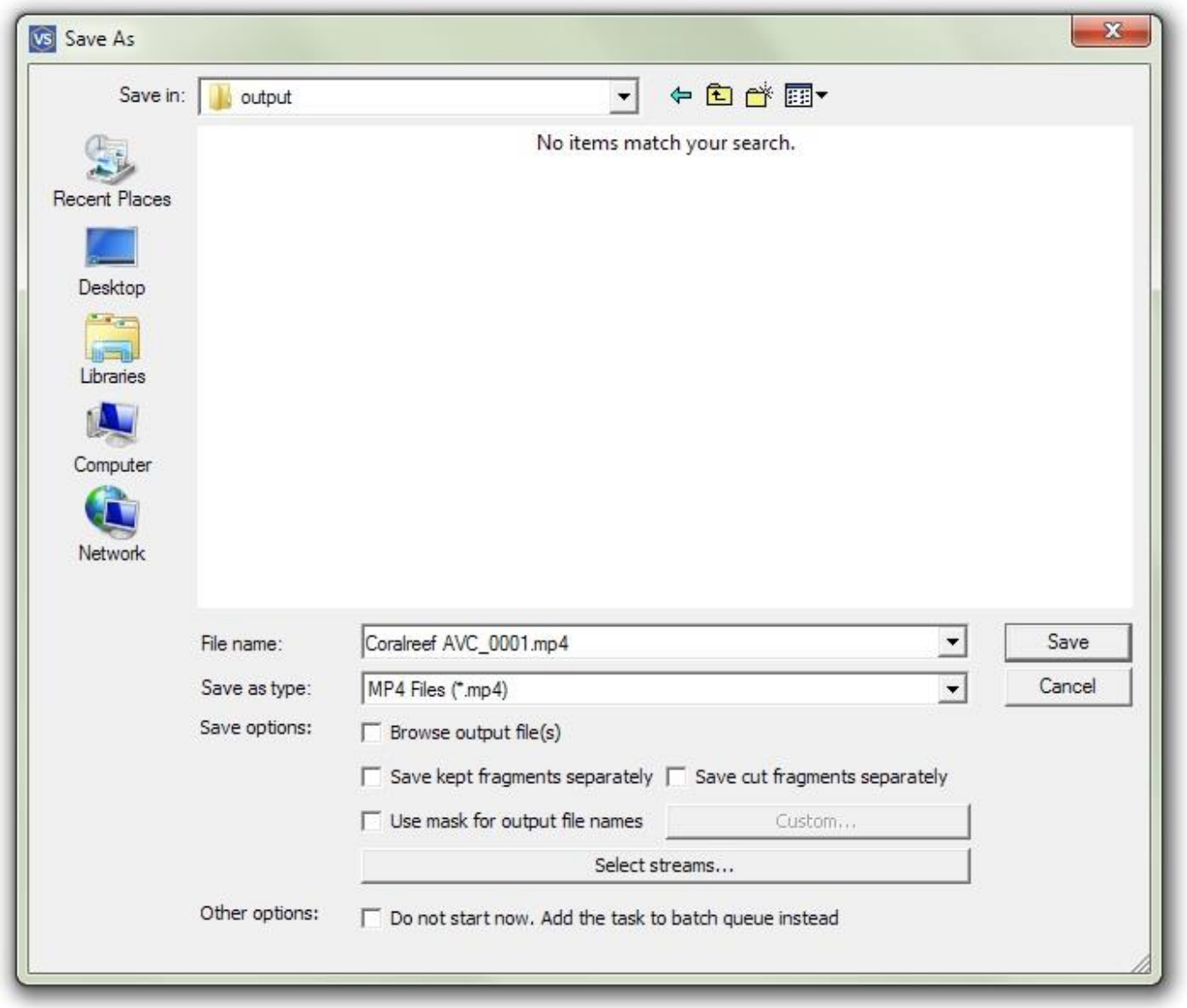
How to start splitting

To start the trimming process:

1. Open your video file.
2. Define the fragments you want to keep in the final movie
3. Press the Trim key (Ctrl + T) or select **Edit -> Start Trimming**
4. If you are asked for a file name, enter a name for the destination file and click **Save**.

You can also select streams you would like to be edited and saved in the output file by clicking the "**Select streams...**" button. The progress bar will appear and showing that splitting is in progress.

Note: selecting the **File -> Save Media File As...** menu item also starts the trimming process.



Window element	Description	Shortcut key
Save	Save: Start the trimming process	Ctrl + T

See also **Edit** menu, Keyboard shortcuts, Splitting controls, Batch manager

SolveigMM Batch Splitter console utility

The SolveigMM Batch Splitter console utility (SMM_BatchSplit.exe) duplicates the SolveigMM Video Splitter video/audio trimming functionality in the console mode. It allows you to trim AVI, ASF/WMV/WMA, MPEG-1, MPEG-2, MP4, MOV, MKV, AVCHD, MPEG Audio files (See Supported File Formats for more details). The files and parameters should be described in the batch file (*.xtl) specified as the input parameter to the utility.

XTL batch file could be obtained by "Save Task List As..." command from Video Splitter's main window or SolveigMM Video Splitter Batch Manager "File" menu. See Batch file structure and XTL batch file samples for more details.

Usage:
BatchSplit.exe [-L logfilename] [-LD log_dir] [-P profile] file.xtl

Parameters:
-L logfilename: Log filename. By default it equals to "BatchSplit.log". Use the NULL value to disable logging.

-LD log_dir: Log files directory. Create log files from components involved in operation.

-P profile: Set codecs profile.

file.xtl: XTL Batch file path name.

Example:
BatchSplit.exe -L MySplitTaskLog.log "D:\Video\SplitTasks\MySplitTask.xtl"

Note: SolveigMM Batch Splitter console utility available only in SolveigMM Video Splitter Business Edition.

For more information see destinctions between Home Edition and Business Edition.

Batch file structure

Video Splitter batch files have the *.xtl, *.jxtl extensions and are based on the DirectShow Editing Services XTL format.

Note: All the sections and attributes are case-sensitive and must be in the lower case. The values must be enclosed in quotation marks ("").

timelines Element

The timelines element is the root XML node.

Example:
<timelines version="2">
</timelines>

Attributes:

Attribute name	Possible values	Required	Description
version	2	Yes	The name attribute specifies the output filename with its path

Parent/Child Information:

Parent	Children
none	timeline

timeline Element

The timeline element describes particular timeline.

Example:
<timeline>
</timeline>

Attributes:
no attributes specified.

Parent/Child Information:

Parent	Children
timelines	group

group Element

The group element defines output files parameters.

Example:
<group name="..." mode="...">
</group>

Attributes:

Attribute name	Possible values	Required	Description
output	string with file path name	No	Specifies the output file name with it's path
out_type	see Output file types	No	Specifies output file type. Note: This parameter should be set depending on input format and video audio codec.
outdir	string with file path	No	Specifies the output files' path for tasks with multiple files output
outmask	see Output file mask format	No	Specifies the output files' mask for task with multiple files
compatibility	see Compatibility types	No	Specifies the output files compatibility

Output file types:

avi - Audio Video Interleave
asf,wmv - Window Media Video
wma - Windows Media Audio
mpa, mp3, mp1 - MPEG audio
mpg_ts - MPEG2 transport stram
mpg_ps - MPEG2 program stream
mpg_ves - MPEG2 video elementary stream
mpg1_sys - MPEG1 system stream
mpg1_ves - MPEG1 video elementary stream
avc_ves - AVC video elementary stream
wav - Waveform Audio
matroska - Matroska
mp4 - MPEG-4 Part 14 file format
flv - Flash Video
gif - Animated GIF
yuv- I420 YUV
raw - Raw format

Compatibility types:

original - Ordinary file
GeoVision - GeoVision RemoteView compatible file
BlueSonicF008 - DVR BlueSonic F008 file

Parent/Child Information

Parent	Children
timeline	track

---

task Element

The task element defines operation that is applied to timeline.

Example:
<task type="..." time="..." timeFormat="..."/>

Attributes:

Attribute name	Possible values	Required	Description
type	joining, indexation, autosplit	No	Specifies the task type. See Task types for detais
time	time string	No	Specifies the time parameter for task
timeFormat	100ns_units, time10ms, parts, bytes	No	Specifies how to interpret value specified in time attribute. See time format types

Task types:

joining - Join should be applied to timeline
indexation - Indexation operation should be applied to clip
autosplit - Slicing by time, by size, into parts should be applied to timeline

Parent/Child Information:

Parent	Children
group	none

track Element

The track element is container for clip elements it defines common attributes for clips if it is not set.

Example:
<track video="..." audio="..." text="..." obey_sample_times="..." accuracy="..." compatibility="...">
</track>

Attributes:

Attribute name	Possible values	Required	Description
video	any number	No	Specifies the number of video stream. The 0 value means no video stream. The -1 value means - all video streams
audio	any number	No	Specifies the number of audio stream. The 0 value means no audio stream. The -1 value means - all audio streams
text	any number	No	Specifies the number of text stream. The 0 value means no audio stream. The -1 value means - all text streams
obey_sample_time	0, 1	No	The obey_sample_times attribute specifies whether an alternative synchronization algorithm should be used: 0 = Do not use obey_sample_time 1 = Use obey_sample_time By default, obey_sample_time equals to 0
accuracy	see Trimm accuracy types	No	Specifies accuracy type in trimming operaion
compatibility	see Compatibility types	No	Specifies graph compatibility option for operation
flags	see Trimm flags	No	Specifies coma separated options used in trimming

	for details		operation. See Trimm flags for details

Trimm accuracy types:

frame - Frame accuracy
gop - K-frame (GOP) accuracy

Parent/Child Information:

Parent	Children
group	clip

---

clip Element

The clip specifies the media source.

Example:
<clip src="..." index="..." video="..." audio="..." text="..." start="..." stop="..." timeFormat="..." flags="..."/>

Attributes:

Attribute name	Possible values	Required	Description
src	string with file path name	Yes	Specifies the path name of the input media file
index	string with index file path name	No	Specifies the path name of the input media file' index
video	any number	No	Specifies the number of video stream. The 0 value means no video stream. The -1 value means - all video streams
audio	any number	No	Specifies the number of audio stream. The 0 value means no audio stream. The -1 value means - all audio streams
text	any number	No	Specifies the number of text stream. The 0 value means no audio stream. The -1 value means - all text streams
start	time string	No	The start time of the fragment. See time format types for details
stop	time string	No	The stop time of the fragment. See time format types for details
timeFormat	100ns_units,	No	Specifies time format for start, stop attributes. See time

	time10ms, position		format types for details
flags	audio_silence	No	Specifies options used in trimming operation. See Trimm flags for details

Time format types:

100ns_units - Value is interpreted as 100ns Units (1 sec = 1e7 UNITS)
time10ms - Value is set in format "HH:MM:SS.mS"
position - Value is set using key words: "begin", "end"
bytes - Value is interpreted as bytes count
parts - Value is interpreted as parts count

Trimm flags:

audio_silence - audio will be muted on fragment

Parent/Child Information:

Parent	Children
track	no

XTL batch file samples

Trimming

```
<timelines version="2" >
  <timeline>
    <group output="C:\Base\output\2a2v_0001.avi" >
      <track video="1" audio="2" accuracy="frame" >
        <clip src="C:\Base\avi\2a2v.avi" start="00:00:00.00" stop="00:12:32.00" />
        <clip src="C:\Base\avi\2a2v.avi" start="00:32:41.00" stop="00:42:02.00" />
        <clip src="C:\Base\avi\2a2v.avi" start="00:54:09.00" stop="01:08:51.00" />
      </track>
    </group>
   </timeline>
   <timeline>
     <group output="C:\Base\output\2a2v_0002.avi" >
        <track video="1" audio="1" accuracy="frame" >
          <clip src="C:\Base\avi\2a2v.avi" start="00:00:00.00" stop="00:12:32.00" />
          <clip src="C:\Base\avi\2a2v.avi" start="00:32:41.00" stop="00:42:02.00"
flags="audio_silence" />
          <clip src="C:\Base\avi\2a2v.avi" start="00:54:09.00" stop="01:08:51.00" />
        </track>
     </group>
    </timeline>
    <timeline>
     <group output="C:\Base\output\H263_PCM_0001.avi" >
        <track video="1" audio="0" accuracy="gop" >
          <clip src="C:\Base\avi\H263_PCM.avi" start="00:11:48.08"
```

```
stop="00:20:14.52"/>
        </track>
     </group>
    </timeline>
</timelines>
```

3 files will be created as a result:

1) C:\video\result\2a2v_0001.avi - the file will consist of three sequential fragments from C:\video\2a2v.avi

Start Time	End Time
00:00:00.00	00:12:32.00
00:32:41.00	00:42:02.00
00:54:09.00	01:08:51.00

The file will contain the video stream and the second of two audio stream.

2) C:\video\result\2a2v_0002.avi - the file will consist of three sequential fragments from C:\video\2a2v.avi as for the first timeline but in second fragment audio will be muted.
3) C:\video\result\H263_PCM_0001.avi - the file will consist of one fragment from C:\video\H263_PCM.avi

Start Time	End Time
00:11:48.08	00:20:14.52

The file will contain only the video stream.
The file will contain only the audio stream.

Indexation

```
<timelines version="2">
  <timeline>
    <group output="C:\video\a.mpg.mlmix" >
      <task type="indexation"/>
        <track>
          <clip src="C:\video\a.mpg" />
        </track>
     </group>
    </timeline>
</timelines>
```

As a result, the index file would be created for the corresponding MPEG-2 file specified in the clip

Joining

```
<timelines version="2" >
  <timeline>
    <group output="C:\Test_full.mp3">
      <task type="joining" />
      <track video="-1" audio="-1" >
        <clip src="C:\Test_part0.mp3" />
        <clip src="C:\Test_part1.mp3" />
        <clip src="C:\Test_part2.mp3" />
      </track>
     </group>
```

```
    </timeline>
</timelines>
```

As a result, a file containing all parts specified in each clip in the specified order will be created.

Slicing

```
<timelines version="2" >
  <timeline>
     <group outdir="C:\Base\output\" outmask="[source]_[n:4]" >
        <task type="autosplit" time="900000000" timeFormat="100ns_units" />
         <track video="1" audio="1" >
           <clip src="C:\Base\avi\a.avi" start="begin" stop="end"
timeFormat="position" />
         </track>
      </group>
   </timeline>
</timelines>
```

As a result, media file a.avi will be splitted into parts by time (1.5 minutes each one) and saved to C:\Base\output\ as separate files

File with multiple audio streams trimming

```
<timelines version="2" >
   <timeline>
     <group output="G:\output\Video_with_multiple_audio_tracks_0001.avi" >
      <track video="1" audio="1" text="0" accuracy="gop" >
        <clip src="C:\Users\olga\Videos\Video_with_multiple_audio_tracks.avi"
start="128400000" stop="182800000" timeFormat="100ns_units" />
      </track>
      <additional_param audio="2"/>
      </group>
    </timeline>
</timelines>
```

As a result, a file containing one video track and two audio tracks will be created and saved to G:\output\.
The file consist of one fragment with the start time position 00:00:12;21 and end time position 00:00:18;07.

File with external subtitles trimming

```
<timelines version="2" >
    <timeline>
       <group output="G:\output\Video_0001.mp4" >
          <track video="1" audio="1" text="0" accuracy="frame" >
             <clip src="C:\Users\olga\Videos\Video.mp4" start="3410490416"
stop="7623449166" timeFormat="100ns_units" />
           </track>
         </group>
         <group output="G:\output\Video_0001.HUNTA & Fratelli.ass" >
            <track video="0" audio="0" text="1" >
              <clip src="C:\Users\olga\Videos\Video.HUNTA & Fratelli.ass"
start="3410490416" stop="7623449166" timeFormat="100ns_units"/>
            </track>
```

```
        </group>
      </timeline>
</timelines>
```

As a result, a file containing fragment with start time 00:05:41;00 and end time 00:12:42;03 and external ASS subtitles will be created.

Technical information

Video Splitter is based on the SolveigMM Video Editing SDK.
Send any questions about the SolveigMM Video Editing SDK to the Solveig Multimedia Technical Support Team at support@solveigmm.com

SolveigMM Video Splitter includes the following components:

Component	File Name	Description
COM \ ActiveX objects		
SolveigMM Video Editing Engine	SMM_EditEngine.dll	COM object for GOP accurate AVI, Windows Media video, MPEG1 and 2, Windows Media audio trimming without decoding/encoding
SolveigMM ActiveX time line control	SMM_OCXSlider.ocx	ActiveX time line control
SolveigMM Frame Stepper	SMM_FrameStepper.dll	COM object for frame/K-frame navigation on media files
SolveigMM Audio Silence Generation Library	SMM_SilenceGen.ax	COM object for gettings samples for muted audio with different compression format.
SolveigMM Audio Peak Reader	SMM_AudioPeakReader.dll	COM object for getting amplitude peaks data for audio streams to display waveform
DirectShow Trimmer Filters		
SolveigMM HEVC Video Trimmer Filter	SMM_HEVCVideoTrimmer.ax	DirectShow filter for GOP/Frame accurate trimming HEVC video
SolveigMM AVI Video Trimmer Filter	SMM_AVIVideoTrimmer.ax	DirectShow filter for GOP/Frame accurate trimming video in AVI files
SolveigMM-Elecard MPEG-2 Frame Accuracy Trimmer	SMM_MP2FATrimmer.ax	DirectShow filter for frame accurate MPEG-2 Video/Audio trimming
SolveigMM MPEG4 Trimmer	SMM_MPEG4TrimmerFA.ax	DirectShow filter for MPEG4 AVC GOP/Frame accurate

		file trimming
SolveigMM ASF Trimmer	SMM_ASF_Trimmer.ax	DirectShow filter for frame and GOP accurate Windows Media Video files trimming
SolveigMM AVC Video Trimmer Filter	SMM_AVCVideoTrimmer.ax	DirectShow filter for GOP/Frame accurate trimming MPEG4 AVC video
SolveigMM Audio Trimmer Filter	SMM_AudioTrimmer.ax	DirectShow filter for trimming audio
SolveigMM VP8 Video Trimmer Filter	SMM_VP8VideoTrimmer.ax	DirectShow filter for GOP/Frame accurate trimming VP8 video
SolveigMM MP4V Video Trimmer Filter	SMM_MP4VVideoTrimmer.ax	DirectShow filter for GOP/Frame accurate trimming MP4V video
SolveigMM Subtitles Trimmer Filter	SMM_SubtitlesTrimmer.ax	DirectShow fitler for trimming subtitles/text streams
DirectShow Multiplexer/Demultiplexer		
SolveigMM ASF Multiplexer	SMM_ASFMuxer.ax	DirectShow filter for the video and audio multiplexing into Microsoft Advanced Streaming Format.
SolveigMM Wave format Multiplexer	SMM_WavMux.ax	DirectShow filter for the audio multiplexing into Wave File Format
SolveigMM MP4 format Multiplexer	SMM_MP4Muxer.ax	DirectShow filter for video and audio multiplexing into QuickTime File Format and MPEG-4
SolveigMM MP4 format Demultiplexer	SMM_MP4Demuxer.ax	DirectShow filter for demultiplexing QuickTime File Format and MPEG-4 Part 14 file format.
SolveigMM FLV format Multiplexer	SMM_FLVMuxer.ax	DirectShow filter for video and audio multiplexing into FLV File Format
SolveigMM FLV format Splitter	SMM_FLVDemuxer.ax	DirectShow filter for demultiplexing FLV File Format
SolveigMM Matroska file format Multiplexer	SMM_MKVMuxer.ax	DirectShow filter for video and audio multiplexing into Matroska file format.
SolveigMM Matroska file format Splitter	SMM_MKVSplitter.ax	DirectShow filter for demultiplexing Matroska file format
SolveigMM MPA format Demultiplexer	SMM_MPADemuxer.ax	DirectShow filter for demultiplexing audio from MPEG audio format, and accurate navigation on Variable Bitrate MPEG audio files

DirectShow Encoders/Decoders		
SolveigMM Vorbis Audio Decoder	SMM_VorbisDecoder.ax	DirectShow filter for decoding of Vorbis Audio. It is based on WebM project source code
SolveigMM VP8 Video Decoder	SMM_VP8Decoder.ax	Decoder for VP8 video
SolveigMM VP8 Video Encoder	SMM_VP8Encoder.ax	Encoder for VP8 video
Others		
SolveigMM File Writer	SMM_FileWriter.ax	DirectShow filter for writing AVI and MPEG audio files. It is used to keep A/V synchronization when AVI with MPEG VBR audio is trimmed
SolveigMM K Frame Manager	SMM_KFrManager.ax	DirectShow filter for providing the K frame navigation during playback
SolveigMM Media Joiner	SMM_MediaJointer.ax	DirectShow filter file-by-file audio/video joining.
SolveigMM ASF Validator	SMM_ASFValidator.dll	Library for Windows Media Video files validation.
SolveigMM Thumbnails Generation Library	SMM_ThumbNail.dll	Library for generation thumbnails from video files.
SolveigMM Custom Encoder	SMM_CustomEncoder.dll	Library for partial reencoding video fragments
SolveigMM Timeline Editing Object	SMM_TimelineEditingObj.ax	DirectShow filter that wraps trimming graph into one filter using XTL Batch file
SolveigMM Media File Chopper	SMM_MediaFileChopper.ax	DirectShow filter that splits output into sequence of separate files with given duration or file size
SolveigMM Trimm Graph Manager	SMM_TrimmGraphManager.ax	DirectShow filter that manages trimming process in trimming graph. Works with trimmer filters: SMM_AVIVideoTrimmer.ax, SMM_AudioTrimmer.ax, SMM_AVCVideoTrimmer.ax, SMM_VP8VideoTrimmer.ax, SMM_MP4VVideoTrimmer.ax
SolveigMM Subtitle Overlay	SMM_SubtitleOverlay.ax	DirectShow filter for displaying subtitles.
SolveigMM Timeline Preview Object	SMM_TimelinePreviewSource.ax	DirectShow filter for the timeline set in the XTL format playback

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