FLU-O TV user manual

V. 0.17.609.1

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Flu-O - TV

Flu-O TV Playout is the complete system for the management and scheduling of broadcast; integrates in a single program the functions of video playout, graphics generator and a video mixer with management of up to 4 different external input.

Flu-O TV is characterized by a strong flexibility that allows you to use it both for classics television channels that for informative tv and innovative channels such as those music and "Radio-Vision".

Working with the palimpsest generated by **Philo Media Manager** through the multitude of instruments of automatic generation, with manual playlists, or with the manual insertion effected directly by the control station.

You can recharge a palimpsest, load another playlist, activate external devices, check live events, manage graphics in real time, interact with the web site information of the channel through the interchange of data in real time, intervene through the preview function and trim on the markings of every single clip.

Flu-O TV stores at different levels of the log, to use them for the control of transmissions and the generation of the report provided for by law.

Flu-O TV Playout allows the emission of advertising with graphics overlay managed both in time and in relation to specific automations of graphics, both for single clip that for entire categories; through your Device Manager allows you to manage external devices connected via TCP/IP, serial, GPIO (e.g. arrays, switches, audio processors, video processors, remote control)

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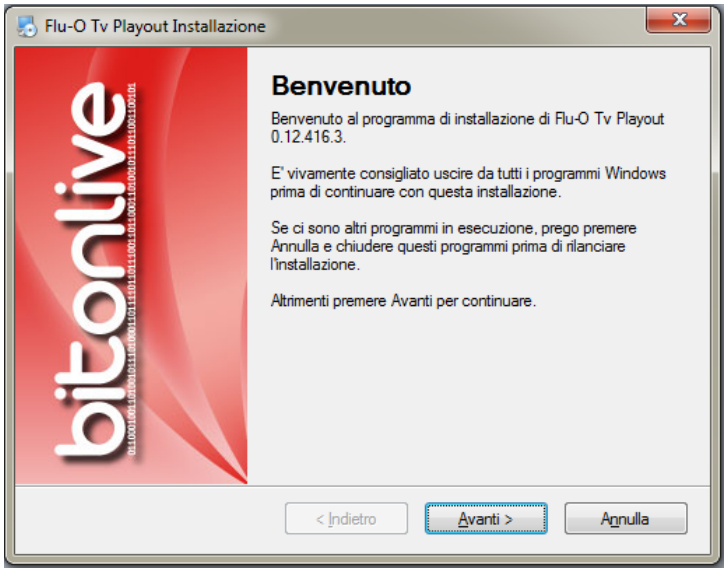
Installation

Launch **Setup_TVMPlayout.exe** and follow the indications.

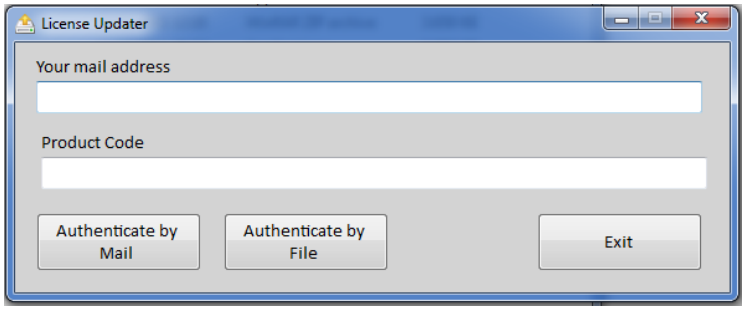


It is recommended that you install Flu-OR TV Playout in default folder (*C:\Program Files (x86)\BitOnLive\Flu-OR TV Playout*)

License Updater

When Windows is finished installing the software to open the *Windows Startup menu -> BitOnLive-> License Updater*

Opens the next window in which to insert address email and code for the activation of the license purchased.



Your email address will be sent an e-mail from License@bitonlive.com containing a file, save it to your desktop and Start Flu-O to activate it.

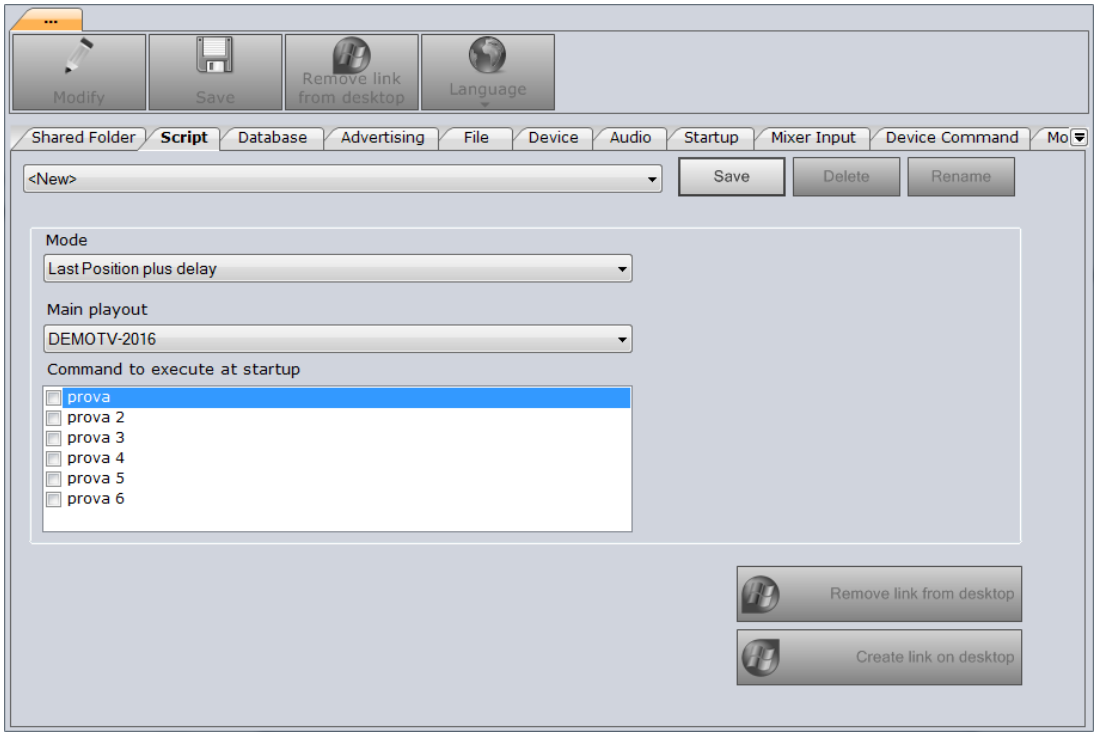
Click on the “TV Playout Configuration” icon to launch the program.

In the first mask, you set the shared folder, the folder in which to find the data and write the log of the program, you select the channel and the computer on which make changes.

Click the Edit button to set the channel parameters: it will become the new tabs.

Script

In Script section, you can generate the instructions that apply when you start the software.



Mode is the startup mode:

- From the beginning
- Last position (with reference to the main playout to indicate in the next field)
- Last position more delay (delay is the time of starting the software)
- Current Time

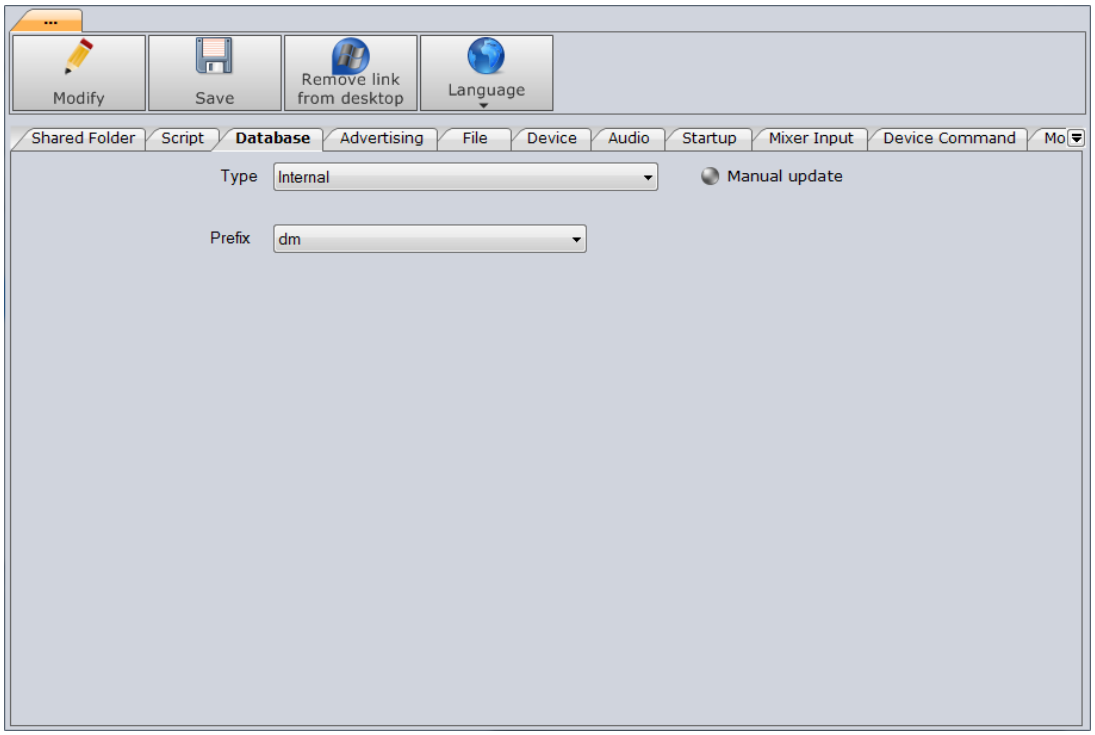
Command to run at startup

Lists commands of the Device Manager set in Philo Media Manager

Database

Select the type of database used.

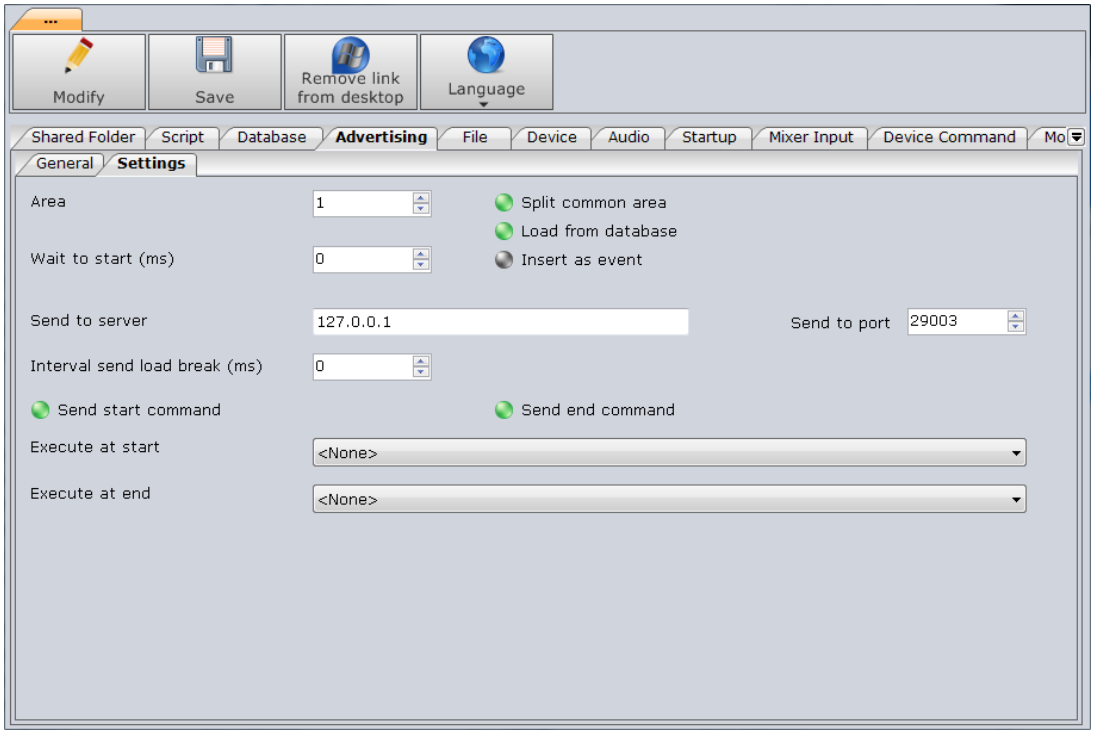
- Auto (default)
- Inside
- MySql



Advertising

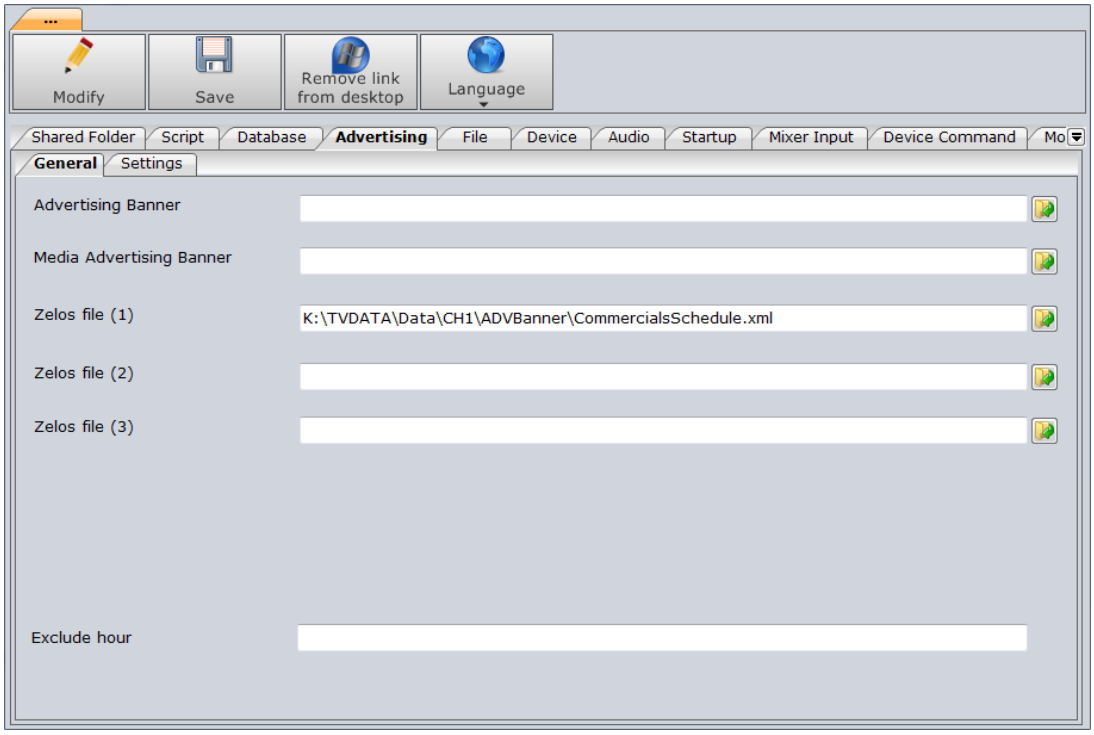
The Settings

Contains the configuration of the split/area transmitted by the playout, allows you to combine an automation at the beginning and at the end of the break. The automations must have been previously created in Philo Media Manager.



- **Area**: Enter the number of the split areas
- **Waiting to start**: delay in sending the split command
- **Send to server**: split server address
- **Sends Port**: port for communication with the server
- **Interval send load break**:
- **Send Start/End Command**: Enable or disable the command execution to the start/end
- **Execute at Start/End**: select the command to run at start/end
- **Split common area**: split command is sent to the server even in the presence of the single common area
- **Load from database**: prior to advertising rereads the information of trade from database
- **Insert as event**: Inserts the advertising break at the scheduled time without scheduling

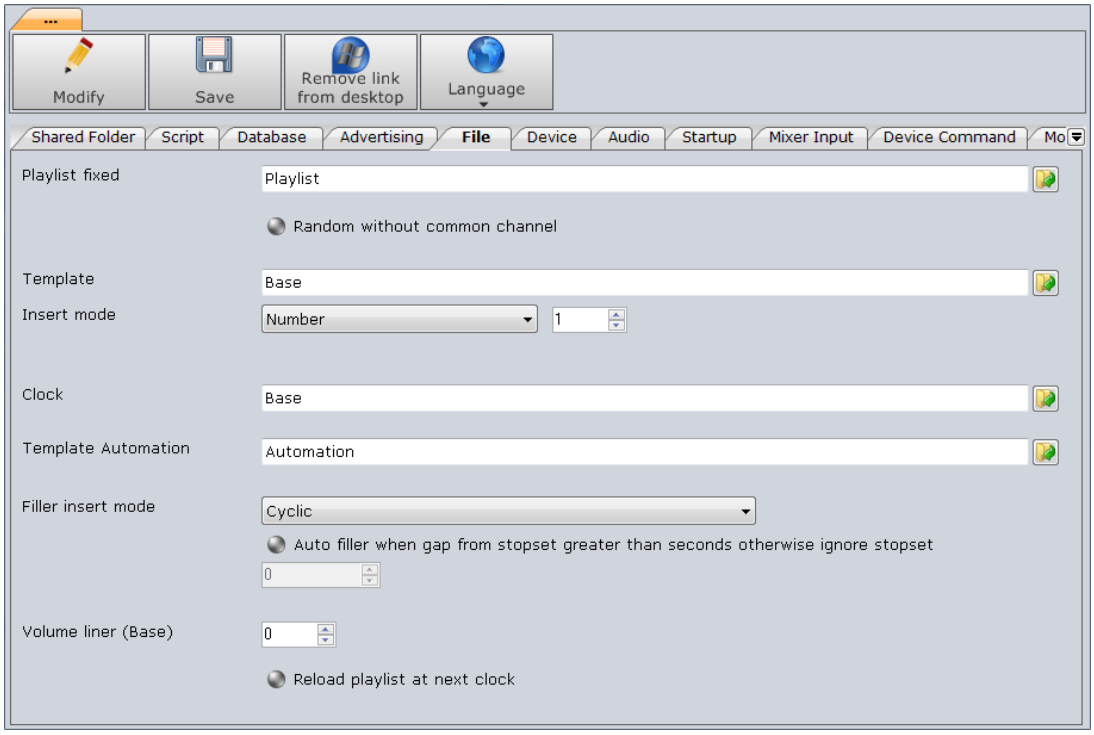
General



Select the folders where files are located with the programming and advertising banners.

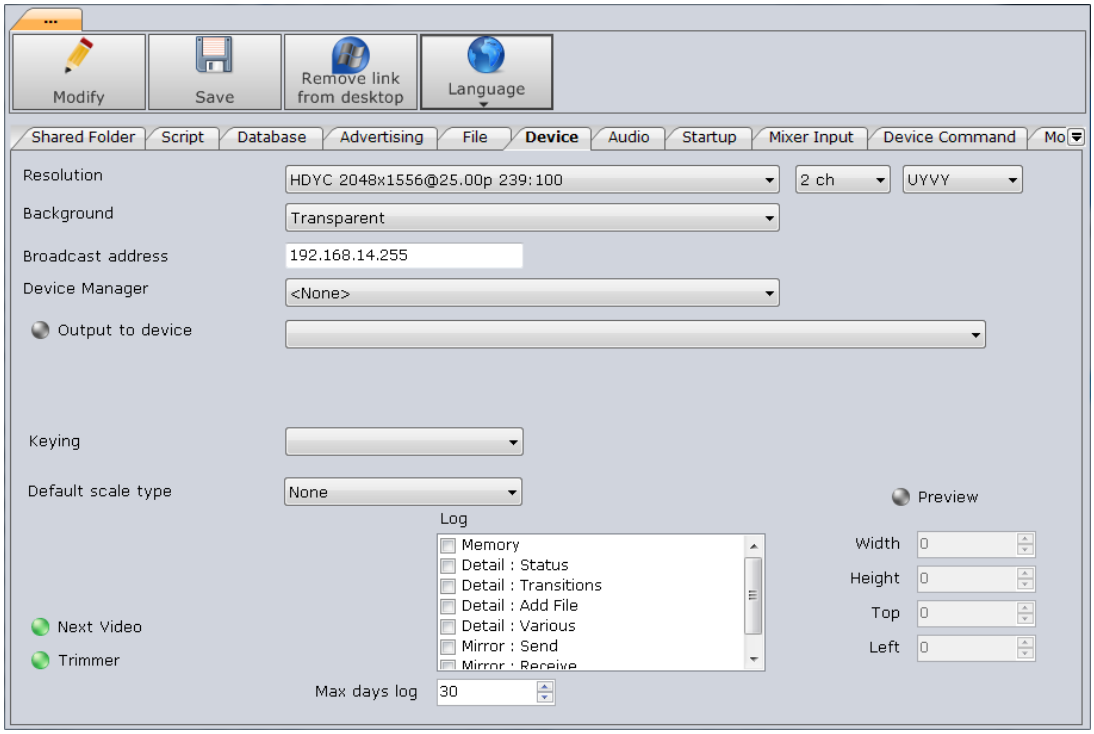
- **Banner advertising**: the path of the file created for the advertisement schedule
- **Media banner advertising**: Folder of commercial elements
- **Zelos file (1-2-3)**: the path of the exported files through Zelos

File



- **Playlist fixed**: playlist that, in the absence of the palimpsest, base-template and base-clock, will be loaded for the airplay.
- **Template**: will be loaded in the absence of the palimpsest.
- **Insert Mode**: (active in absence of the palimpsest) **Number**: Insert the number of items specified by the user. **All clock elements**: inserts all the clock elements. **To the next clock**: only inserts the number of elements needed to reach the next clock.
- **Clock**: will be loaded in the absence of the palimpsest and template.
- **Template Automation**: select the templates in which are all configured the hourly automation and events of the channel.
- **Filler insert mode**: indicates the type of selection of the filler. **Cyclic:** the program will attempt to rotate the greatest possible number of files, with **duration** in the selection of files, the priority will be given always at the time to fill and then the file length, with **Runtime Scheduling** playout will follow the settings of the base-clock. We recommend setting the field on **duration** if the filler archive is wide and varied in terms of the file durations.
- **Auto filler when gap from stopset greater than seconds, otherwise ignore stopset**: Insert the seconds of gap.
- **Volume liner (Base)**: Set the lowering of the volume of the tracks in the case of overplaying with the liner and Voice Over**.**
- **Reload playlist at next clock**: the change made to the palimpsest in Philo Media Manager will apply from the next clock.

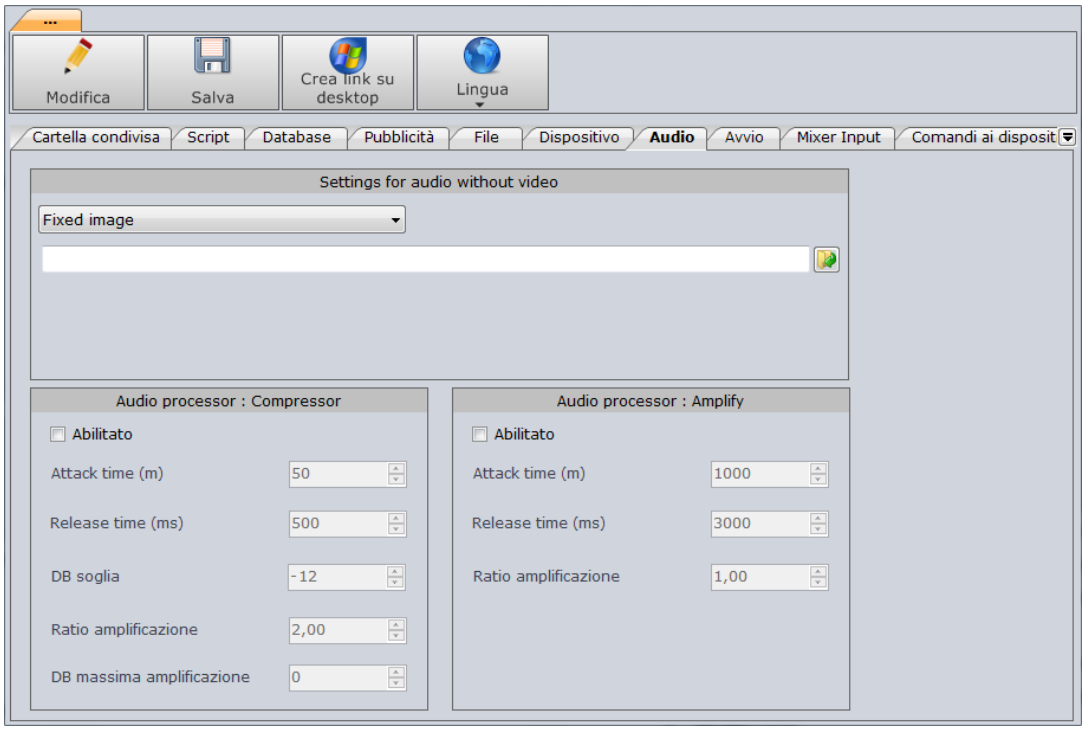
Device



- **Resolution**: Select the resolution of the screen (e.g. 720x576 PAL 4:3) and audio channels.
- **Background**: select the color of the video in the absence of images (e.g. Black).
- **Broadcast Address**: Enter the address of communication between applications.
- **Device manager**: If you installed the Device Manager software, select the reference computer.
- **Output on the device**: Select the Output card.
- **Log**: Select the log type that you want to store.
- **Max days log**: number of days to retain application logs.
- **Preview**: enable the main output preview simulation at the position indicated.

Audio

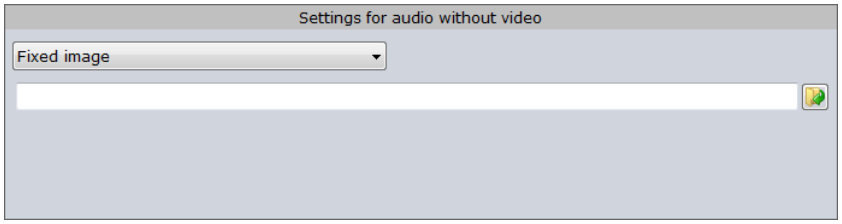
In this tab, you can enable the audio processor on the auxiliary output.



Settings for audio without video

In this section, you can choose the content you want to view in the case of items that do not have video or images of **Philo Media Manager**.

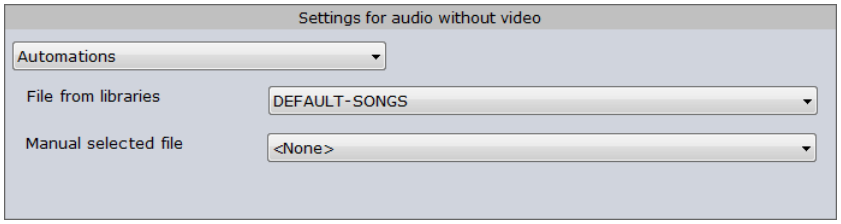
Fixed Image



Enter the path and file name of the image will be adapted to the size of the master output.

If in the archive is a reference to pictures or videos from the match to the file will be transmitted to those.

Automation

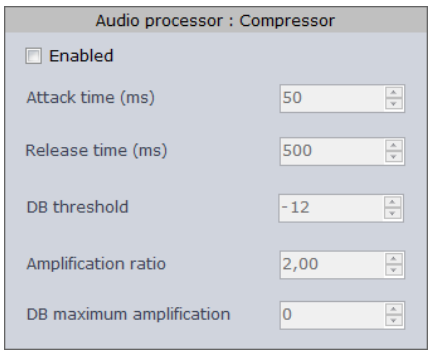


Selecting **Automation,** it is possible to apply of the automations already created in Philo Media Manager.

- **File from libraries**: automation to run on files in the archive by Philo Media Manager
- **Manual selected file**: automation to run on external files to the vault.

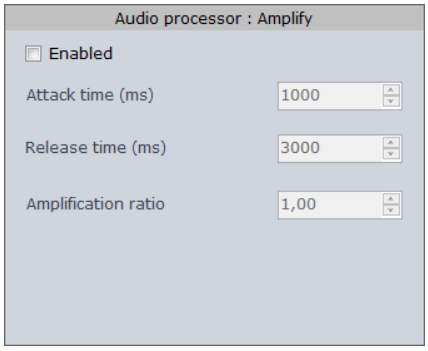
If you do not select automation will not display any image, even if they are inserted in the tab of the file.

Audio Processor: Compressor



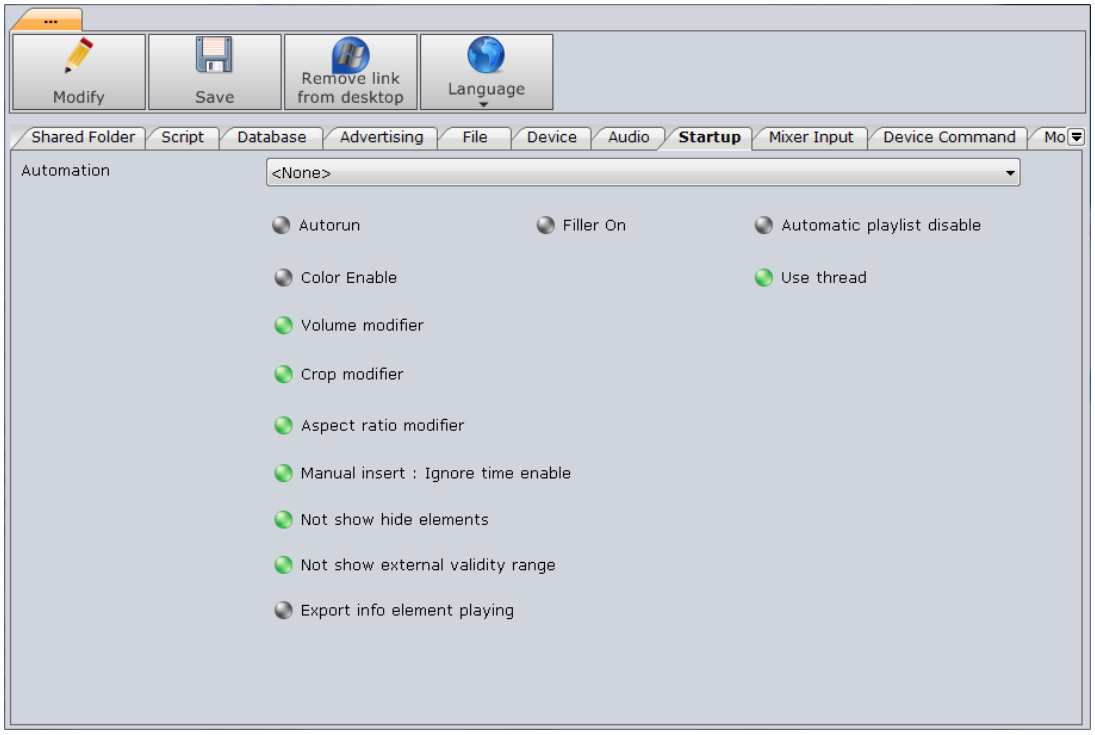
- **Enabled**: Enables or disables the compressor
- **Attack time**: Time in milliseconds of the compressor attack
- **Release time**: Time in milliseconds of the compressor release
- **Db Threshold**: the threshold of the compressor in Db

Audio Processor: Amplifier



- **Enabled**: Enables or disables the amplifier
- **Attack time**: attack time in milliseconds
- **Release time**: time of release in milliseconds
- **Amplification ratio**: maximum amplification in Db

Startup



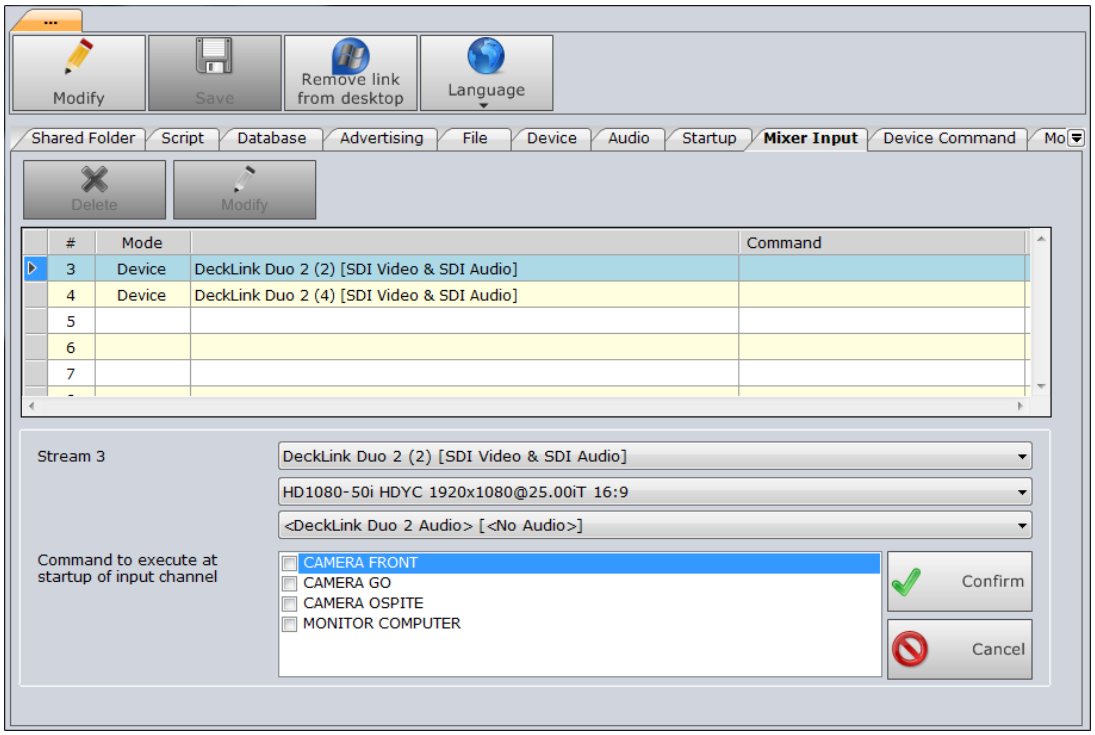
In the configuration of the playout, it is possible to select an automation to execute at the startup.

- **Autorun ON/OFF**: if ON begins playing the playlist at the startup.
- **Filler ON/OFF**: if ON, in the absence of playlists, the files included in a filler playlist will automatically transmit.
- **Automatic Playlist Disables**: you can disable the automatic loading of the daily schedule
- **Color Enable ON/OFF**: if ON, in Flu-O playlist will active colors set in Philo for all the tables.
- **Volume modifier**: enable the playout volume change
- **Crop Modifier**
- **Aspect Ratio Modifier**
- **Manual insert: ignore time enable**: If enabled will ignore months and timetables enabled/disabled in Philo
- **Not show hidden items**
- **Not show external validity range**
- **Export info elements playing**: Generate the file with the playing element info for the streaming metadata.

Mixer Input

List of the available inputs, for each of which it is possible to set:

- **File**: can be directly selected a video file, to use as animated background.
- **Playlist manual**: you can create a manual playlist in Philo and match it to the stream.
- If you have installed an acquisition card will be displayed in list

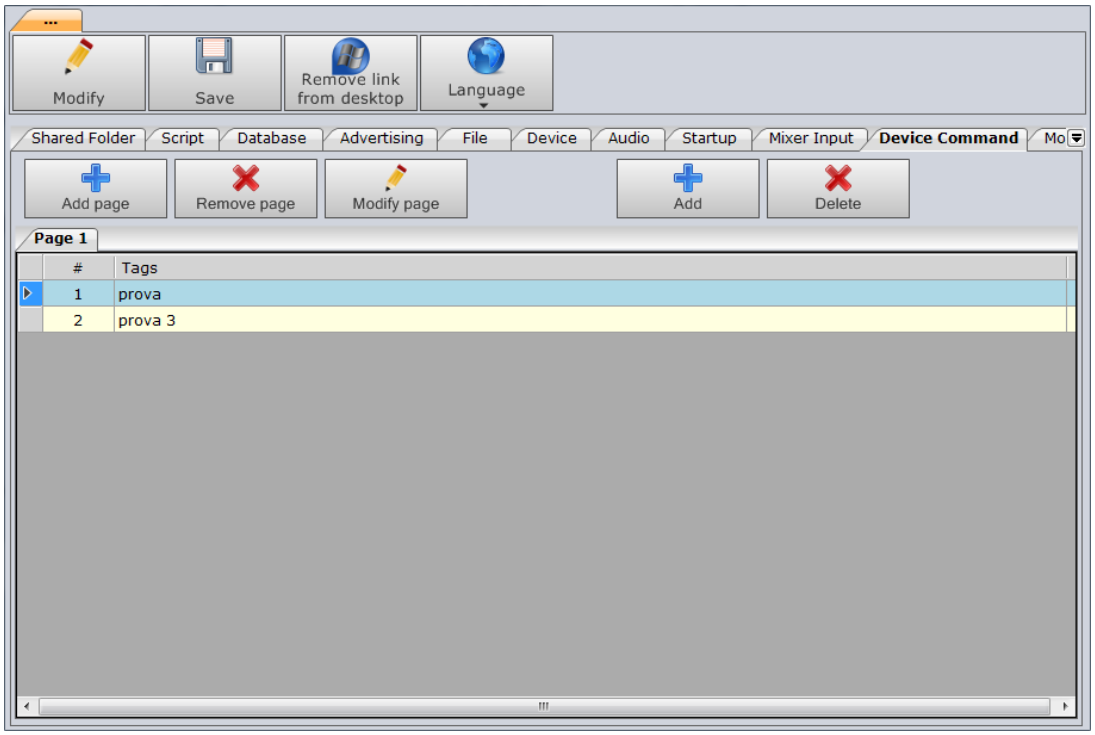


Selecting a device for video input, you can select the format audio and video capture.

If you also have installed the Device Manager will be visible the list of combined automations (Philo Media Manager).

Device command

In this tab, you set up the keys for controlling external devices directly from the playout (Tools)

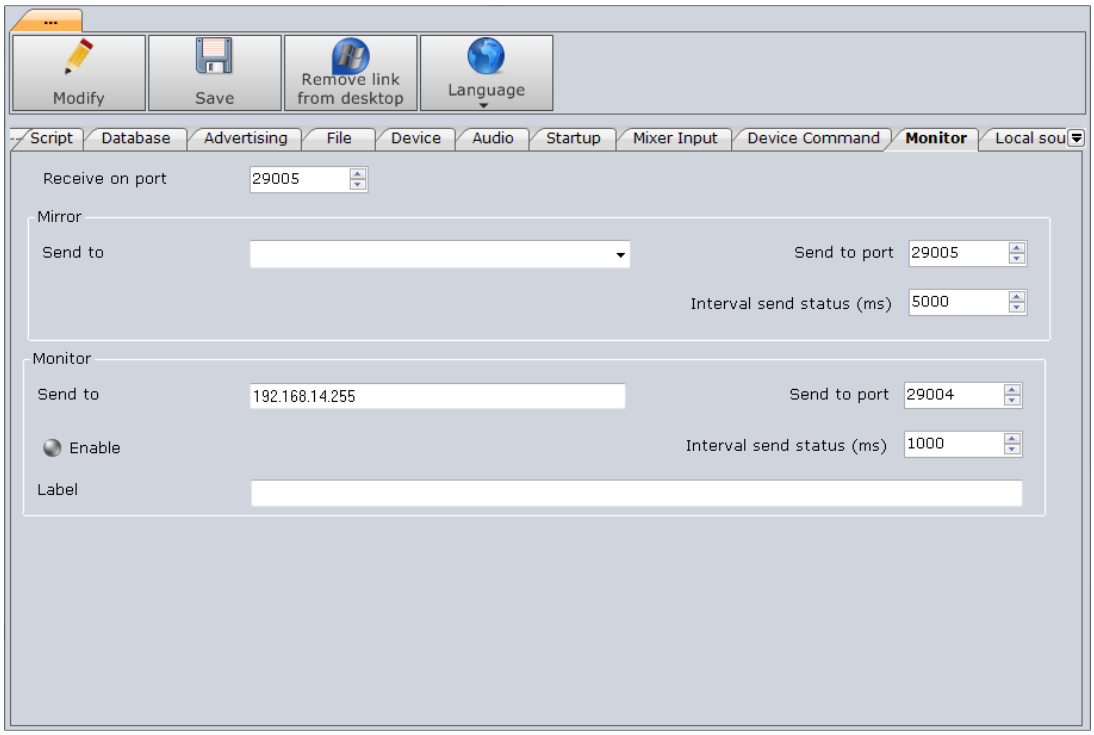


Press **Add** to add keys and tick the action in the list proposed; press **Add page** to add pages (tab).

Press **Save** to save the changes.

Monitor

The setting of the emergency system (monitor) and mirroring.



- **Receive on Port**: UDP port for receiving commands

Mirror

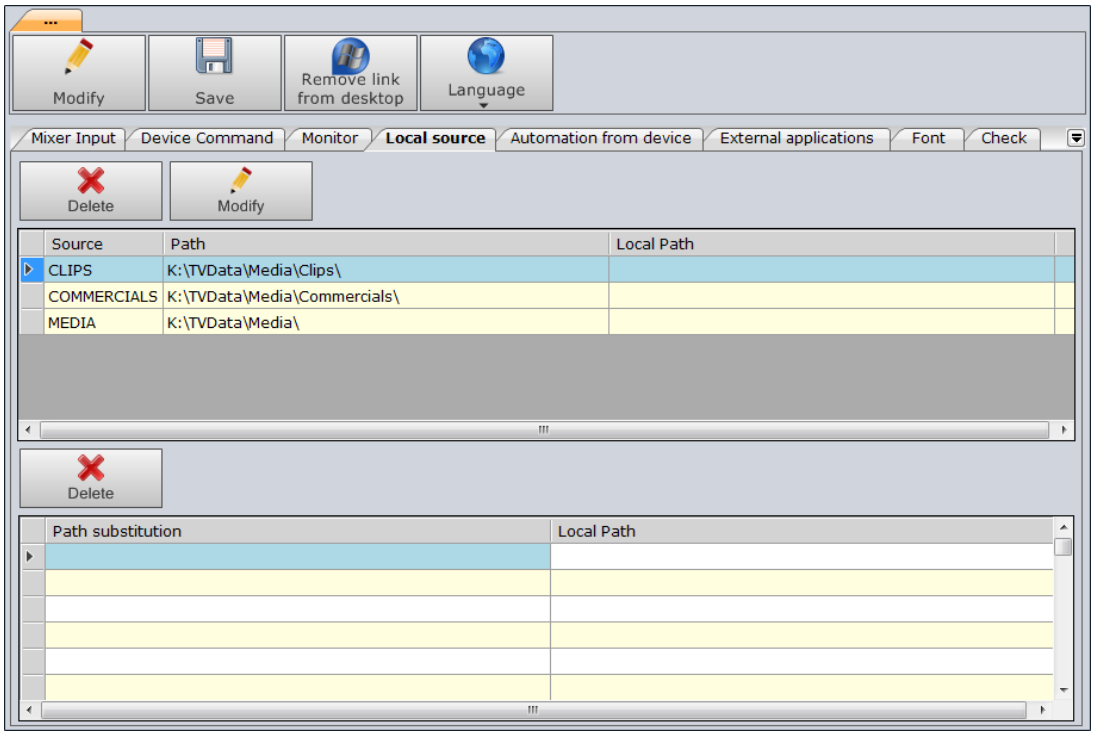
- **Send to**: select from the list the computer to which you want to send the information to the mirroring
- **Sends to port**: UDP port to which to send the commands of the mirror
- **Interval send status**: milliseconds interval between a sending and the other

Monitor

- **Send to**: IP address of the computer to monitoring
- **Send to port**: UDP port for communication with the Monitor
- **Enable**: Enable or disable the sending of the state of the playout to monitor
- **Interval send status**: milliseconds interval between a sending and the other
- **Label**: label to be sent to the monitor

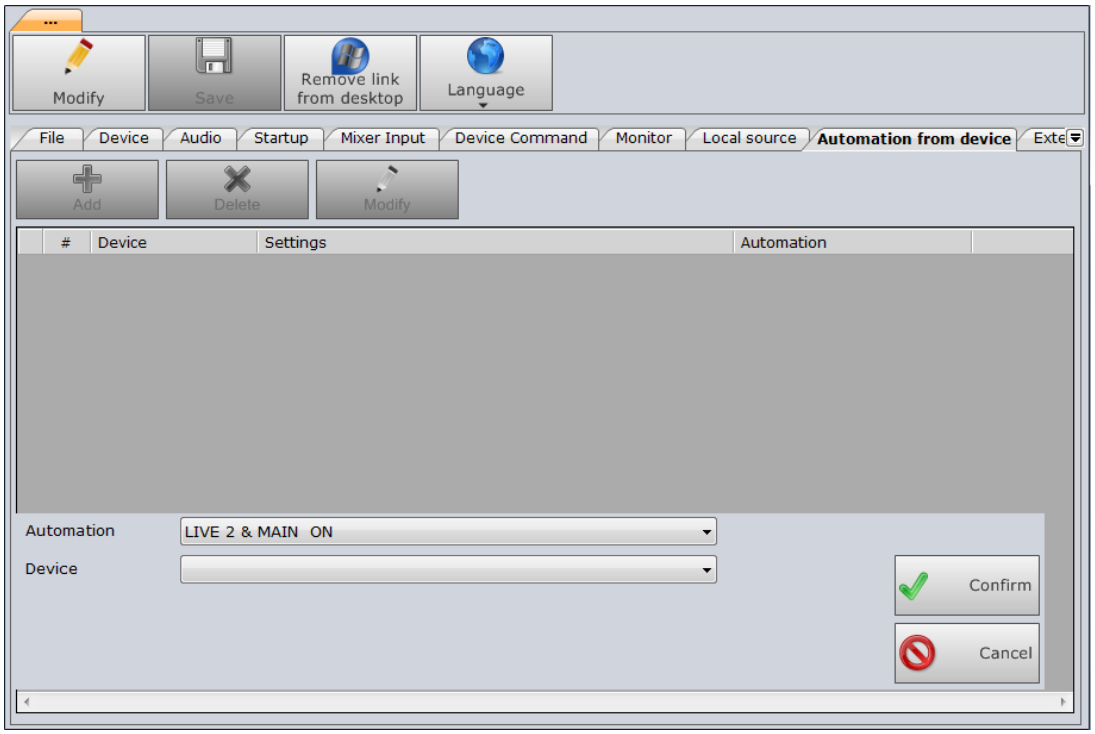
Local source

Returns the list of sources set in Philo and you can edit them in the case in which locally are different.



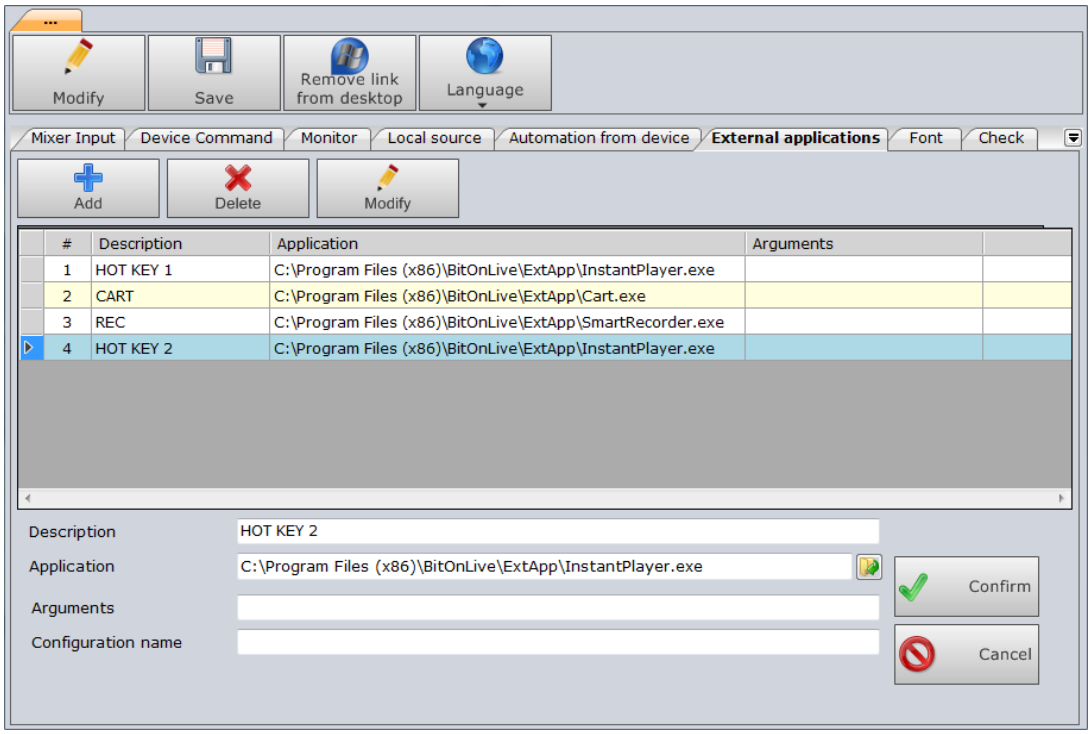
Automation from device

Start an automation if the status of a device presents the setting indicated.



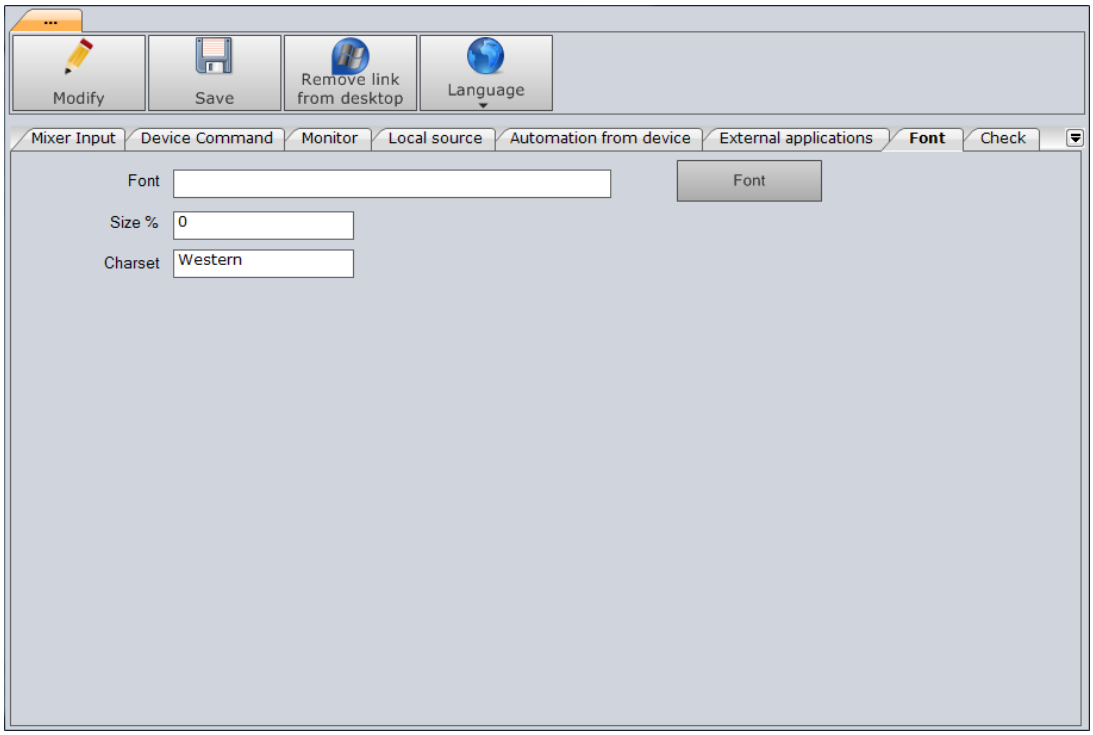
External Application

This is the list of external applications that you can add to the interface of the playout, for example the recorder, the cart, the hotkey.



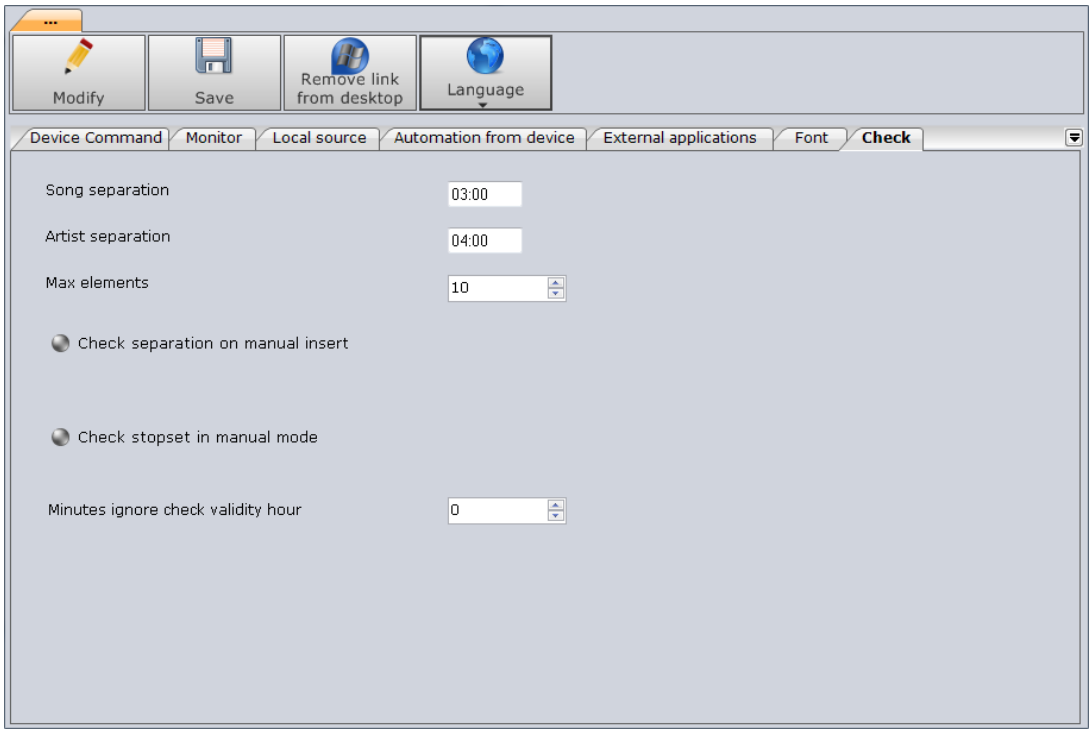
Font

Allows customization of the font used in the playout.

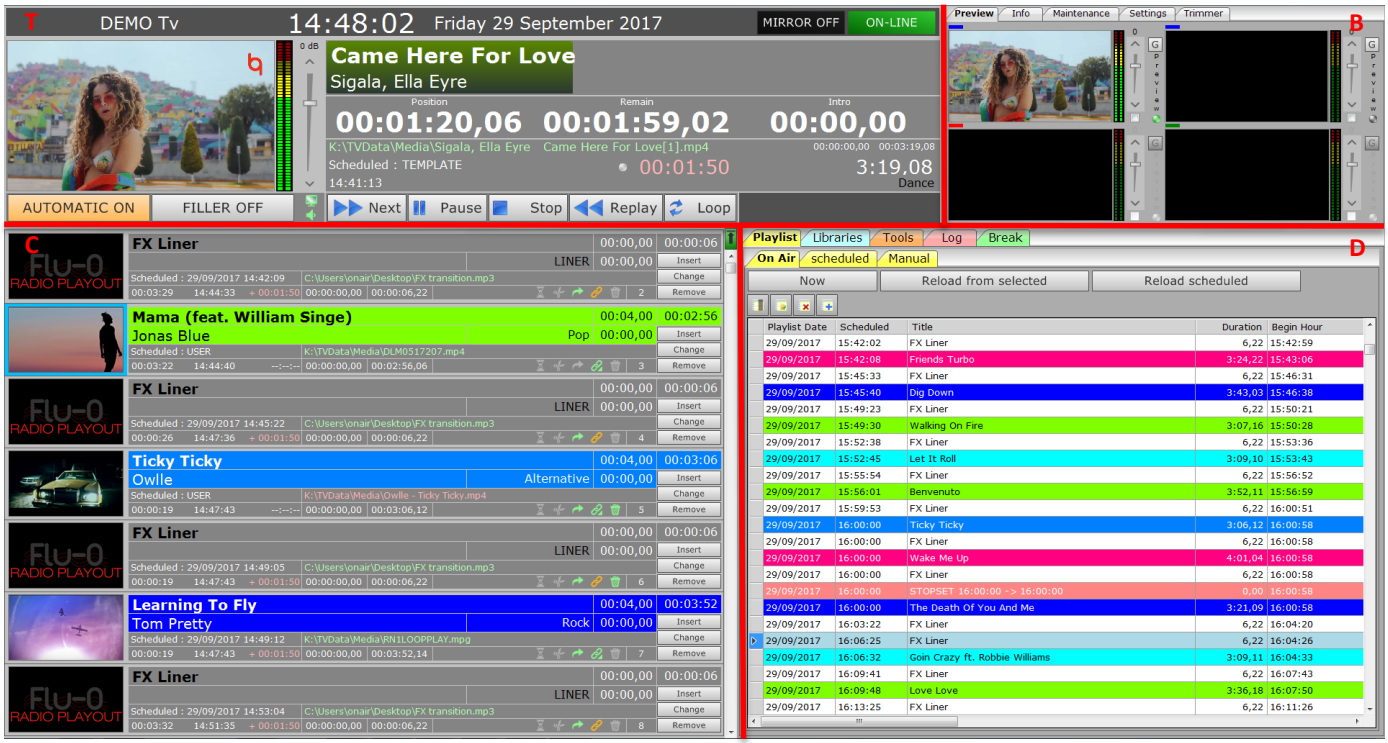


Check

In check tab, are set up rules for the control of the elements selected in the case of absence of the palimpsest.



- **Song separation**: time of separation between the elements with the same title
- **Artist separation**: time of separation between the elements with the same author
- **Max elements**: Number of elements among which select the next one
- **Check separation on manual insert**: enables the control of the separation even in the case of manual insert
- **Check stopset in manual mode**: controls the presence of stopset also in manual mode
- **Minutes ignores check validity hourly**: disables the control of validity clockwise on the elements within the indicated time (even in the presence of the palimpsest)



The working area of the user is divided into 4 parts:

- A => onair file data
- B => preview and general information
- C => programed playlist
- D => database, log, tools

Event on air (area A)

- 1 => Mixer preview. By right clicking on the preview will display a menu that allows you to force the Field in use, the Aspect Ratio and set markin and markout. The setting change is immediate and is not applied in the database.
- 2 => title and author of the file
- 3 => name and path of the file
- 4 => duration of the file
- 5 => position to which came the reproduction
- 6 => remaining time
- 7 => advance/delay with respect to the scheduled time or at the next STOPSET
- 8 => Enable/Disable video/audio preview
- 9 => Start time
- 10 => Scheduled mode of the file

Commands

If "Automatic" is off starts playing the first file in the playlist. If it was previously clicked the pause key, causes restart playback

Pauses the onair event

Interrupts the onair event and set the "Automatic" mode to OFF

Interrupts the onair event and passes to the next

At the end of the onair file the program will automatically move to the next one

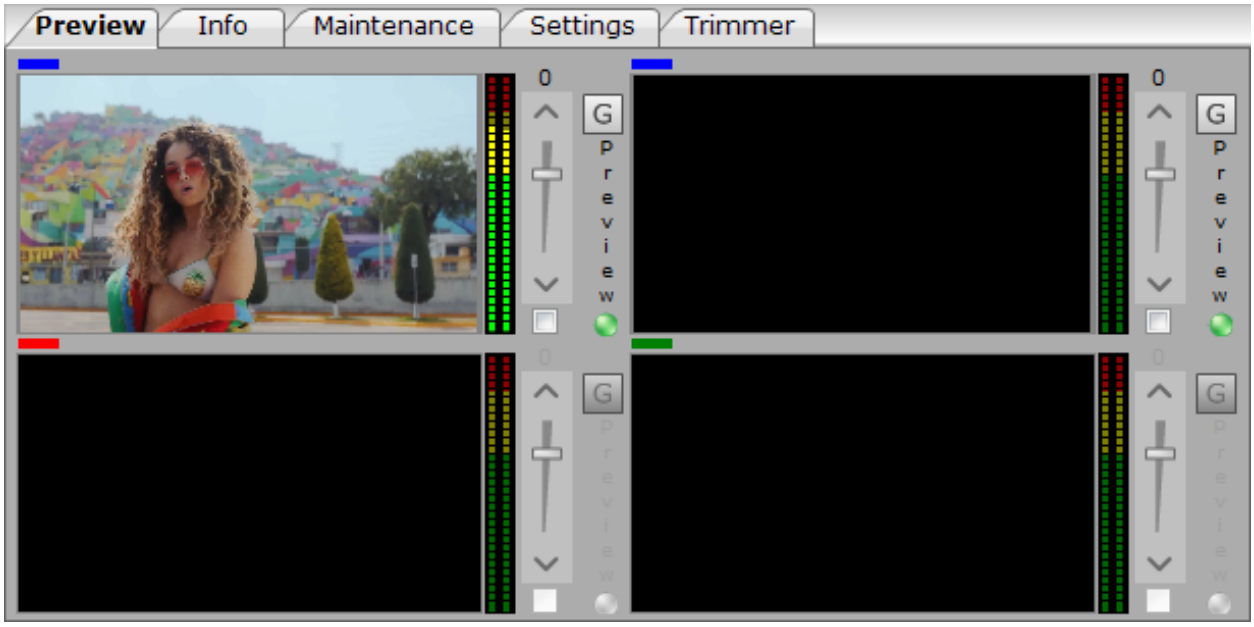
At the end of the onair file the program will stop pending commands

In the event of need Flu-O will automatically fill any holes with the preset file as fillers in Philo

By clicking the **Loop** button, the onair file will be transmitted in a loop until the loop is disabled or until you press the **NEXT button**.

Click the **Replay** button to play the onair file from the beginning.

Preview and general information (area B)



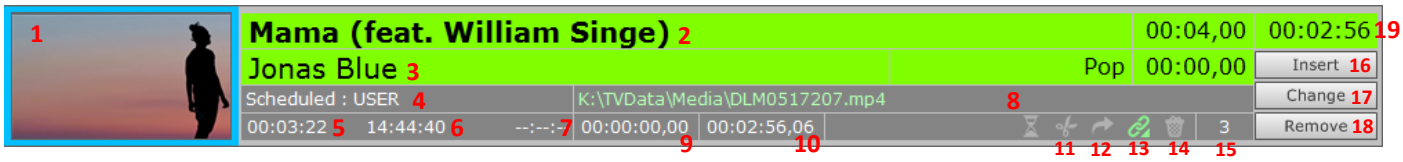
At the top, preview the file in wave and a preview of the first frame of the next file.

Preview of the inputs enabled.

Click on the **G** button for manage quickly the graphics.

Playlist Area (C)

In this area you will find the complete list of what composes the playlist; for each element are specified various data such as title, author, programming time, duration etc.



- 1 => Image
- 2 => Title
- 3 => Author
- 4 => day and hour of palimpsest, or programming mode (Template, Clock or User)
- 5 => Missing Time to play
- 6 => real time playing
- 7 => expected delay on the basis of the palimpsest time
- 8 => Path and name of the physical file
- 9 => Markin
- 10 => Markout
- 11 => If the icon is green means that the file is **adjustable**, and then in the case of necessity will be automatically reduced the duration using the parameters of the intro and outro
- 12 => If the icon is green means that the file is a **suspendible**. Therefore in case of need the file can be removed from the playlist
- 13 => If the icon is green means that the file is **chained** to the next one; if yellow, the file is the last of the chain
- 14 => If the icon is green the file will be skipped and will go directly to the next file
- 15 => indicates the location of the file in the playlist
- 16 => to enter a new item in the playlist click the **Insert key** and select the file from the library; the file will be inserted before the one on which there is positioned to carry out the insertion.
- 17 => To change a file already inserted, click the **Change button** and select the new file from the list on the right
- 18 => To remove a file, only from this list, click **Remove**
- 19 => Duration of files, from Markin a Markout

If the path and file name are in red means that file is missing.

By clicking with the right mouse button on the record, you will see a menu with several options:

- **Trimmer**: Allows you to edit markin markout and the file directly from flu-O
- **Cut:** removes the selected item from the playlist
- **Copy**: Copy the selected item
- **Paste**: paste in the position in which is located the mouse the item copied or cut

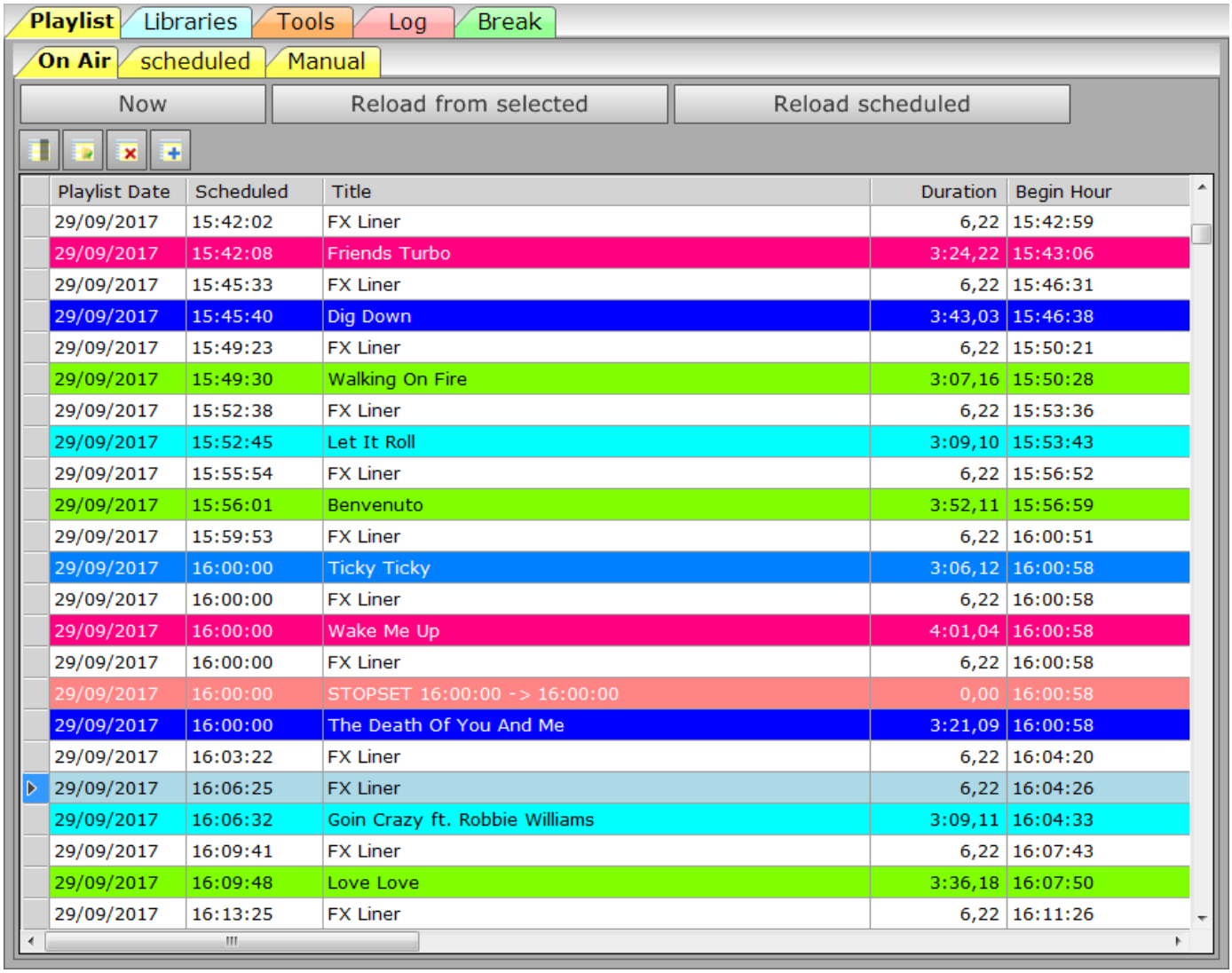
Trimmer

Thanks to the trimmer function, you can set the file markin/markout directly from the playlist; changes will apply only to the file in the playlist, and will not be saved in the database.

Clicking Trimmer will appear a new tab in the upper right area (B).

By dragging the cursor over the toolbar or using the keys play, (-)1 Sec, (-)1 Frame positioned on the points of markin and/or markout and secure them by pressing the relevant buttons.

Click **Apply** to terminate the operation and apply changes, **Reset** to return the values to the original ones and continue in the change, **Cancel** to cancel the change and close the window.



Playlist Date	Scheduled	Title	Duration	Begin Hour
29/09/2017	15:42:02	FX Liner	6,22	15:42:59
29/09/2017	15:42:08	Friends Turbo	3:24,22	15:43:06
29/09/2017	15:45:33	FX Liner	6,22	15:46:31
29/09/2017	15:45:40	Dig Down	3:43,03	15:46:38
29/09/2017	15:49:23	FX Liner	6,22	15:50:21
29/09/2017	15:49:30	Walking On Fire	3:07,16	15:50:28
29/09/2017	15:52:38	FX Liner	6,22	15:53:36
29/09/2017	15:52:45	Let It Roll	3:09,10	15:53:43
29/09/2017	15:55:54	FX Liner	6,22	15:56:52
29/09/2017	15:56:01	Benvenuto	3:52,11	15:56:59
29/09/2017	15:59:53	FX Liner	6,22	16:00:51
29/09/2017	16:00:00	Ticky Ticky	3:06,12	16:00:58
29/09/2017	16:00:00	FX Liner	6,22	16:00:58
29/09/2017	16:00:00	Wake Me Up	4:01,04	16:00:58
29/09/2017	16:00:00	FX Liner	6,22	16:00:58
29/09/2017	16:00:00	STOPSET 16:00:00 -> 16:00:00	0,00	16:00:58
29/09/2017	16:00:00	The Death Of You And Me	3:21,09	16:00:58
29/09/2017	16:03:22	FX Liner	6,22	16:04:20
29/09/2017	16:06:25	FX Liner	6,22	16:04:26
29/09/2017	16:06:32	Goin Crazy ft. Robbie Williams	3:09,11	16:04:33
29/09/2017	16:09:41	FX Liner	6,22	16:07:43
29/09/2017	16:09:48	Love Love	3:36,18	16:07:50
29/09/2017	16:13:25	FX Liner	6,22	16:11:26

Playlist

On Air

View the complete list of the scheduled elements comprised of manual modification.

- If was originated in Philo as palimpsest, in “scheduled” column will be reported the expected playing time, in “Begin Hour” column is reported the real time of actual execution.
- If you have loaded a manual playlist will be reported **Manual Playlist**.
- If the element has been inserted by the user, will be reported **User**.

The elements already transmitted are displayed in *italics*.

Now	Place the list on the row corresponding to the onair element
Reload from selected	Charging the playlist from the selected point, manual changes included.
Reload scheduled	Performs the reload of the playlist.

Scheduled

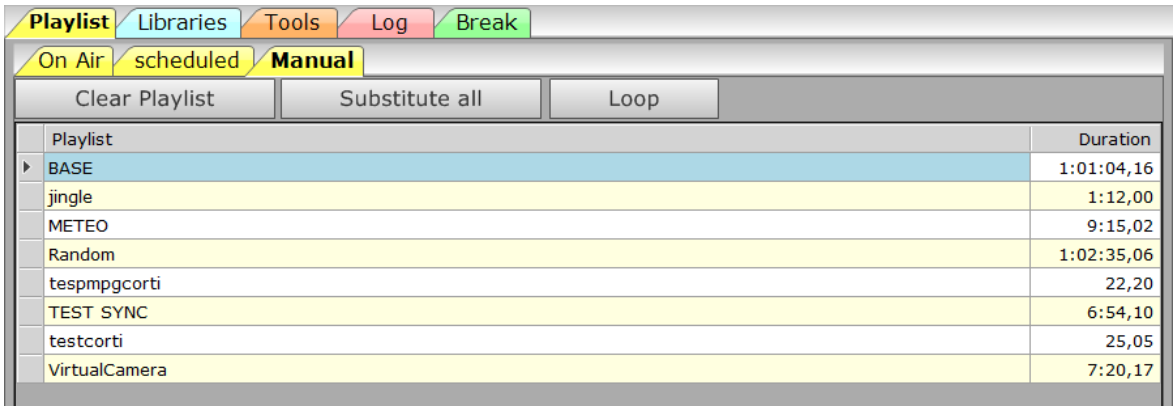
Displays the list of items scheduled in Philo Media Manager.

You can also view the playlists of different days.

Manual

List of manual playlists created on Philo Media Manager.

By clicking on the button **Clear Playlist** will be deleted all scheduled events in playlist.



Clear the playlist of playout

Replaces all the elements of the ladder with the content of the playlists selected Manual

Performs a continuous cycle of all the elements present in the playlist.

Libraries

All of the archive inserted and managed with Philo Media Manager is here available to the user for a rapid insertion in the playlist.

To insert a new file click on **Insert key** in the playlist and double click on the item you want to insert; the file will be inserted before the element on which it is pressed **Insert**.

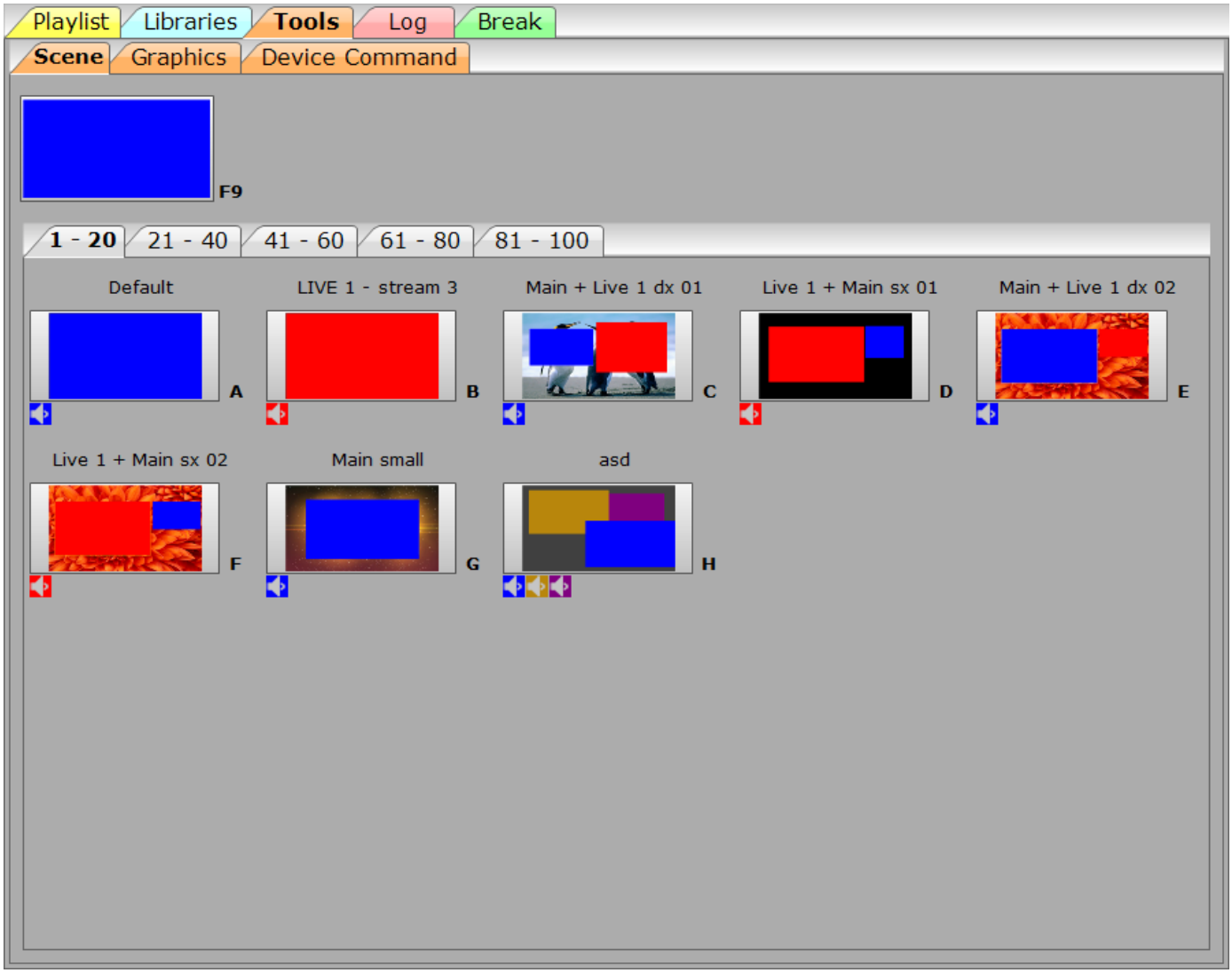
To replace a file that is already in the playlist, press the **Change key** in correspondence of what you want to replace and select with a double-click the new file.

The inserts and the displacements of the elements in the playlist can also be performed with Drag & Drop.

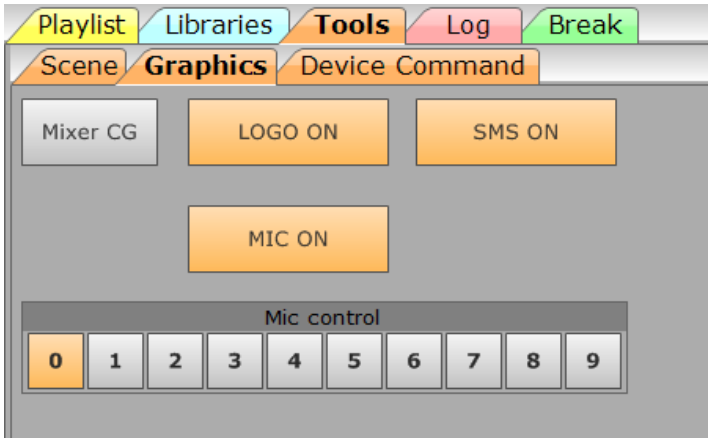
Tools

Scene

With the term scene, we identify the layout of the transmission; in every scene, you can set the size and position of the stream, deciding audio and video transition times, enabling and disabling the audio, assigning predefined shapes, edges, inclination etc. For each scene created with **Template CG** corresponds a button with a preview image and its name; by clicking on the corresponding scene will be applied immediately on the main stream.



Graphics

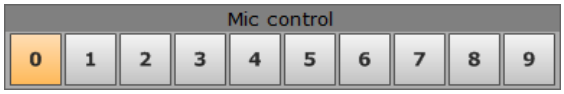


Opens the graphic control mask

Enables or disables the logo display

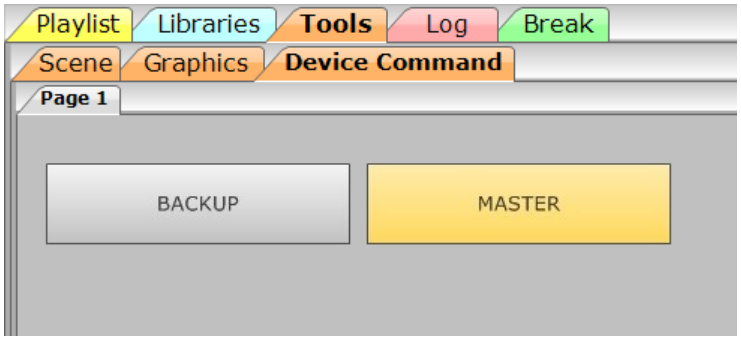
Enables or disables the SMS display

Enables or disables the reception of the Microphone Detect commands for the automation



Through the Mic Control, it is possible to select which of the automations combined with the command reception by Microphone Detect.

Commands to devices

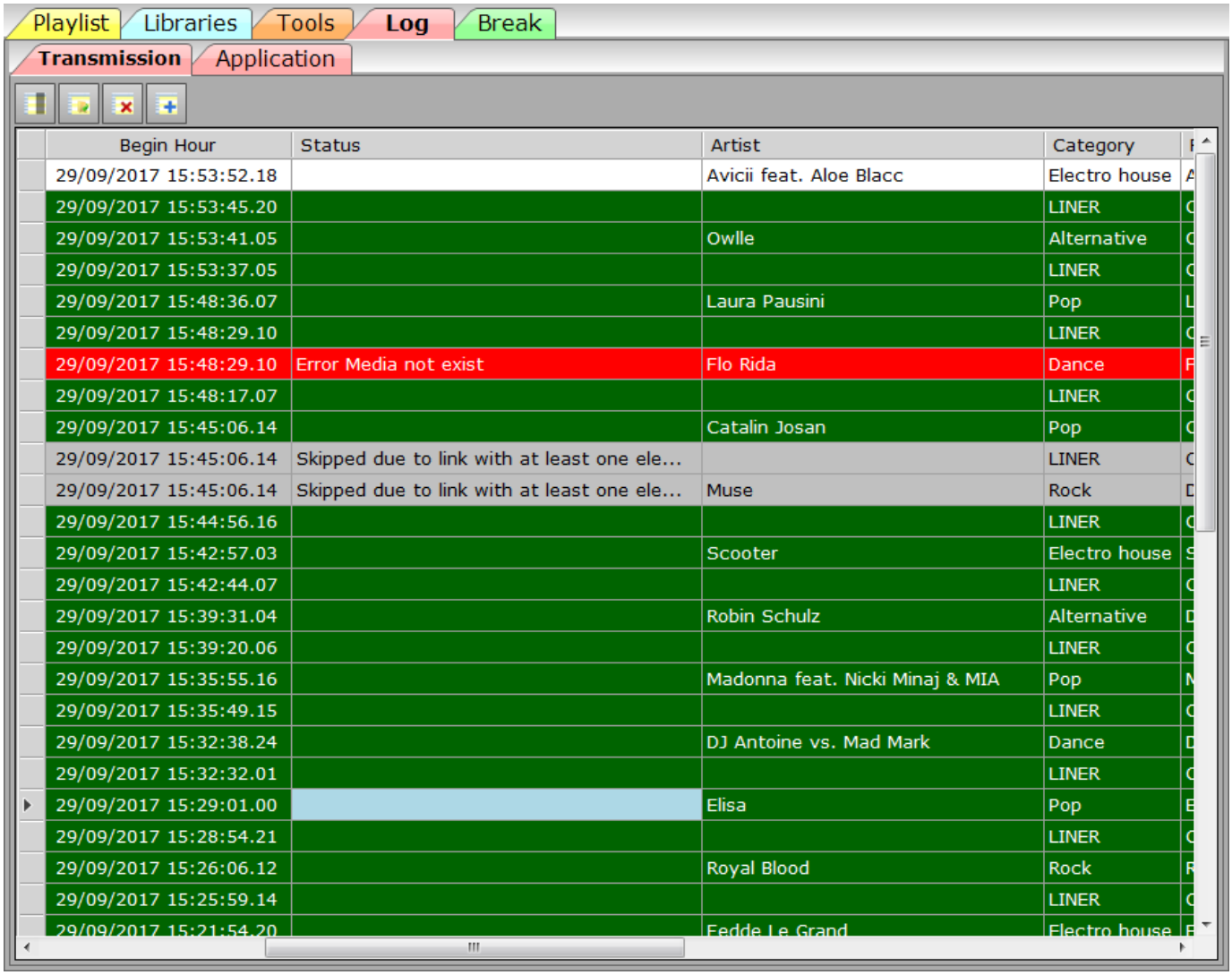


In the **Device command** section are displayed all keys associated to the external commands, these commands are set in Philo Media Manager.

Log

Transmitted

- White: playing element
- Green: file correctly transmitted
- Red: The file has not been transmitted and the **Status column** indicates the reason



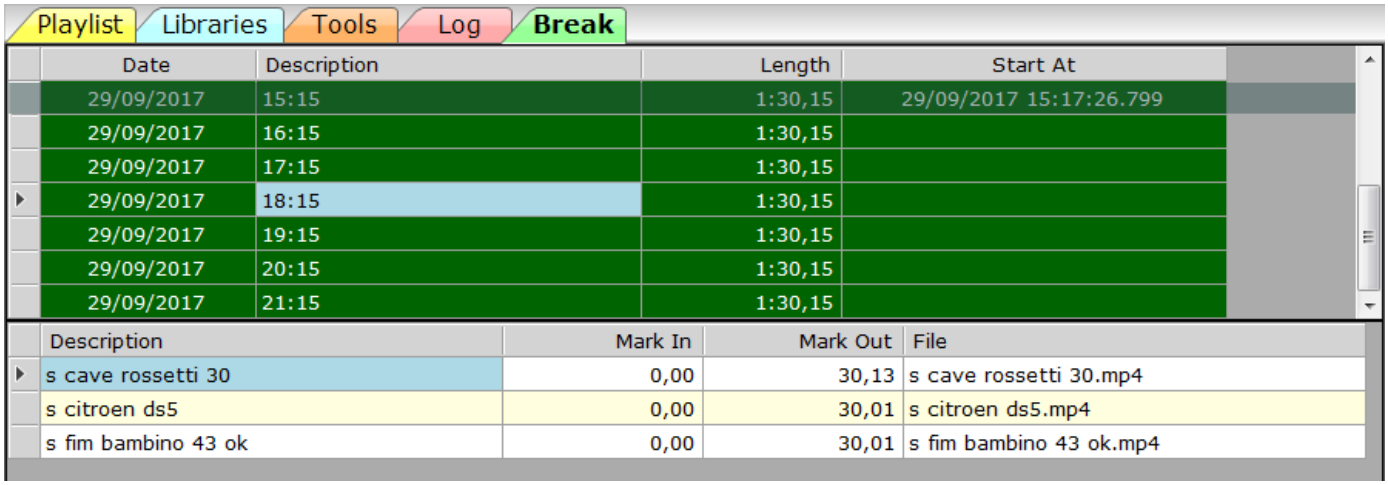
Begin Hour	Status	Artist	Category
29/09/2017 15:53:52.18		Avicii feat. Aloe Blacc	Electro house
29/09/2017 15:53:45.20			LINER
29/09/2017 15:53:41.05		Owlle	Alternative
29/09/2017 15:53:37.05			LINER
29/09/2017 15:48:36.07		Laura Pausini	Pop
29/09/2017 15:48:29.10			LINER
29/09/2017 15:48:29.10	Error Media not exist	Flo Rida	Dance
29/09/2017 15:48:17.07			LINER
29/09/2017 15:45:06.14		Catalin Josan	Pop
29/09/2017 15:45:06.14	Skipped due to link with at least one ele...		LINER
29/09/2017 15:45:06.14	Skipped due to link with at least one ele...	Muse	Rock
29/09/2017 15:44:56.16			LINER
29/09/2017 15:42:57.03		Scooter	Electro house
29/09/2017 15:42:44.07			LINER
29/09/2017 15:39:31.04		Robin Schulz	Alternative
29/09/2017 15:39:20.06			LINER
29/09/2017 15:35:55.16		Madonna feat. Nicki Minaj & MIA	Pop
29/09/2017 15:35:49.15			LINER
29/09/2017 15:32:38.24		DJ Antoine vs. Mad Mark	Dance
29/09/2017 15:32:32.01			LINER
29/09/2017 15:29:01.00		Elisa	Pop
29/09/2017 15:28:54.21			LINER
29/09/2017 15:26:06.12		Royal Blood	Rock
29/09/2017 15:25:59.14			LINER
29/09/2017 15:21:54.20		Fedde Le Grand	Electro house

Application

Displays the list of all the playout operations execution both automatic and controlled by the user: Preparation of files, sending parameters to the graphics, adding, deleting, currency files etc.

Break

In the **break** section, you will find the list of advertising break programed and in the lower part the content of each one.



Flu-O TV - Quick start guide

First use

Configure the Playout

After the desktop installation you will find the icon **TV Playout Configuration**, open the program, click on the button **Edit**.

Device

- Resolution: Select the screen resolution (e.g. 1920x1080 PAL 16:9)
- Background: select the color of the video in the absence of images (e.g. Black)

Default graphics

- Autorun ON/OFF (if on begins playing the playlist at the opening of the program)
- Filler ON/OFF (if on in the absence of playlists will automatically transmit files included in a playlist FILLER

Input

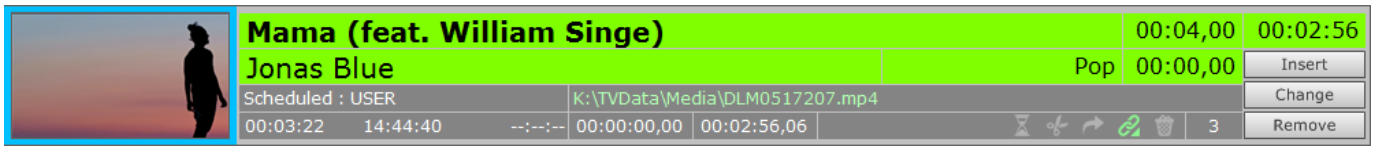
- Set the source to the inputs

The possible settings are:

- **File**: the commands for the setting of the stream may be inserted in a configuration file linked to the video card
- **Manual playlist** : you can create a playlist manual in Philo and match it to the stream
- Video Card Specification

Press **Save** to save the changes.

Enter, Change, Remove a file



Click the **Insert key** and select a file from the database; for access to the database, managed with Philo, click on the tab **libraries** and choose the table from which you want to draw.

If the playout is in the Autorun mode, file will start immediately, otherwise click on the **Next** button; set to **AUTOMATIC ON** to automatically play the next element in playlist at the end of the onair file.

To change a file already inserted, click the **Change button** and select the new file from the list on the right.

To remove a file, only from this list, click **Delete**.

Drag and Drop

It is possible to insert files in the playlist even with drag and drop. Select from the list in the library file and drag it to the desired position.

With the Drag and drop function, is also possible to change the execution order of the elements in the playlist.

Charge Manual Playlist

To load a Manual Playlist created in Philo select in the right tab **palimpsest** => **Operations** and drag and drop the playlist in the list on the left.

Charging the playlist and positioning

Place the playlist on what is transmitting in the instant in which it is depressed.

Charging the playlist from the point in which it is placed in the left list.

Performs the reload of the playlist.

Flu-O TV - HowTo

Quick Edit of MarkIn and/or Markout

Normally the markin and markout files are managed in **Philo Media Manager** however from **Flu-O** you can quickly act on file already in playlists without affecting the data in the archive, to do this click with the right button on the row corresponding to the file and select **Trimmer**.

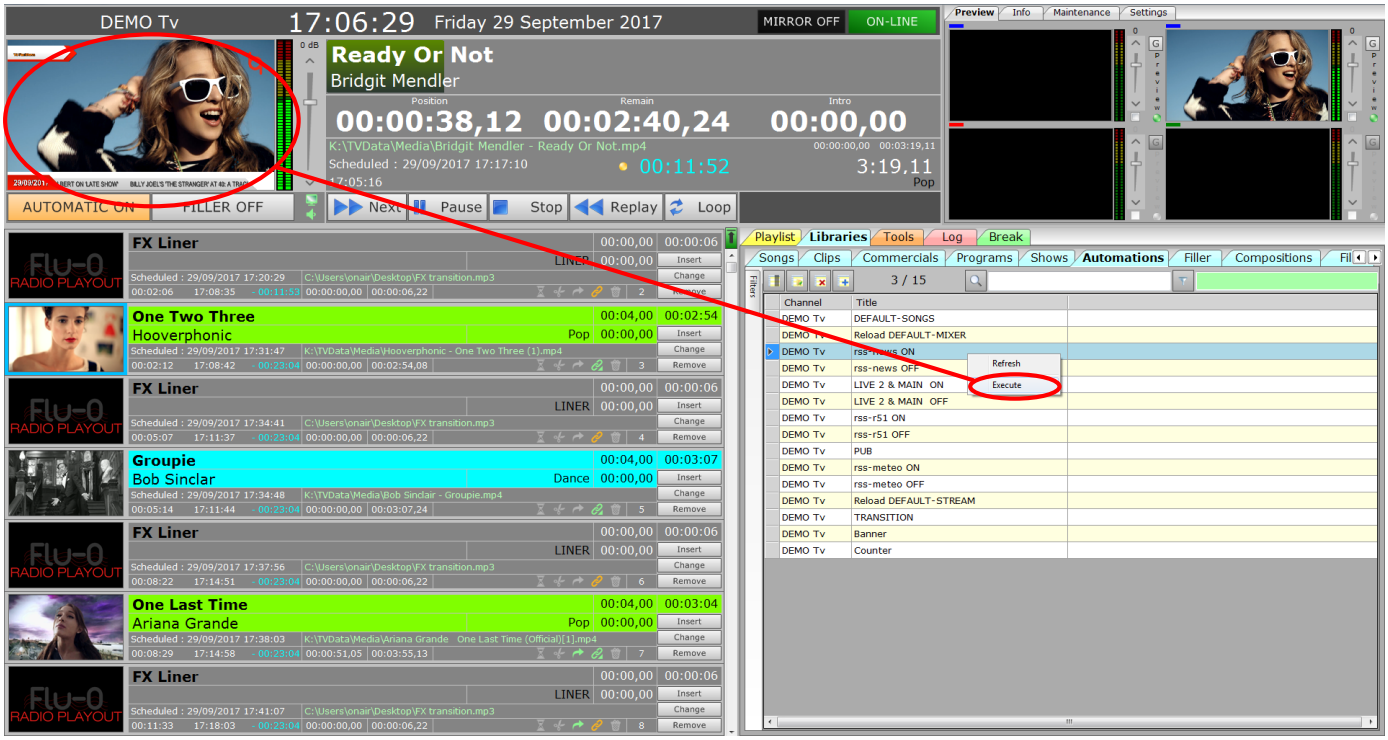
This will display a new tab in the upper right, by dragging the cursor over the time-bar or using the play keys, (-)1 Sec, (-)1 Frame positioned on the points of markin and/or markout and secure them by pressing the relevant buttons. Click **Apply** to finish the operation and apply the changes, **Reset** to return to the original values and continue in the change, **Cancel** to cancel the change and close the window.

Enable/Disable a graphics

To activate a graphics you must first have create it in **Template CG**, then having inserted the automation in **Philo**.

In addition to graphics more or less elaborate, we advise that you create in **Philo** also a default automation, based on the main stream and only with the station logo.

Having done this in **Flu-O** simply right-click on the corresponding row and select **Execute**.



To disable it follow the same procedure but on the default graphics.

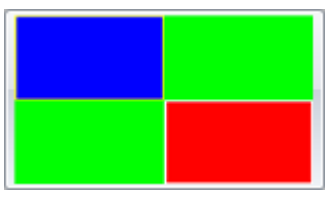
Enable/Disable single graphics elements

To activate and deactivate single graphic elements is necessary to have created the generic automation of the main graphic (Philo – Automate the Graphics).

The second thing to do is create automations ON and OFF for the individual elements that must be managed. After having arranged the automations in **Philo** proceed as for the general activation/deactivation of the graphic.

Switching scenes (stream)

Change the scene means to apply a specific layout to the main output, for example pass from one stream to another or transmit two in positions and sizes.

To do this it is necessary to have set the scenes in **Template CG**, this operation automatically generate the keys in the Tools section of **Flu-O Playout**.

To change the scene is sufficient to click the corresponding button.