# Air Manager (On-Air Management Client)



Air Manager is a multi-functional client application for management of server recording and playout channels, SL NEO graphic stations and media data storages. The app is used to compose, edit and execute recording and playout schedules both for separate servers and for automated recording, archiving, on-air and production complexes.

Air Manager is the main instrument for on-air and recording operators when forming programs in broadcasting complexes.

### **Air Manager Settings**

Configuring Air Manager allows setting its connections to active server modules of one or several SL NEO media servers that operate in a general network. Besides, it allows configuring different application functions and customizing user interface parameters (fonts, styles, etc).

Setting must be implemented every time when installing Air Manager to a new client station, changing IP addresses of SL NEO servers or adding new services (databases, record and playout channels).

The configuring procedure is launched in menu Air Manager→File→Configure....

#### **Preview Tab**

Preview tab allows configuring basic display modes and contains two windows: Preview Parameters and Output Hardware.



Parameter	Description
<b>Preview Parame</b>	eters Section
	Choosing a video display technology in the File Monitor window. The choice depends on work features of a client PC video card with Air Manager launched. Sometimes, motherboard integrated video cards don't display video in the Default mode. If this occurs, choose a mode from the list and reload the app. Supported modes:
	Basic GDI
Display engine	Hw Scale •
	Hw Overlay
	• Basic GDI HQ •
	OpenGL •
	Default
Deinterlace	Turning on/off the mode of forced deinterlacing while viewing full resolution video in the File Monitor window.
Use Lowres Proxy	Turning on/off the mode of displaying proxy-copies (if there are any) in the File Monitor window. If the option is inactive, the File Monitor window displays video in full resolution. The app must be reloaded after activating the option.
Compress Audio	Activating this option allows the app to accept a compressed low-speed audio stream while viewing materials in the File Monitor window. The function is useful in case of a non-compressed proxy-copy audio track (PCM with 1538 kBit/s speed for a stereo pair) and relatively low throughput of the communications channel between SL NEO server and client station. When the Compress Audio option is activated, the server database module automatically starts creating a compressed audio stream for viewing, even if the proxy-copy original stream is PCM (thus, reducing the channel load). Encoding parameters cannot be configured.
Sound Channels	The number of audio channels displayed in the File Monitor window and in the app rec-lists. For this option to work properly, the corresponding number of audio channels must be configured at the server platform. The option allows listening up to eight audio channels at the client station while viewing materials in the File Monitor window.
Show audio overload	The option allows File Monitor window to display relative values of audio levels greater than zero. The app must be reloaded after activating the option.
Reference Audio Level	The parameter default value is "0". The level set in this field defines offset of levels displayed by sound indicators in File Monitor and Record windows to a set number of decibels relative to the dBFS scale. This option is necessary when using a scale of audio levels with a protective range in a digital sound signal. For instance, the maximal level of the audio track is -12 dB by the dBFS digital scale. Indicators displaying -12dB maximal level would make operators work very inconvenient. To make File Monitor indicators and the Record window display the value 0 dB corresponding the dBFS level of -12 dB, a +12 dB shift is set in the Audio Level field.
Sound meter integration period	Sound meter integration period in milliseconds
Show ANCs	Displays ANC data (if any) for a current frame in the File Monitor window.

Parameter	Description
<b>Preview Param</b>	eters Section
Output Hardware	This section allows redirecting audio/video display from the File Monitor window to an output board installed at a client station. Thus, you can view materials using a separate monitor.
IO Board	Choosing the type of a hardware output platform (board) installed at a client station (or at the server itself). Supported: • Плата Matrox DSX, • Плата DekTec DTA (SDI only), • Плата BlackMagic Decklink, • Computer Screen - client station video card
HW Channel	The number of a physical playout channel (port) of the output board, which will be used for displaying by Air Manager. Any conflicts while setting this parameter should be avoided (no other software, including SL NEO server software, should use the port set for Air Manager).
Video Mode	Choosing display format
Conversion	Setting the mode of Up/Down conversion
Use AFD	* Fix Me!
Keyer Mode	The mode when a board may form a pair of Fill+Key signals while viewing 32-bit video with alpha-channel (External mode developed for Matrox DSX boards).
Audio Meter	Activates the audio level indicator while viewing through the output board.
Display Timecode	Activates a counter displaying the cursor current position in the File Monitor window (timecode format) when viewing via output board.
Remap audio channels	Activates support of sound streams redirection in case of output through a board. Control is implemented by switches under sound indicators in the File Monitor window.



After configuring the modes in the Output Hardware window, Air Manager should be reloaded.

### Look and feel Tab

Look and Feel tab allows configuring appearance of the Air Manager user interface.

Last update: 2023/05/08 15:59

airmgr			
Preview Look and feel Record	list Broadcast list Storage	Actions Services	
Tables look			
Font family:	Default	Font size:	Default ÷
Cell height:	Auto	Draw horizontal lines	Draw verticallines
✓ Highlight even/odd lines		Panel font size:	Default 📩
Lists autoscrolling			
AutoScroll button text:	ito Scroll		🗌 Decorate root
Number of rows above current: 3			
Default D&D mode:	ру		<b>•</b>
Clipboard and shortcuts			
Default Image duration:	100 frame(s)	Exel style clipboard	✓ Auto clear replace mode
Buttons look			
Font family	Default	Font size:	Default 🔹
Button height:	Auto		
Other			
Frame validation time:		5sec	
Show frames in clock			
Use Dark Theme (restart req)		Use Docking windows interface	(restart req)
		Highlight Grouped Items	
Set Group Title to Group Name			
	Ok Cancel	Save to file Load from file	

Parameter	Description
Tables look	The window settings allow changing the font type and size in rec- and playlists (Broadcast and Record windows).
Font family	Setting the font name for the Media Browser window and for all Broadcast and Record windows.
Font size	Setting the font size for all windows.
Cell height	Setting the line height in Broadcast, Record, and Media Browser windows.
Draw horizontal lines	Activates displaying horizontal lines separating columns and rows in rec-lists and playlists
Draw vertical lines	Activates displaying veretical lines separating columns and rows in rec-lists and playlists.
Highlight even/odd lines	Activates highlighting for adjacent lines in rec- and playlists.
Panel font size	Setting font size for the information panel at the bottom part of the Broadcast window.
Lists autoscrolling	Window settings allow configuring parameters for rec-lists and playlists automatic scrolling (Auto Scroll). The function of scrolling is activated automatically with the sequence (rec-list, playlist) launch, and allows the operator to see the executable line and the previous/following lines. Auto Scroll is disabled automatically when editing a text line directly during its execution. The function requires manual re-activation in Air Manager Top-menu after the end of editing.
AutoScroll button text	This field contains the text to be displayed next to the Auto Scroll checkbox in Air Manager Top-menu.
Decorate root	Enables additional elements when displaying group lines in Broadcast windows.

Parameter	Description
Tables look	The window settings allow changing the font type and size in rec- and playlists (Broadcast and Record windows).
Number of rows above current	Setting the number of lines displayed before the executable line in Broadcast and Record windows.
Default D&D mode	Setting the mode to use when mouse dragging a line in Broadcast and Record windows. The default value is copying lines (Copy).
Clipboard and	d shortcuts
Default Image duration	* Fix Me!
Excel style clipboard	Enabling this option will add a thick dashed frame to copied lines in rec-lists and playlists. It is necessary to clearly state the place of inserting copied lines in this mode. Copied lines will overwrite the current ones in the place of insertion. (To activate this option, Air Manager must be reloaded)
Auto clear replace mode	Automatically disables the Replace function in playlists. Replace - replacing the selected playlist line with a new one. The Replace mode is activated once while setting the Replace parameter at the Broadcast window bottom part and is disabled automatically afterward. Deselection of the Auto clear replace mode check box in settings turns off automatic deactivation of the Replace function.
<b>Buttons look</b>	Window settings allow changing the font type and size for Air Manager Top-menu buttons:
Font family	Setting the font type for buttons.
Font size	Setting the font size.
Button height	Setting the buttons height.
Other	
Show frames in clock	Activation of this parameter allows displaying hundredth parts of seconds in the clock placed in Air Manager Top-menu.
Frame validation time	Activation of this parameter allows displaying hundredth parts of seconds in the clock placed in Air Manager Top-menu.



Parameter	Description
Tables look	The window settings allow changing the font type and size in rec- and playlists (Broadcast and Record windows).
	Activation of the "window-snapping" interface. Reload the app to apply changes. Added in 2.2.28 version. Interface with enabled option:
Use Docking windows interface (restart req)	Phy         Transportation HD         - 00:00:13:15/(00:00:44:13)         Phy         Phy
	Image: Search Media     Archive Q     Key Fra.     Message
	1 1
Set Group Title to Group Name	The Title column of the group heading displays the group name. By default, it displays Title of the first group element. (To activate this option, Air Manager must be restarted)
Highlight Grouped Items	The Title fields for lines united into a group will have a grey frame (To activate this option, Air Manager must be restarted)

### **Record list Tab**

The tab allows configuring column displaying for rec-lists and contains fields for:

- forming a set of attributes (columns) displayed in rec-list windows, with an option to set a userdefined name for every column,
- user-defined names for Air Manager Top-menu buttons,
- user-defined names for displayed current statuses of rec-list lines.

airmgr							?
Preview	Look and feel	Record list	Broadcast list	Storage	Actions 5	Services	
Column	Text						 <b>_</b>
Group	Group						
Status	s Status						
Source	e Source						
🗹 Tape	Tape						
🗹 Date	Date						
🗹 In Poi	nt In Point						
Out Po	oint OutPoint						
Start	Start						
Start Start	Time Start Time						
Stop 1	Time Stop Time						
🗹 Durati	ion Duration						
Type 🗹	Type						
Media	Media						
Comm	ent Comment						<b>•</b>
Button	Text				Job Status	Text	
Cue	Cue						
Rec I	Rec				Cueing	Cueing	
Next I	Next				Cued	Cued	
StopSeq 3	StopSeq				Rec	Rec	
Append	Append				Inv	Inv	
Delete I	Delete				Done	Done	
Marker I	Marker				Skipped	Skipped	
Reset I	Reset						
GoTo	GoTo						
I					I		
			Ok	Cancel	Save to file	Load from file	

Parameter	Description
Column	List of columns of a rec-list, with an option to turn on/off their displaying
Text	Override recording list columns captions
Button	List of buttons of the Air Manager top panel
Text	Specifying user-defined captions for buttons of the Air Manager top panel
Job Status	The list of record-list statuses
Text	Override job status title

#### **Broadcast list**

The tab allows configuring column displaying for playlists and contains fields for:

- forming a set of attributes (columns) displayed in playlist windows, with an option to set a userdefined name for every column,
- user-defined names for Air Manager Top-menu buttons,
- user-defined names for Air Manager Top-menu buttons.

	ook and feel	Record list	Broadcast	list Stor	age	Actions	Services			
Column	Text									-
<ul> <li>Group</li> </ul>	Group									
<ul> <li>Status</li> </ul>	Status									
<ul> <li>Player</li> </ul>	Player									
<ul> <li>Tape</li> </ul>	Tape									-
<ul> <li>Date</li> </ul>	Date									
<ul> <li>In Point</li> </ul>	In Point									
<ul> <li>Out Point</li> </ul>	t Out Point									
<ul> <li>Start</li> </ul>	Start									
Start Tim	e Start Time									
Stop Time	e Stop Time									
Event Du	r Event Dur									
Type	Type									
Title	Title									
Comment	t Comment									
N	N									
Button	Text				•	Job Status	Text	Color		
ue (	Cue				-7					
av F	Plav					Cueina	Cueina			
ext I	Next					Cued	Cued			
reeze F	Freeze					Preroll	Preroll			
topSeq S	StopSeq					Play	Play			
ppend /	Append					Inv	Inv			
elete [	Delete					Done	Done			
eset F	Reset					Skipped	Skipped			
oTo (	GoTo					Freezed	Freezed			
S Jumps H	HS Jumps					NoMedia	NoMedia			
old H	Hold					GoTo	GoTo			
review F	Preview					Switch	Switch			
	Alarm Clip					HsMiss	HsMiss			
larm Clip 🛛 🖊	Next Marker					LIGER	10010		 	
larm Clip / ext Marker M	VEXUPIONEI					1				

Parameter	Description
Column	List of columns of a playlist, with an option to turn on/off their displaying
Text	Override playlist column titles
Button	List of buttons of the Air Manager top panel
Text	Specifying user-defined captions for buttons of the Air Manager top panel
Job Status	The list of playlist-list statuses
Text	Override playlist statuses text
Color	3Setting status color in the Status column Click on the field to activate a dialog for color settings

Parameter	Descript	ion							
User Status Config	The funct defined cu sense	ion defines four or riteria.	user stat	cuses of play	list lines that are disp	blayed acco	rding to t	he user-	
	The windo triggering Broadca 15:00:39 N Group 1 2 3 4 5 6 Secondary Play :	OK     Cancel       DW of setting crite       ).       st - CAST1 - RUNNING       Status       Play       UserStatus1	Eria for s G @ 25.00 f Start Auto Auto Auto Katy	Status displa	ying (similar to settin <b>DblClick to edit</b> Media <b>Katy Perry - Roar (Official)</b> Ariana Grande - Focus Hockey 5 Zenit-Portu cial)	ng the criter	ia for acti SPI V 1 6 03:11/(00:02	Event Dur 00:02:25:16 00:03:44:23 0:01:00:01 00:04:24:10 25:17)/00:04:29	× •
		Loop Sel: 00:00:00:00	) Tot: 00:1	3:38:12 Done:	Replace Lay 1 Lay 2 La	ay 3 Lay 4 Lay	5 Lay 6 Lay	7 Lay 8 Logo	//
	Example	of displaying the	user sta	atus in a play	list. Added in 2.3.3 v	ersion.			

### Storage

The Storage tab allows to configure local or network connections with database services of one or several SL NEO servers that work in a general network.

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Add Edit Delete Move Up Move Down
Edit Delete Move Up Move Down
Delete Move Up Move Down
Delete Move Up Move Down
Move Up Move Down Metadata Schema
Move Down
Move Down Metadata Schema
Metadata Schema
Metadata Schema
Small
News
Name
Icon
Icon Media
Icon Media In Point Duration
Icon Media In Point Duration
Small

Parameter	Description	
Storage servers	The window containing IP addresses of SL NEO servers with databases connected to Air Manager. These settings are necessary for providing Air Manager access to SL NEO Media Database modules and displaying clips in Media Browser and File Monitor windows.	
Add/Edit	The button allows adding/editing the server with a database you want to connect.	
Delete		
Move Up/Move Down	The buttons serve for sorting the list. The order set here is used for displaying servers and their databases in the Media Browser window.	

Parameter	Description	
Storage servers	The window containing IP addresses of SL NEO servers with databases connected to Air Manager. These settings are necessary for providing Air Manager access to SL NEO Media Database modules and displaying clips in Media Browser and File Monitor windows.	
Del to trash for	The parameter allows setting time (in days) of automatic deletion of materials from the recycle bin. The technology of removing files into a recycle bin works in the following way: when deleting a clip from the Media Browser window, Air Manager puts the material into the Trash folder and defines the time of automatic deletion for this material according to the value specified in Del to Trash field. Setting this parameter is necessary for every workplace (for every Air Manager application respectively).	
Del to trash	Allows redefining time settings for storage of a deleted clip in the recycle bin,	
low chace alarm	Low charge alarm threshold	
Low space alarm	Low space alarm threshold	
Metadata Schema	Metadata schema server: MEDIA (medb://localhost:9900)	
Log user actions	Specifying a folder to store a record of a log-file that contains user actions	
	Information. The window contains fields that allow setting the "Icon view" mode of	
Icon view	icon and text displaying in the Media Browser window.	
Icon view	icon and text displaying in the Media Browser window. Icon size	
Icon size Icon view spacing	icon and text displaying in the Media Browser window. Icon size Spacing between icons	
Icon view Icon view spacing Icon arrangement	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout	
Icon view Icon view spacing Icon arrangement Icon text	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement	
Icon view Icon view spacing Icon arrangement Icon text Text word wrap	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts	
Icon view Icon size Icon view spacing Icon arrangement Icon text Text word wrap Thumbnail view	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts The window contains fields that allow setting the "Thumbnail view" mode of icon and text displaying in the Media Browser window	
Icon view Icon size Icon view spacing Icon arrangement Icon text Text word wrap Thumbnail view Icon size	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts The window contains fields that allow setting the "Thumbnail view" mode of icon and text displaying in the Media Browser window Icon size	
Icon view Icon size Icon view spacing Icon arrangement Icon text Text word wrap Thumbnail view Icon size Column	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts The window contains fields that allow setting the "Thumbnail view" mode of icon and text displaying in the Media Browser window Icon size Column name specified in Air Manager. You can uncheck displaying certain columns.	
Icon view Icon view Icon view spacing Icon arrangement Icon text Text word wrap Thumbnail view Icon size Column Name	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts The window contains fields that allow setting the "Thumbnail view" mode of icon and text displaying in the Media Browser window Icon size Column name specified in Air Manager. You can uncheck displaying certain columns. The displayed column name. Allows to change Media Browser column titles and set user-defined ones.	
Icon view Icon size Icon view spacing Icon arrangement Icon text Text word wrap Thumbnail view Icon size Column Name List view	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts The window contains fields that allow setting the "Thumbnail view" mode of icon and text displaying in the Media Browser window Icon size Column name specified in Air Manager. You can uncheck displaying certain columns. The displayed column name. Allows to change Media Browser column titles and set user-defined ones. The window contains fields that allow setting the "List view" mode of icon and text displaying in the Media Browser window.	
Icon view Icon size Icon view spacing Icon arrangement Icon text Text word wrap Thumbnail view Icon size Column Name List view Icon size	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts The window contains fields that allow setting the "Thumbnail view" mode of icon and text displaying in the Media Browser window Icon size Column name specified in Air Manager. You can uncheck displaying certain columns. The displayed column name. Allows to change Media Browser column titles and set user-defined ones. The window contains fields that allow setting the "List view" mode of icon and text displaying in the Media Browser window. Icon size	
Icon view Icon size Icon view spacing Icon arrangement Icon text Text word wrap Thumbnail view Icon size Column Name List view Icon size Column	icon and text displaying in the Media Browser window. Icon size Spacing between icons Icon arrangement order Left to right: row layout. Top to bottom: column layout Icon text arrangement Word wrapping in long texts The window contains fields that allow setting the "Thumbnail view" mode of icon and text displaying in the Media Browser window Icon size Column name specified in Air Manager. You can uncheck displaying certain columns. The displayed column name. Allows to change Media Browser column titles and set user-defined ones. The window contains fields that allow setting the "List view" mode of icon and text displaying in the Media Browser window. Icon size Column name specified in Air Manager. You can uncheck displaying certain columns.	

Parameter	Description	
Storage servers	The window containing IP addresses of SL NEO servers with databases connected to Air Manager. These settings are necessary for providing A Manager access to SL NEO Media Database modules and displaying clips in Media Browser and File Monitor windows.	
Configure XMP Columns	Specifying metadata schema fields displayed in Media Browser.	

### Actions

The tab Actions allows setting modes of start of events for rec- and playlists.

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airmgr	?
Preview Look and feel Record list Broadcast list Storage	Actions Services
Play/Rec start hot key: None Controller type: None	Port: 1
Broadcast list actions	
Jump:	Make current and play
Skip:	Make current and play
Start type hotkey - Column: None Value	
Final Enable manual start for "HardTime" jobs	Use sync bar only
Message allert sound:	Browse Message allert delay: Osec
Auto strip storage 🔽 Check Part Media 🔽 Check media	in editors 🔽 Check Media Offline Default start type: Sequence 💌
Media Certificates 🗖 Strict Media Markers 🦵 Allow Jump No Media	DnD Player attribute for main lists Editor autosave period: Disable 💼
Confirmation on Reset 🔽 Confirmation on Stop Seq 🖵 Browser Dt	olClk inserts Player colors I Play button sends next
☐ Fix durations on playlist load	dary media
Des list selies	
Reclist actions	Male amount and annual
Jump:	Check media on all starsage
	Check meula on all storages
Ok Cancel	Save to file Load from file

Parameter	Description	
Play/Rec start hot key	Setting a "hot key" at a client station to manage start of events of rec-lists and playlists.	
Controller type	Choosing a controller model for work with recording channels (VTR control, viewing materials in Media Browser).	
Port	The sequence number of controller connected to a client station	
Broadcast list actions	The window of setting Top-Menu buttons for playout management. These settings might be useful while using SL NEO server as a file player in broadcasting studios and in situations, when the playout management process requires complete involvement of an operator.	

Parameter	Description	
	Setting variant responses for the Jump (GoTo) button — commands of an urgent transition to executing any selected action in playlist: •	
	<b>Make current only</b> - pressing the GoTo button continues execution of the current event, the selected playlist line status changes to GoTo. Further pressing the Play button starts playback of the selected line. This option allows replacing the line designated for transition on GoTo command.	
Jump	Make current and Pretake - pressing GoTo continues executing the current event and changes the selected playlist line status to Cued (event is ready for a start command). Further clicking the Play button will lead to instantaneous start of playout of the selected line. This option doesn't allow choosing another line — the transition is possible only to a line with Cued status.	
	<ul> <li>Make current and Play (default value) — pressing GoTo instantaneously starts execution of the selected playlist line.</li> </ul>	
	<b>Restart and Pretake</b> - pressing GoTo stops execution of the current event and changes the selected playlist line status to Cued (the event is ready for the start command).	
Skip	Setting variant responses for the Skip button – the command of urgent transition to execution of the next playlist event. The Skip command is a particular case of GoTo command, so variants of response are identical.	
Start type hotkey	Column+Value	
Enable manual start for "HardTime" jobs	This parameter is default and allows manual launch of playback for events that have the Hard Start type of start.	
Use sync bar only	The option allows managing playback channels using only the buttons for synchronous channel management in Air Manager Top-Menu (see Synchronous operations). Activation of Broadcast windows will not have any influence on the choice and change of the managed channel.	
Message alert sound	Specifying a WAV audio file to play back when receiving messages in the Message List window.	
Message alert delay	Six Me!	
Auto strip storage	When active, this option allows using a clip MediaID while dragging it into a playlist, not linking it to a certain media database. The program channel will search the clip in all connected media databases and play back from the first available one containing the clip. If the option is inactive, Air Manager will use a full path to the clip when dragging it into a playlist, including the media database address. (medb://localhost:9900/title:myclipMediaID)	
Check Part Media	The parameter allows activating signalization in Broadcast windows and playlist editors for the lines containing materials in the process of import or recording (line text color is red, the Status playlist column displays a title Part Media). The app uses Media fields for verification.	
Check media in editors	The parameter turns on/off verification and signalization in playlist editors for lines with materials absent in the server database (the line text color is red, the Status column of a playlist editor says No Media). The app uses Media fields for verification.	
Check Media Offline	🕆 Fix Me!	

Parameter	Description	
	Setting the default start type while forming playlists. There are the following start types: •	
	<b>Auto или Sequence</b> - default type of start for manual placement of clips to the playlist. Lines with this type start automatically after playback of the previous line, providing non-stop execution for a sequence of events.	
Default Start Type	• Manual - manual launch of lines with Play, GoTo or Next commands. Using this start type by default when forming playlists might be useful during playback of clips in broadcasting studios, production of real-time programs, and when there is a need to play back materials randomly instead of a sequence.	
	<b>Hard Start</b> - Tstart of execution of a line/event at a set time. Start of execution is implemented by the server system timer (client PC time may differ). Use NTP time syncronization.	
Media Certificates	🕆 Fix Me!	
Strict Media Markers	🕆 Fix Me!	
Allow Jump No Media	Transition to NoMedia lines with the GoTo button	
DnD Player attribute for main lists	When dragging the selected clip from the Media Browser window to the main playlist window, transfers the Player column value	
Editor autosave period	Periodicity of autosave for the playlists editor, in minutes.	
Confirmation on Reset	Activates confirmation when pressing the Reset button in the playlist	
Confirmation on Stop Seq	Activates confirmation when pressing the Stop button in the playlist.	
Browser DblClk inserts	When the option is active, a double-click on a clip in Media Browser will add it to a selected playlist position.	
Player colors	* Fix Me!	
Play button sends next	The setting changes the "Play" button functionality in a way it stays active during the element playback and launches the next element, when pressed. Added in 2.3.37 version	
Fix durations on playlist load	The setting changes the "Play" button functionality in a way it stays active during the element playback and launches the next element, when pressed. Added in 2.3.63 version	
Check secondary media	Turning off the media status check for secondary events. When checked, the status check is on. Added in 2.3.74 version.	
<b>Rec list actions</b>	Settings of Top-Menu buttons for record management	

Parameter	Description	
	Setting variant responses for the Jump (GoTo) button — the command of urgent transition to executing any selected action in a rec-list •	
	Make current only - pressing the GoTo button stops recording the current event, further clicking the Rec button launches recording of a selected line •	
Jump	<ul> <li>Make current and Pretake - pressing the button GoTo stops recording the current event, the selected rec-list line status changes to Cued (event is ready for the start command). Further pressing the Rec button instantaneously starts recording the selected line.</li> <li>•</li> </ul>	
	Make current and Record (default value) - pressing the GoTo button immediately starts recording the selected rec-list line.	
Enable manual start for "HardTime" jobs	This parameter is default and allows manual launch of recording for events with the Hard Start type of start.	
Check media on all storages	The option allows checking coincidence of names in the Media fields for record events and clip names on all network databases connected to Air Manager.	
Use sync bar only	The option allows managing recording channels using only buttons for synchronous channel management in Air Manager Top-Menu (see Synchronous operations).	

### Services

The option allows managing recording channels using only buttons for synchronous channel management in Air Manager Top-Menu (see Synchronous operations).

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airmgr	?
Preview Look and feel Record list Broad	ast list Storage Actions Services
Record servers	Broadcast servers
Name     Host     Num       REC1     localhost 1       REC2     localhost 2       REC3     localhost 3       REC4     localhost 4   Delete server	Name       Host       Num       Passwd       GrHost       GrNum       GrPI       Storages         CAST1       localhost 1       ********       Local       Local
-VTR servers	×
Host Num Description	
Delete	
Ok	Concol Source to file Land from file

Parameter	Description
Record servers	Configuring parameters of Air Manager connections to corresponding SL NEO File Recorder modules.
Name	Specify a displayed service name (e.g. REC1, REC2).
Host	Specify IP address of the server with a corresponding SL NEO File Recorder service launched.
Num	Specify the recording service sequence number.
New Server	Specify the recording service sequence number.
Delete Server	Deleting the selected connection.
Broadcast servers	Window for configuring parameters of client application connections to the corresponding SL NEO Program Player playback modules.
Name	Specify a displayed service name (e.g. CAST1, CAST2).
Host	Specify IP address of the server with SL NEO Program Player service launched.
Num	Specify the service sequence number.

Parameter	Description
Record servers	Configuring parameters of Air Manager connections to corresponding SL NEO File Recorder modules.
Passwd	Codeword for playlist management. SL NEO Program Player server module allows simultaneous work with a playlist from several client workplaces. In certain cases (e.g., a server connected to a corporate network) it might be undesirable for all computers to have the option of playlist management. To avoid unauthorized change of on-air playlists, Air Manager settings include codeword settings. In case of incorrect codeword entry, playlist will be available for a client workplace in the viewing mode only. All list playback and editing management functions will be blocked. Codeword is set in Program Channel settings: Administrator Control Panel→Manage→Program Outputs→Program_N→Automation→Control Code.
GrHost	Specifying IP address of a graphic station (in case of working with an external graphic station)
GrNum	Specifying program channel address of a graphic station (in case of working with an external graphic station)
GrPl	Specifying program channel address of a graphic station (in case of working with an external graphic station)
Storages	Specifying media databases used by the playlist to check clip availability (displaying NoMedia status in case of absence). You can find media database names in the Name column of the Storage tab. Media database names are case-sensitive and must be comma-separated (,).
New Server	Creating a new connection.
Delete Server	Deleting the selected connection
VTR servers	Configuring parameters of client application connections to the VTR management service.
Host	Specify IP address of the PC with launched device management service and configured VTR management
Num	Define the service number.
Description	Specify a random name for VTR (VTR1, VTR2, but not VTR).
New	Creating a new connection.
Delete	Deleting the selected connection.

### Settings Lock

Air Manager has options -lock-config and -unlock-config to show/hide the "Configure" item in the File menu Air Manager→File→Configure.... This option allows the administrator to exclude access of users to application settings.

#### **Option Activation**

To deactivate the Configure menu, launch Air Manager from the command line with a lock parameter:

airmgr --lock-config

#### **Option Deactivation**

To activate the Configure menu, launch Air Manager from the command line with an unlock parameter:

airmgr --unlock-config

#### Saving/Restoring Air Manager Settings

#### **Saving Configuration**

Параметр	Description
Ok	Applying changes
Cancel	Cancel applied changes
Save to file	Saving app settings to a configuration file $*$ . amc (Air Manager Configuration)
Load from file	Loading settings from a configuration file *.amc

#### **Saving Window Arrangement**

To save window arrangement to an \*.awp file (Air Manager Windows Position), you can use the menu command Air Manger→Window→Save Windows. To restore window arrangement, use the menu command Air Manger→Window→Load Windows.

#### **Saving Full Configuration**

To save the full current configuration of Air Manager, use the Windows registry editor and export a file with the following branch:

[HKEY\_CURRENT\_USER\Software\Skylark\AirManager]

To quickly transfer Air Manager configuration to another PC or to restore the previous configuration, just launch the corresponding \*.reg file to enter data to Windows registry.

Before the 2.0.10 version saving Air Manager configurations was implemented to

[HKEY\_LOCAL\_MACHINE\SOFTWARE\SkyLark\AirManager]

### Toolbar

🔳 AirManager		
File Edit Window	Help	
Cue		ото
	<ul> <li>coundowntomarker</li> </ul>	
Broadcast - C	✓ Cue	sktop
18:01:59	✓ Start Play/Rec	
N Group	✔ GoTo	1edia
1	Freeze	LIP_1
2	Marker	LP_1_
	✓ Next	
Secondary Events	✓ Stop	
1	✓ Reset	

You can manage displaying toolbar elements via menu available on a right-click in the delimiter area. Elements marked with a flag are displayed in the toolbar area.

Element	Appearance	Description
Cue	Cue	<ul> <li>Manual preparation of playlist lines to the start of execution. The system opens the corresponding media-file for reading, prepares it for playback (loads it to the memory and I/O board), and awaits the Play start command. At the end of Cue procedure the initial frame of prepared clip appears at the video output of corresponding server channel in a split second, in the freeze frame mode. Clip playback in the prepared line begins immediately after activating the Play command.</li> <li>Pressing Cue launches preparation of lines of the following types:</li> <li>The first playlist line with Wait status,</li> <li>The playlist line with Wait status positioned after already executed lines (Done status) or lines, whose execution is ignored by user (Skipped status).</li> <li>In the line sequence execution mode, the command for preparing the next line is launched automatically in the background mode to facilitate clean switch to the next clip (line).</li> </ul>
Start Play	Play	Launches execution of a line sequence in the active Broadcast window. Pressing Play without preliminary pressing Cue will automatically execute the Cue command and clip playback will start in a split second. If every line has the Sequence type of start, executing the rest of lines will happen automatically, with no operator participation.
Start Rec	Rec	Launches execution of line sequence in the active Record window. Pressing Rec without preliminary pressing Cue will automatically execute the Cue command and start clip recording. If every line has the Sequence type of start, executing the rest of lines will happen automatically.
GoTo	<b>Goto</b>	Emergency stop of executing the current event and switch to any other selected playlist line. Thus, after selecting the needed line, it is possible to jump up/down the list to several lines and launch immediate prompt execution of the needed event. The mode of command execution depends on settings: • For a playlist - File→Configure→Actions→Broadcast list actions→Jump. • For rec list - File→Configure→Actions→Rec list actions→Jump.
Freeze	Freeze	Suspends playback of the executable line in the active Broadcast window. When activating this mode, the Freeze button is lit light green and the picture on the corresponding video server output is "frozen". Pressing Freeze again continues playback.

Element	Appearance	Description
Marker	Marker	Sets a marker on the video. Function is active in the Record window. Function of manual indexing media materials within the recording process and forming a collection of key frames. The function simplifies searching editing points during further material trimming and marking. Every pressing the Marker button fixes the current time code value at the moment of recording and forms a key frame in the separate window "Key Frames". The set markers are displayed on the Shuttle line and in the File Monitor window during further clip editing. When selecting the needed marker or key frame in the Key Frames window, the File Monitor window marker moves to the corresponding TC position.
Next		The command provides emergency stop of execution of a current event in the active Broadcast window and switches to execution of the next in order playlist event (no status).
Stop	StopSeq	The command stops playback of a current line and the entire sequence in the active Broadcast window. Activating this mode stops execution of the current event with no transition to the next event. The stopped line gets the Wait status and is ready for repeated execution. Repeated playback of the stopped event occurs in case of further pressing Cue and then Play, or just Play. The version 2.0.154 allows setting confirmation for pressing this button when working with playlists. Configuring the option: AirManager→MeHю File→Configure→Actions→Confirmation on Stop Seq. If the option is on, pressing the button opens a dialogue window for confirmation:
Reset	Reset	The command stops playlist execution in the active Broadcast window, resets statuses of all lines and assigns them with Wait status. Further pressing the Play button will start playlist execution from the first line. The function works similarly for record lists. The version 2.0.154 allows setting confirmation for pressing this button when working with playlists. Configuring the option: AirManager→MeHю File→Configure→Actions→Confirmation on Reset. If the option is on, pressing the button opens a dialogue window for confirmation:   Playback will be stopped. Do you want to continue?  Yes No
Hard Start	HS Jumps	Activation/deactivation of the Hard Start mode when trimming events. When the HS Jumps button is on, the Hard Start mode works as usual, trimming clips to provide broadcast of the next Hard Start event on time. Deactivation of the HS Jumps button plays the previous clip to the end and displaces broadcast of the Hard Start event. Other than that, all Hard Start mode functions remain active even in case of deactivation of the HS Jumps button.
Hold	Hold	Holding the current event. Pressing the Hold button assigns the current event with the Hold status, infinitely holding it with no switch to the next event. The Hold function is useful for broadcasting events with set duration values from external lines in cases that require extending events duration before automatic switch to the next event (e.g., to extend duration of a news broadcast). Event Dur field will dynamically display the "extra time" value. Switching to the next event is implemented by Next or GoTo buttons.
Alarm Clip	Alarm Clip	The command for emergency switch to the "alarm" clip. Pressing the button inserts a line containing a clip with emergency sequence into the current playlist position and switches to this line. The line gets the Hold status, the app infinitely plays the "alarm" clip with no automatic switching to the next event. The Alarm Clip mode and alarm clip title must be configured beforehand. Switching to the next event is implemented by Next or GoTo buttons.
Prev Marker	Prev Marker	Moves the playback marker to the previous key frame in the playlist window. The function works for the executed (Play or Freeze) clip with marked key frames.
Next Marker	Next Marker	Moves the playback marker to the next key frame in the playlist window. The function works for the executed (Play or Freeze) clip with marked key frames.

Element	Appearance	Description
Preview	Preview	The function is available when managing the external matrix switch by the "switcher after server" scheme. The button allows to send a command to the switcher for external signal preview at the Preview output. The server must be pre-configured to manage a matrix switch. The switch preview port number is transferred from program channel settings. To implement switching, choose a LIVE-clip from the playlist and click Preview.
Edit	Append Delete	
AutoScroll	T Auto Scroll	Automatic scrolling of playlists. The function is activated automatically when launching a sequence and allows an operator to see the executable line, previous and next lines within the executing process. The function is turned off automatically when editing list lines directly within the executing process and must be manually re-activated at the end of editing. The number of lines displayed before and after the executable line is set in the Air Manager Configuration menu. The function works similarly for record channels.
Synchronous operations	CAST1 CAST2 CAST3	Buttons for synchronous management of playback channels (Broadcast windows). The number of buttons corresponds to the number of configured channels in Air Manager Configuration menu. In case of pressing several buttons CAST_1, CAST_N, commands for managing selected playback channels will be launched synchronously. If buttons for synchronous management of playback channels are inactive, the channel with the active Broadcast window will implement management. If one synchronous management button is active, the app will implement management for the corresponding playback channel. Activating Broadcast windows does not affect selection and change of the manageable channel. The function works similarly for record channels.
Lock file monitor	Lock file monitor/key frames	The function allows the user to lock in clip displaying in the File Monitor window without switching to viewing other clips during further activation of clips and playlist lines. After activating this function, the File Monitor window (and Key Frames window respectively) will display the clip selected in the Media Browser window or in the playlist line before its activation.
Origin timecodes		Displaying the original time code in the File Monitor window. The internal time code beginning from 00:00:00:00 is default while viewing files. The original time code may be added during clip import or during recording from an external line.
Date/Time	17:46:20 15.10.2015	The block for displaying current date and time. Displayed time may differ from server time, as the time value is taken from the client machine local clock. To fix the problem, configure time syncronization.
Record/play delay	Play delay N/A	
		Air Manager Message List displays events connected with automatic load of playlists from watch-folders in "reflection" and "upload once" modes.
Message List		Message List       Server         Acknowledge /       Message         16:58:00: "Z:\MAM\Playlists/playlist2.clf": play list successfuly loaded       CAST1         17:00:01: "Z:\MAM\Playlists/playlist3.clf": play list successfuly loaded       CAST1         17:01:00: "Z:\MAM\Playlists/playlist4.clf": play list successfuly loaded       CAST1         17:01:00: next load item: "Z:\MAM\Playlists/playlist4.clf"       CAST1
List items above	AutoHide 8	Allows setting fixed number of lines displayed above the executable line. The rest of lines will be hidden.
Элементы Marker Displays	CurClipPos 0:00:30.8	Adds configurable counters to the toolbar area.
Action1 и Action2	Action1	Generation of Item Action 1 and Item Action 2 for the current (selected) playlist element. The buttons can be activated by CTRL+1 and CTRL+2 respectively. Item Action 1 and Item Action 2 are program channel General events. They may be used, for instance, to send graphics into graphic layers for playout or to the second program channel for a preview. Added in 2.3.33 version.

### **Media Browser Window**

### **Clip Management Menu**

Right click context menu of Media Browser opens access to different MAM functions for working with clips.



Menu item	Description
Export	Opens the export dialog for a selected clip
Export Audio	Opens the audio track export dialog for a selected clip
Render	The option is identical to the export dialog for a selected clip

Menu item	Description
Attach Media	Opens a dialogue for connecting video materials to a selected asset.
Create Proxy	Creates a task for forming LRV profile for a selected clip. This option is useful when clip doesn't have an LRV proxy-copy, or if LRV profile is in the base, but the physical proxy-copy file is absent.
Delete Proxy	Opens a request window for deleting LRV proxy-copy of a selected clip.
Schedule Duration Check	Allows forced check of BRV copy duration and updates metadata parameters according to the actual file. Added in version 2.0.36 Подробнее.
Сору	Copying a clip in media database
Paste	Pasting a clip in media database When copying materials within one media database, a line (Copy N) will be added to MediaID.
Delete	Deletes a clip from the media database (metadata, BRV and LRV). Deletion of BRV from the archive folder is managed by the setting «Enable archive copy deletion» (see above)
Delete Hires	Opens a request window for deleting the BRV proxy-copy of a selected clip. This action is irreversible.
Delete At	base       Imaconnect     ?×       Ok     Cancel
Kill list	Opens a dialog for batch deletion of files from the media base. All MediaID must be listed line by line. The list may be uploaded from a file by the button Read file Media id's to delete: Hockey 5 Transportation HD Delete Segments Read file Ok Cancel

Menu item	Description
	Launches a dialog for creating a new asset where you should specify the format and planned duration. Duration will be adjusted after connecting the video material and asset.
New→Media Asset	New Media Asset     ? ×       Video Mode:     PAL - 720x576, 25.00, TFF       Audio Channels     2       Duration     00:10:00:00       Ok     Cancel
New→Note	Launches a dialog for creating a new news note with text input displayed at the VOD portal.
New→URL	Launches a dialog for creating a destination link to a network resource. Such resource, for example, could be an Internet image.
New→Clock	Launches a dialog of creating a combined clip for displaying TV clock, containing links to clips with clock background, arrows and audio.

Menu item	Description
New→Local stream	Creating a Live clip containing a link to a local source of media data stream. (e.g. stream name: Capture_1). This technology allows playout of the server input signal in a playlist. Viewing a live-clip in the File Monitor window will be available only during local playout at the server. New Local Stream Stream Video Mode: PAL - 720x576, 25.00, TFF Format Conversion: None Use AFD Audio Channels: 2 Ck Cancel
New→Graphics	Opens graphics editor for creating a new graphic composition.
New→Text	Launches a dialog for creating a text object containing text information for titles and referring to design templates (graphic compositions with parameterization).
Edit	Opens a dialog for editing object settings. For example, it will open the graphics editor for a graphic object.

Menu item	Description
	Linking a design template to a text object. Text information is unavailable for
	editing in this window.
	Text parameters
	Template: counter_don24
	Text Object1:
	Text Object3:
	Text Object5:
Apply Design	Speed: 1.00
	PIP Object1: logo_HD_150x150_sq 0
	PIP Object2:
	PIP Object3:
	PIP Object4:
	Duration Text
	Ok Cancel
	On and the Lange times and Tailor and the Chine Materials. Chart
	Opens the Locations And Triggers tab in the Clip Materials Sheet
	Media - Robots 2
	Clip User Orig HiRes Proxy Archive Locations And Triggers admintab admintab 2
	Inggers:
	ToPrepare Content Done 05-07-2017 18:26:48
	Publish Prepare Paled 17-10-2017 20:34:59 trigger Publish: create_shortcut: failed err =Operation would duplicate some id: folder = Publish/New*, link_id=1,
Show info	bite="Robots 2" New Trigger  sendtrigger   Done   22-01-2019 18:36:34
	Storages:
	MAM (medb://localhost:9900)
	window
	Opens Clip in the Clip Materials Sheet window. Tabs Clip and User
	Userallow editing data in user fields of the basic metadata set. The dialog may
	be used for batch editing of information in the pre-selected group of clips. The
	app will save values only for filled out fields, empty values will be ignored while
	saving.
	Meda - Zenit-Portu
	Clip User Orig HiRes Proxy Archive Locations And Triggers admintab admintab2
	ID Zent-Portu
	Video Mode 1920x1080 @ 25.00
Change fields	In Point 00:00:19:06
	OutPoint 00:00:21:16
	Duration 00:00:02:10
	Purge Time Empty
	Comment connent
	Layer 4
	Clip Name Empty
	Status Empty

Menu item	Description			
Menu item Edit Metadata	Description Opens the first available tab with fields of the extended metadata set (fields are loaded from the connected XMP metadata schema) Clip Materials Sheet. Clip Materials Sheet Meda - Arara Grande - Focus Clip Materials Grande - Focus Clip Mare Focus, Jonn 10,0000500 Fittle Ariana Grande - Focus, Jonn 10,0000500 Fittle Ariana Grande - Focus, Jonn 10,0000500 Fittle Focus, Jonn 10,0000500 Fittle Focus, Jonn 10,0000500 Fittle Focus, Jonn 10,0000500 Fittle Focus (Jonn 10,0000500 Fittle Focus, Jonn 10,0000500 Fittle Focus, Jonn 10,0000500 Fittle Focus (Jonn 10,000			

Menu item	Description				
	Opens a dialog for statuses (certificates) editing Clip Materials Sheet. Names and the number of statuses may be configured in metadata schema (see above). Status condition flag may have three states:				
	• ON (black check mark) - status is set,				
	• OFF (no check mark) - status is removed, •				
Edit Status	неопределенное состояние (grey check mark) - appears in case of group setting of statuses, when status condition of selected clips differs. Statuses with indefinite condition are ignored, allowing for saving differences while group editing.				
	Media Browser - MAM/18_11_16				
	Ive_18.11.16_18.10.48.09				
	Tecrec 1				
	Прямая трансляция     Прямая трансляция				
	Prepare Пряной зфир				
	Image: https://www.amage.com/image.com				
Edit Segments	Opens segment editor.				
Archive	Launches the archiving process for a clip BRV profile. The archiving process is managed in the "Archive Queue" window				
Restore	Launches the process of restoration for a BRV profile. The restoring process is managed in the "Archive Queue" window				
Flush HiRes	Launches deleting a BRV profile from the folder with HiRes originals				
Archive and Flush	The group task combines archiving and further deletion of BRV				
Cancel Archiving Operation	Cancels the archiving operation				

Menu item	Description				
Find Segments	The dialog displays all clip segments marked with key frames of Segment Start and Segment End types. CityViews2 HD Find Segments ?? CityViews2 HD 00:00:00 00:00:28:06 2 CityViews2 HD 00:01:04:16 00:01:12:09 3 CityViews2 HD 00:01:43:06 00:00:33:19 00:02:14:09 Rescan Export Close				
Reset triggers	Resets the status of processing of one or several triggers for a selected group of clips.				
Web Profiles→Create Profiles	Creating the needed Web Profiles for a selected group of clips. The Recreate if exists option forces reencoding the selected profile if it's already been created before. Create Web Profile(s) ? Recreate if exists Choose Profiles: WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 Cancel				
Web Profiles→Delete Profiles	Deleting the needed Web Profiles for a selected group of clips  Delete Web Profiles  Choose Profiles:  WP1 WP2 WP3 WP4 WP5 WP5 WP6 WP7 WP7 WP8 Cancel				

### Deleting the needed Web Profiles for a selected group of clips

Media Browser extensively uses possibilities of clip dragging:

Destination	Condition	Result		
To the Windows folder	Left-click	Copying a clip BRV copy to the folder. The function is available if you configure "Client Path" in the "Storage Parameters" tab and run the app as the current Windows user		
To the Windows folder	Right-click	Copying a clip LRV copy to the folder. The function is available, if you configure "Client Path" in the tab "Volumes", and run the app as the current Windows user.		
Into the media database folder different from the current one.	Any mouse button	Moving clip to a specified media database folder		
Into the media database folder different from the current one.	Any mouse button+Ctrl	CCreating a clip copy (Shot Clip) in the destination folder.		
To the current media database folder	Any mouse button	Starting from version 2.4.x this function is no longer supported. In previous versions: creating a clip copy (Shot Clip) in the current media database folder.		
Into the media database folder different from the current one.	Any mouse button+Alt	Creating Shortcut This operation requires basic MAM licensing.		

## **File Monitor Window**

The File Monitor window is functioning independently from recording and playback channels of SL NEO media servers. File Monitor serves for viewing clips selected in the Media Browser window or from playlist and rec-list lines directly on a screen of a client PC monitor, via the Air Manager user interface. Other than that, the File Monitor window implements marking of a selected clip: re-designation of IN and OUT points, cutting playlist lines, export of marked fragments to separate media files. Operating in File Monitor is independent from work of recording and playback channels of SL NEO servers and does not affect their performance.



#### **Element Description**

Name of clip opened in the File Monitor viewing window		
The Use Proxy check box includes an opportunity of viewing proxy copies of materials in the File Monitor window (duplicates the Use Lowres Proxy setting in software configuration) - a proxy-copy will be displayed if it exists. Using low-res copies for viewing does not overload server arrays and allows many client PCs connected to SL NEO servers to work simultaneously in Ethernet network. If viewing proxy copies is activated, but a proxy copy is absent, the app will display a high res copy. If viewing proxy copies is turned off, but a high res copy is absent, the app will display a message 'VIDEO OFFLINE'		
ch 1 12.02.11 10.02.4%.22		
IN:00:00:00:00 UT:00:00:37:13		
The current cursor position from the IN mark. Click on this field to edit the value. Field format: HH:MM:SS:FF (or HH:MM:SS;FF for NTSC format), where: HH - hours, MM - minutes, SS - seconds, FF - frames		
Shows a list of key frames, allowing for a swift transition to the needed key frame. More details		

Element	Description				
	Opens a dialogue for adding a new key frame				
5	Monitor - [Media Browser]         chi 17.07.11 10.02.46.22 (Copy 1)         Use Proxy         1       00:00:00:00 Segments Seg1         3       00:00:11:00 Segments Seg1         4       00:00:12:01 Segments Seg2         5       00:00:20:01 Segment End Seg2         10:00:00:00:00:00:00:00:00:00:00:00:00:0				
	The current cursor position from the material start. Click on this field to adit the value. Field				
6	format: HH:MM:SS:FF (or HH:MM:SS;FF for NTSC format), where: HH - hours, MM - minutes, SS - seconds, FF - frames.				
7	The video viewing window. Displaying the message 'VIDEO OFFLINE' means the material is unavailable. The Client Path option may be configured, but the path is unavailable from this workplace.				
8	Timeline				
9	IN point marker				
10	Key frame mark				
11	While viewing clips, the File Monitor window displays the cursor of a current position colored gray (pressing R moves cursor to the current record position, pressing Y moves it to the current playback position). When using File Monitor to view a clip from an executed playlist, the clip will have a green cursor showing the current playback point.				
12	Frame-by-frame reverse playback button.				
13	Frame-by-frame playback button.				
14	The Stop button - playback stop				
15	The Play Button - playback launch				
16	KThe button launches cyclic playback of a fragment set by IN-OUT points.				
17	The button launches playback of a fragment set by IN-OUT points.				
18	OUT point marker				
19	Smooth scrolling bar				
	<ul> <li>Audio level indicator (DBFS scale). Every bar has a switch at the bottom that implements channel output to an audio playback device at the client PC:</li> <li>L - output of the selected audio channel to the left channel</li> </ul>				
20	<ul> <li>R - output of the selected audio channel to the right channel</li> </ul>				
	<ul> <li>A - output of the selected audio channel to both channels</li> <li>•</li> </ul>				
	<b>X</b> - output of the selected audio channel is inactive				

Element	Description		
21	Volume control for viewing at the playback device (e.g., a client PC sound card).		
22	The button for turning off sound output.		
23	IN mark value. Click on this field to edit the value. Field format: HH:MM:SS:FF (or HH:MM:SS;FF for NTSC format), where: HH - hours, MM - minutes, SS - seconds, FF - frames		
24	OUT mark value. Click on this field to edit the value. Field format: HH:MM:SS:FF (or HH:MM:SS;FF for NTSC format), where: HH - hours, MM - minutes, SS - seconds, FF - frames		
25	Button for zooming out timeline		
26	Timeline zooming controller		
27	Button for zooming in timeline		
28	Go to IN point		
29	Go to OUT point		
30	Button for setting the IN point in the current cursor position		
31	Button for setting the OUT point in the current cursor position		
32	Button of applying changes of IN and OUT point positions		
33	Trimming clip at the cursor When pressed, the OUT point is set at the current cursor position in the initial CLIP_NAME clip. Also, the app will create a new «CLIP_NAME - Shot 1» clip with an IN point at the cursor position.		
34	Button for creating a shot-clip. Creates a copy of the original CLIP_NAME clip with set IN a OUT values. The new clip name is «CLIP_NAME - Shot 1».		
35	Opens a window for export of a clip fragment (from IN to OUT point).		
36	Clip duration value. Click on this field to edit the value. Field format: HH:MM:SS:FF (or HH:MM:SS;FF for NTSC format), where: HH - hours, MM - minutes, SS - seconds, FF - frames.		

## **Key Frames and Segment Editor Windows**

Working with key frames and segments

## **Playlist Columns**

Column Name	Description			
Group	Specifying a name for a group of clips. Groups may be used, for instance, to create a block of commercials. Статус события. С версии 2.2.10 Done/Skipped lines display the difference between actual duration of events and the values set in a playlist. Example: D -00:00:01:12 - the event with a "Done" status is one second and twelve frames shorter than the planned one.			
Status				
	The launch type for playlist elements. The following launch types are currently supported:			
	<b>Manual</b> - launch is implemented manually or via GPI.			
Start	<b>HardTime</b> - launch is implemented automatically at a certain moment, manual launch is possible.			
	<b>Auto</b> - launch is implemented automatically at the end of the previous element, manual launch is possible.			

Column Name	Description				
Start Time	The time of start value is calculated automatically for events with Auto type and may be set manually for events with Manual type. For events with Hard Start type, the option sets the time of on-air broadcasting.				
Media	Clip MedialD, its unique identifier in a media base				
Event Dur	Event duration (clip duration considering the Loops value)				
Player	Defines the playout source in the main playlist (server or matrix input) and the graphics playout layer for secondary events				
Туре	The string type custom field for extra automation. For example, you can use it to set an event type (commercial/movie/program) according to which the app will change graphic design of a TV-channel				
Title	The displayed event title: when dragging clip from the media base, duplicates the field Media.				
Comment	Event comment				
Date	Event playback date.				
In Point	IN point Sets the time code for the start of a played back fragment of the clip. Allows trimming clip in a playlist by setting its start point				
Out Point	OUT point Sets the time code for the end of a played back fragment of the clip. Allows trimming clip in a playlist by setting its final point.				
Stop Time	The planned time of the event end.				
Таре	The Tape field from a media base, it used to contain the name of tape from which the clip was digitized				
Loops	Sets the number of loops, which may be an integer or "inf" for infinite events.				
Clip Dur	Clip duration from IN to OUT point, not considering loops (Loops column).				
Cur Point	The current played back clip position.				
Mixer	Type of transition to the next line: • Cut - Direct splice transition • V Mix - Smooth transition with fade out. • X Mix - Dissolve transition.				
	<b>Overlay</b> - Transition via the animated clip with transparency (DVE).				
MixSpeed	selected from the list: Slow = 1 sec, Mid = 0.5 sec, Fast = 0.25 sec				
MixWipe	For Overlay type of transition, the option sets a graphic clip used for transition. For V-Mix and X-Mix types, the option sets a wipe-map used for transition.				
Keyer1, Keyer2,Keyer3,Keyer4	Columns for custom automation - for instance, launch of actions depending on the set value. Possible values: On, Off, No Change (default). The function could be used for showing/hiding logo or graphic layers.				
Key1Speed, Key2Speed, Key3Speed, Key4Speed	Columns for custom automation - for example, setting speed of showing/hiding graphic layers.				
GPI 1, GPI 2, GPI 3, GPI 4, GPI 5, GPI 6, GPI 7, GPI 8	Custom automation - for instance, launch of actions depending on a set value. Possible values: On, Off, No Change (default)				
GPI V 1, GPI V 2, GPI V 3, GPI V 4, GPI V 5, GPI V 6, GPI V 7, GPI V 8	Custom automation - for instance, launch of actions depending on a set value. May contain random text value. Air Manager The columns automatically receive content from standard metadata fields (see Comparison of Transferred Data).				

Column Name	Description			
Orig TC	g TC The option sets positioning IN and OUT points relatively to a selected segment (requires preliminary marking of clips via key points Keyfram Segment Start and Keyframe Segment End).			
LeadOut	The field sets the value (in frames) of extra playback time of a line after its end. The value serves for setting playback time of a graphic hiding animation (lower third collapsing and disappearing after pressing Stop).			
Opaque	The column allows switching the layer transparency mode. By default, graphic layers are transparent - if a frame has alpha channel, video is mixing with previous layers (see information on audio mixing in the Aud Transp column description). • On - opaqueness is on, • Off - layer is transparent, •			
	No Change - layer is transparent (default).			
ID	Program ID from the media planning system. The playlist receives it in the process of being formed by a traffic system (e.g. BroadView).			
Aud Transp	Managing audio mixing between this layer event and the result of audio overlaying in all previous layers (layers overlay one by one, starting from the first one). If the value is Auto, mixing is implemented with no changes. If you set a numeric value, it will define the volume level for the result of overlaying previous layers, when mixing it with the current layer (e.g., a 10% value sets the 10% of max volume level for previous layers).			
HS State	The status of Hard Start execution. Active - HardStart will be executed. InPast - time in the past set for HardStart (the event will not be executed).			
MT State	The Media Transfer State column shows the status of processing the asset in Transfer Manager. This function requires the playlist service to be specified in the Playlists tab of Transfer Manager. Example of possible messages: • Queued - queued for processing • Copying NN% - copying in process • Outdated - file already exists			
Purge	Sets the date of clip deletion from the media base after the line playback			
End Mode	rent end type: <b>brmal</b> - normal event end, transition to processing the next event. <b>bld</b> - after the end, the event switches to the Hold status, waiting for a hishing command from the operator. This scheme is normally used when anning "live" events. <b>roup</b> - at the end of the element, Air Manager implements automatic			
	allows looping a group of playlist elements. Added in 2.2.46 version			
Sched Time	Displays the original planned time of start set in a playlist. Added in 2.2.10 version.			
OverRun	Displays the difference between the original time of start set in a playlist and actual (planned) time of start that comes from the process of playlist executing. Added in $2.2.10$ version			

## Playlist and Rec-list Format

- Air Manager Playlist Structure
- Air Manager Rec-list Structure

## **Playlist Zonation Function**

Playlist zones delimit areas of responsibility of programme and on-air services.

The option is activated in program channel settings: Administrator Control Panel→Manage→Program Outputs→Program\_N→Automation→Parameters→Auto zones for layers.

Parameter	Value
None	Playlist zonation is turned off
Main	The function is activated for the main playlist
Main & 1st Graphics	The function is activated for the main playlist and first graphic playlist



#### The scheme showing zone positioning on the timeline

Broadcast - CAST1 - [C:/Users/admin/Desktop/PLLIST_Строка_Др_возможности_(03-окт-2015).clf] * - RUNNING 💶 🗖 🗙						
18:40	18:40:48 DblClick to edit					
Ν	Group	Title	Media	Status	Comment	Player 🔺
1		CLIP_1	CLIP_1	Done		MAIN
2	2	CLIP_1_DV	CLIP_1_DV	Play		MAIN
3		CLIP_1_DV	CLIP_1_DV			Auto 🔜
4	3	CLIP_11	CLIP_11			Auto
5		CLIP_10	CLIP_10			Auto
6		CLIP_1_DV	CLIP_1_DV			Auto
7	4	CLIP_1	CLIP_1			Auto
8		CLIP_10_DV	CLIP_10_DV			Auto
9		CLIP_1_DV	CLIP_1_DV			Auto
10		CLIP_10	CLIP_10			Auto
11		CLIP_10_DV	CLIP_10_DV			Auto
12	5	CLIP_11	CLIP_11			Auto
13		CLIP_11_DV	CLIP_11_DV			Auto
14		CLIP_1_DV	CLIP_1_DV			Auto
15		CLIP_10	CLIP_10			Auto 💌
Secondary Events						
						) ·
Play	1.00		CLIP_1_DV		- 00:00:45:00	/(00:01:15:00)/00:02:00:00
NLK	C 🔽 Loop	Sel: 00:00:00:00	Tot: 00:36:17:19 Done: 0	0:0 🔽 Replace	Lay 1 Lay 2 Lay 3 Lay 4 Lay 5	Lay 6 Lay 7 Lay 8 Logo

Displaying zones in the Air Manager playlist.

1. Playlist area with already played back materials

- 2. The played back clip
- 3. «Execution zone» area
- 4. «Operator zone» area
- 5. «Traffic zone» area

#### **Execution zone**

#### 5. «Traffic zone» area



The size of this area is specified in program channel settings: Administrator Control Panel→Manage→Program Outputs→Program\_N→Automation→Parameters→Execution zone (в формате часы, минуты, секунды).

### **Operator Zone (On-air Service Area of Responsibility)**

The playlist area that can be modified by the on-air operator. Changing playlist in this area from the media planning system is not available. By default this area contains none elements (is equal zero)



Changing zone positioning on the timeline over time (comparing to the scheme A), if the on-air operator has not expanded the "Operator zone" area.

В	roadcast - C/	AST1 - [C:/Users/a	dmin/Desktop/PLLIS	Т_Строка_Др_возмож		.df] * - RUNNING 📃 🗆 🗙
18:46	:34			DblClick to edit		
N	Group	Title	Media	Status	Comment	Player 🔺
1		CLIP_1	CLIP_1	Done		MAIN
2		CLIP_1_DV	CLIP_1_DV	Done		MAIN
3	•	CLIP_1_DV	CLIP_1_DV	Done		MAIN
4		CLIP_11	CLIP_11	Done		MAIN
5		CLIP 10	CLIP 10	Done		MAIN
6	2	CLIP_1_DV	CLIP_1_DV	Play		MAIN
7		CLIP_1	CLIP_1			Auto
8	4	CLIP_1_DV	CLIP_1_DV			Auto
9		CLIP_10	CLIP_10			Auto
10		CLIP_10_DV	CLIP_10_DV			Auto
11		CLIP_11	CLIP_11			Auto
12	5	CLIP_11_DV	CLIP_11_DV			Auto
13		CLIP_1_DV	CLIP_1_DV			Auto
14		CLIP_10	CLIP_10			Auto 🚽
▶ Sec	ondary Events	1				
┛						F
Play		$\land$	CLIP_1_DV		- 00:00:18:06	;/(00:01:41:19)/00:02:00:00
NLK	C 🔽 Loop	Sel: 00:02:00:00 To	ot: 00:32:30:19 Done: 0	0:0: Replace Lay 1	Lay 2 Lay 3 Lay 4 Lay 5	Lay 6 Lay 7 Lay 8 Logo

Example of displaying a playlist with absent "Operator zone".

The operator may request extending the "Operator zone" by reducing the "Traffic zone" area. The media planning system no longer controls the area passed to "Operator zone" management. «Operator zone» extending is implemented in two steps:

- In the "Traffic zone" area, select a playlist element to which the "Operator zone" area will be expanded.
- Right click and choose «Expand Operator Zone».

### Traffic zone (Program Service Area of Responsibility

The area, where data is edited by the system of media planning. Any attempts to change the playlist in this area will give the message: «Traffic zone can't be modified».



While using this function, the Message List window may display informational messages connected with its work.

Message	Value
"1.clf": playlist successfully loaded	Playlist has been successfully loaded or updated in case of modifying.
"1.clf": schedule tail successfully updated	Changes at the end of playlist has been successfully loaded
"1.clf": schedule items changed while block is being executed	Changes at the end of playlist has been successfully loaded.

Message	Value
"1.clf": schedule start time changed while block is being executed	An attempt to change Playlist upload time when the playlist is already being executed. Playlist is not updated.

## **Function of Checking MAM Certificates**

### Configuring

At the first Air Manager launch it is necessary to implement several settings: AirManager→Меню File→Configure→Вкладка Storage

The basic settings are listed in the description of Media Connect:

- Connect to the media base and choose a metadata schema
- Specify metadata schema fields that will be displayed in Media Browser
- Set the profile of material displayed in the File Monitor window

#### Set limitations of statuses for playlist clips

Air Manager allows permanent monitoring statuses of clips against the set criteria. File→Configure…→Вкладка Actions→Media Certificates…

🖺 airmgr	<u>?</u> ×		
Required Certs	Incompatible Certs		
C Reviewed	Reviewed		
☐ Segmented	Segmented		
Trimmed	Trimmed		
Annotated	Annotated		
Approved	Approved		
Ok	Cancel		

Group	Description
Required Certs	Required Certificates Certificates are marked with checkboxes. Playlist materials must have all statuses checked in this field.
Incompatible Certs	Incompatible Certificates

B	roadca	st - CAST1 - [	C:/Users/a	dmin/Downloads/PLL	IST_Граф_дин_банн
13:50	):46				
N	Group	Title	Media	Status	Player
1	-	RR0008-15	RR0008-15		Auto
2	57	Transportatio	n Transporta	tion CertMismatch	Auto
3	~	RR0098-15	RR0098-15	F	Auto
- 4		RR0088-15	RR0088-15	;	Auto

If the material does not correspond the Media Certificates configuration criteria, the Status playlist column will show the message "CertMismatch" and the line will become red.

Important! The material anyhow will go on-air, status check has informational character.

## **Color setting options for Player**

Starting from version 2.0.154 there is an option to set colors to playlist lines depending on values in the Player column.

Configuring the option in Air Manager: Меню File→Configure→Actions→Player colors



Option	Description
Name	Player name
Color	The set line color selected from the color palette
Add	Opens a dialogue for adding a new value
Remove	Removes the selected value
	Opens a dialog for editing the selected value
Edit	Player name: LINE2 Color: Ok Cancel

Result of the function work:

airmgr	? ×	В	roadcast - CAS	5T1 - RUNNING	@ 25.00 fps					
		17:34	k:07			DblCli	ck to edit			
Name		N	Group	Status	Player	Tape	Date	In Point	Out Point	Start 🔺
Name Color	- I I	1		Skipped	Auto			00:00:00:00	00:01:08:04	Auto
LINE2		2		Skipped	Auto			00:00:00:00	00:01:08:04	Auto
		3		экірреа	LINE2			00:00:00:00	00:00:00:00	Auto
EXT4 Remove		4		Play	MAIN		07.06.2016	00:00:00:00	00:03:21:17	Auto
					Auto		07.06.2016	00:00:00:00	00:00:10:00	Auto
Edit		6			VTR		07.06.2016	00:00:00:00	00:00:00:00	Auto
	_	7								-
		▶ Sec	ondary Events							
		•								•
		Play	: David (	Guetta - Dangero	us (Official video	o - radio edit) ft S	am Martin 🛛 –	00:01:04:21/	(00:02:16:21)/	00:03:21:17
Ok Cance		N/A	C 🔽 Loop S	el: 00:00:00:00	Tot: 00:05:48	Replace La	y 1 Lay 2 Lay 3	3 Lay 4 Lay 5	Lay 6 Lay 7 La	y 8 Logo

The option will be useful for on-air operators able to value the convenience of highlighting external lines in playlists.

## **Marker Displays Function**

In the verision 2.0.58 the function Marker Counters has been added: displaying counters with realtime information about playout. The 2.3 line allows viewing video streams from virtual services, so the function has been renamed to Marker Displays.

The function allows displaying:

- "On-air" indicator
- Current position in a clip
- Server time
- The time left till the key frame
- etc.

Configuring the function: Меню Window→Marker Displays→Add Counter…

🖪 Marker Displa	y Configuration	<u>? ×</u>
Title:	Program_1	
Туре	Countdown to Marker	•
Program IP:	localhost	
Program Num:	1	*
Layer:	1	*
Marker offset:	1	*
Marker track:		•
Condition:		
Seconds only		
Bold font		
FG Color:		
BG Color:		
	Apply Canc	el

 Option
 Description

 Title
 Random counter name Starting from version 2.4.26 TitleBar is displayed with center alignment

#### 2025/01/16 20:48

45/56

Option	Description
	•
	IPOut Status - Server IP output status monitoring Added in 2.4.73 version. IP Output IP Output IP Output IP Output IP Output
	MAIN OFFLINE/ MAIN ONLINE/ MAIN ONLINE/
	BACKUP OFFLINE BACKUP STANDBY BACKUP OFFLINE
	Countdown to Selected - countdown of time left till the selected playlist line goes on-air.
	Program_1
	00:00:56.04
	Pacific Selected Duration - chows duration of selected events in a results
	Program_1
	00:01:31:24
	<ul> <li>Countdown to Condition - countdown of time till the playlist line with set values in certain columns. Added in 2.4.23.</li> <li>•</li> </ul>
	<ul> <li>Current Rec Remaining - time left till the end of the current record task (executable rec-list line). Added in 2.4.23.</li> </ul>
	Current Rec TC - shows the current recorder time code. Added in 2.4.23.
	Current Rec Position - shows duration of the recorded material. Added in 2.4.23.  •
	Record/Play Delay - displays latency between the recorded and played back points of the video. The value is calculated as of the record time code, so for proper functioning you must choose the
	and code source time for the recorder. Added in 2.4.2.3.
	Program_1 Program_1 Program_1
	MEDIA 00:00:36
	Current Graphics - shows the current played back clip name in the main playlist, graphic layer or logo layer. The layer is set by Layer parameter, for example: Layer=1 - main playlist. Background color shows the current state of connection to the playlist service. Added in
	2.2.11 Way TB Dashura 4 May TB Dashura 4
	Soccer Stats
	Current Clip Remaining - time left till the end of a current clip in format: HH: MM: SS, Added in 2.1.22
	Program_1
	00:00:19
	•
	Countdown to Line - time left till a playlist line goes on-air. The line is selected by dragging it to the counter. This allows, for instance, to control the time left till the start of a live broadcast. Added in 2.0.154.
	Contro Trie
	00:02:34
туре	•
	Recording Indicator recorder indicator. Displays the current recorder status. Red - recording is on, grey - recording is stopped. Added in 2.0.154.
	• Playlist Remaining - time left till the end of playlist
	Pogen_1
	00:00:19
	•
	On Air Indicator - on-air indicator. Displays the current status of a program channel. Red means live broadcast, grey - the playlist is stopped.
	Current Clip Position - the current position of playback in a clip.
	00:00:02.60
	•
	Wall-Clock Time - the server time.
	םע - רב - בי
	• Countdown to Marker - the time left until the next key frame.
	00:01:22.48
	•
	Service Monitor - opens the window for viewing a video stream with audio from SL NEO services (Capture, Program Channel, Recorder etc.). Above the viewing window, there is a selection dialog box with the list of services available by the specified IP address. Added in 2.3
	Incoanchand_1
	Left Status:

Last update: 2023/05/08 15:59

manual:airmanager

Outlos	Recorded to a					
Option	Description Accessibility of antians depende on the souther two					
Output ID	Accessionity of options depends of the control forming the main ID stream.					
Output IP	IP address of the server forming the main IP stream					
Output Service	Name of the Playout service forming the main iP stream. Example: Playout_1.					
Backup IP	IP address of the server forming the backup IP stream					
Backup Service	Name of the Playout service forming the backup IP stream. Example: Playout_2.					
Recorder IP	Name of the Playout service forming the backup IP stream. Example: Playout_2					
Recorder Num	Recorder service number					
Program IP	P address of the server with a program channel - localhost or 127.0.0.1, if Air Manager is launched at the server					
Program Num	The number of the program channel service					
Layer	The layer number in a selected program channel. 1 - main playlist, 2 - first graphic playlist (CAST_LAY2) etc.					
Marker offset	The option sets marker offset when calculating the Countdown to Marker value. 1- next one, 2- every other, etc					
Condition	In a condition for seracting a line in playlist for the Countdown to Condition counter. Setting is similar to the action editor and Secondary Event Generations.					
Seconds only	Turns off displaying frames or milliseconds in a counter. Program_1 00:01:31:24					
Bold font	Sets "bold" font for displayed text 00:00:19 $00:01:03$					
FG Color	Sets the font color for displayed text Added in 2.4.23.					

Created counters are displayed in the Air Manager toolbar. The counters may be dragged and resized.



Right-click the counter to open a menu:



Parameter Value				
Configure Opens the counter setting window				
Destroy counter Deletes the counter				
Close	Hides the counter To open the counter again, right click on a toolbar divider or use the menu Window→Marker Displays→Add Counter			

## "Toggle Scrubbing Controls" Function

In the version 2.0.57 we have added a new possibility for interactive production that allows users to quickly set a point for playback start of a playlist clip.

B	Broadcast - CAST1 - STOPPED @ 25.00 fps									
13:12	2:48				DblClick	to edit				
N	Group	Title	Media	State	us Player	Tape	Date	Loops	In Point	-
1		RR0008-15	3R0008	3-15	Auto			1	00:00:00:00	
2	STC	RR0098-15	RR0096	3-15	Auto	51	npr	7-11	00:00:00:00	
3		RR0088-15	RR0088	3-15	Auto	<u> </u>	<b>U</b> 11	1	00:00:00:00	
4		RR0089-15	RR.0085	9-15	Auto			1	00:00:00:00	
5			C	TOE	DEL				QTO.	
► Sec	condary Event	5								
4										•
Wait	1 :			RR0008-15				::-/(:-	-:://00:02:0	00:00
N/A	C 🔽 Loop	Sel: 00:02:00:00	Tot: 00:05:15:00	Done: 00:00:	00:06 Dentry	crubbing Controls	wy 2 Lay 3 L	ay 4 Lay 5 Lay 6	Lay 7 Lay 8 Log	

Right click the progress-bar line in the lower section of a playlist window displays the «Toggle Scrubbing Controls» menu, opening access to controls.

A	irManager									
File	Edit Windov	r Help								
	Cue	Play	<b>Бото</b>		<b>Freeze</b>	<b>Sto</b>	pSeq	Reset	0	) H
E	iroadcast	AST1 - RUNNING Ø	25.00 fps			0				١×
13:1	8:33				DblClick to ea	dit_				
Ν	Group	Title	Media	Status	Player	Tape	Date	Loops	In Point	
1		RR0008-15	RR0008-15	Freezed	MAIN		16.09.2015	1	00:00:00:00	
2		RR0098-15	RR0098-15		Auto		16.09.2015	1	00:00:00:00	
3		RR0088-15	RR0088-15		Auto		16.09.2015	1	00:00:00:00	
4		RR0089-15	RR0089-15		Auto		16.09.2015	1	00:00:00:00	
) Se	condary Event	s .	0				-			
4					_		3		) G	
Free	zed:		RR0008	3-15	0.		- 00:00:3	3:08/(00:01	26:17)/00:02:0	00:00
										mm
N/A	C 🔽 Loop	Sel: 00:02:00:00 T	ot: 00:05:15:00 Done: 0	0:00:33:08	Left:   Repla	ce Lay 1 L	ay 2 Lay 3 Lay 4	Lay 5 Lay 6 L	ay 7 Lay 8 Logr	

Description of used controls:

- 1. **Cursor** displays the current playback position. It is positioned at the end of the progress bar. Dragging the cursor changes the CurPoint value (clip playback will start from this point).
- 2. **Jog-line** dragging the line allows changing the CurPoint value more precisely.
- 3. **CurPoint** the value of a current playback point.
- 4. **EventDur** the value of time left till the end of the current playlist element.
- 5. **General Duration** of playback of the current playlist element including loops.
- 6. Cue Button prepares a clip to start.
- 7. Freeze Button works as a pause. Stops the clip playback. Repeated pressing resumes playou.

Dragging the cursor and Jog-line is possible, when a clip has the status Cued, Playing or Paused.

## **Function of Backup Recording**

Before the version 2.0.71 the Backup column was used for backup recording of rec-list events, activating this function for a certain rec-list line

Starting from version 2.0.71 work of this function has been significantly modified.

#### **Configuring Backup**

Configuring this option is implemented in the server control panel: Administrator Control Panel→Manage→Recorders→Recorder\_N→General.

Recorder 1		
Service Enabled		Name: Recorder_1( <u>Change</u> )
General Destination Pr	ofiles Time table captures	
Frame rate: VTR address: VTR number: VTR TC offset: Backup recorder address: Backup recorder channel: Filename Prefix: Filename Middle: Filename Suffix:	25.00 ▼ None ▼ 0 ▼ 192.168.100.22 1 ▼	Router output pin: none  Router Layers: (Add) Name
Filename Mask:		

Option	Description
Backup recorder address	IP address of the server with launched backup recording service
Backup recorder channel	The sequence number of a server recording service displayed in the title of a corresponding recording service

Modifying this section reloads the recording service and stops the current tasks. At the end of configuring, save the changes by clicking "Apply Changes".

### **Backup Launch**

F	Record - REC1	@ 25.00 fps					
N	Group	Status	Title	Source	Duration	Tape	Di
1			news 2015.11.	LIVE	00:31:00:00		
2	SIO	PPF					
3							<u> </u>
4							
┛							
SYI	C	00:31	:00:00 Do REC	Dst: dvsd	TC: NONE	▼::	: //
_	<ul> <li>Connect Bag</li> </ul>	KUD					
F	Disconnect E	ackup <sup>i</sup> ps					
F	Disconnect E	Backup ps	Title	Source	Duration	Таре	
F N 1	Disconnect E Group	sup Backup Status	Title news_2015.11.	Source	Duration 00:31:00:00	Таре	
F N 1 2	Disconnect E	Status	Title news_2015.11.	Source LIVE	Duration 00:31:00:00	Tape	
F N 1 2 3	Group	Status	Title news_2015.11.	Source LIVE	Duration 00:31:00:00	Tape	
F N 1 2 3 4	Group	Status	Title news_2015.11.	Source LIVE	Duration 00:31:00:00	Tape S	
N 1 2 3 4	Group	Status	Title news_2015.11.	Source LIVE	Duration 00:31:00:00	Tape	

Backup function management is implemented through a menu in the lower left corner of the rec-list window. The Rec-list backup column is left for backward compatibility and is not in use anymore.

Option	Value
Connect Backup	The option includes backup recording and activates the connection to a slave recording service
Disconnect Backup	The option turns off backup recording and disconnects from the slave recording service

Synchronization of slave rec-list events is implemented in the moment of changing the master recorder of a rec-list. If you manually add a task to the slave recorder playlist with activated function of synchronization, this task will automatically get the Skipped status

### Indication of Recorders Synchronization Condition

Indication	Status Description
FRN	FRN (Backup Not Connected) - connection to the backup recording service is not implemented
N/A	<b>N/A (Not available)</b> - recorder status is unknown. Such indicator condition means the current recorder doesn't have a set Backup Recorder. Perhaps, this recorder is slave (backup) itself.
SYN	SYN (Backup Connected) - backup recording is implemented for this recorder. Backup recording service is connected
SYN	<b>SYN (Master Present)</b> - the recorder implements backup for a master recording service. The main recorder has been connected. The service with such status is slave, receiving data from the main recorder

## **Function of Metadata Automatic Transfer to Playlist**

Starting from version 2.0.77, we have provided an option for automatic data transfer from user fields of the basic metadata set to executable playlist columns. The function works both for automated load

of playlist from a media planning system and for manual adding elements to the playlist

### Configuring

The function "Active Folders" is activated in program channel settings: Administrator Control Panel→Manage→Program Outputs→Program\_N→Storages→Edit→Active folders..., where N is the number of program channel.

Edit Storage								
Name: Media_1 Type: SL Media Storage Storage Address: localhost Storage Number: 1 Login User: Login password:								
Block clip deletion Active folders								
Ok Cancel								

Specify a folder (Active folder) and choose metadata fields for transfer in settings of a media base connected to the program channel.

Selected metadata is automatically transferred to playlists only for those clips or (или Shortcut), that are located in a corresponding folder of the media base. Clips identification is implemented by the MediaID field value.

Edit	Active Folders			
Acti	ve Folders: (Add)			_
Х	Folder Action			
	Add Folder			
	Folder:	promo		-
•	Adjust Duration	Is □ Comment Fiel	d Type Field Title Field	
Ok	User Field I	User Field 2	User Field 3 User Field 4	
_	User Field 5	User Field 6	User Field 7 User Field 8	
	🗆 Player Field			
	Ok Cancel			

Folder	The parameter contains the name of analyzed folder in the media base root (e.g. promo). The system automatically analyzes clips in all embedded folders. To analyze a certain embedded folder, specify its path (e.g.: promo/adv/2015).
List of metadata fields	Choosing values for transfer to the playlist. See the table below.

#### **Comparison of Transferred Data**

E	Broadcast - CAST1 - [Z:/MAM/PLAYLIST5/testlist2.clf] * - STOPPED @ 25.00 fps																	
15:3	5:39:17 DblClick to edit																	
Ν	Start	Status	Media	Title	Clip Dur	Event Dur	Comment	Player	Type	GPI V 1	GPI V 2	GPI V 3	GPI V 4	GPI V 5	GPI V 6	GPI V 7	GPI V 8	Loops
1	Auto		CityViews2_HD	Городские улицы 2	00:02:17:00	00:02:17:00	Заметка	MAIN	promo	gpi1	gpi2	gpi3	gpi4	gpi5	gpi6	gpi7	gpi8	1
2	STI	nP	PHIL		-			PAR					4				222	PH
3						T	T	T	T	T	T	r	1					
4									4		d i				6	6		
5				N STA	PDE		Y	Ŷ	Y	Y	Y	<b>7</b> 3	25	<b>y</b>	تر ہ	تر ا		
6											$\sim$	$\sim$	-/					
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Med	lia folder			Media	Clip Name	Duration	Comment	Player T	vpe Us	er1 Use	r2 User3	3 User4	User5	User6 Us	ser7 User	8 S/Nam	e	
÷	Media0																	
	H-1 Byon	ашие		CityViews2_HD	ородские улицы	2 00:02:17:00	Заметка	MAIN pr	omo gpi	i1 gpi2	gpi3	gpi4	gpi5 g	jpi6 gpi	i7 gpi8			
	T. DAUG	лщис																

N⁰	Option in "Active folders" settings	Value in the Media Browser window	Executable playlist column
1	Title Field	Clip Name	Title
2	Adjust Durations	Duration	Clip Dur, Event Dur (Automatic setting of duration. The value Loops is set as equal 1, In=00:00:00:00, Out=Dur)
3	Comment Field	Comment	Comment
4	Player Field	Player	Player
5	Type Field	Туре	Туре
6	User Field 1	User 1	GPI V 1
7	User Field 2	User 2	GPI V 2
8	User Field 3	User 3	GPI V 3
9	User Field 4	User 4	GPI V 4
10	User Field 5	User 5	GPI V 5
11	User Field 6	User 6	GPI V 6
12	User Field 7	User 7	GPI V 7
13	User Field 8	User 8	GPI V 8

Changing user metadata fields of a clip in media base will update the transferred values for all playlist parts in real-time.

### Work Features

Changing the Duration value of an executable clip in media base will stop playlist playback, if the new Duration value is lower than the current playback position.

If Shortcut of a playlist clip with already transferred metadata has been deleted from the analyzed folder, repeated adding a clip with the same MediaID to the playlist will still copy metadata for the current clip. The data will be copied from the playlist clip fields.

#### **Editing Metadata**

Selective editing of user fields in the basic metadata set is implemented in Media Browser by clicking on the needed field in «View as short list» or «View as long list» displaying modes.

Group editing is implemented using the "Change fields..." editing window.

## Work with ANC Data (SCTE-104 Messages, Teletext)

Information on ANC data presence for a selected clip is available in the dialog: Air Manager→Media Browser→Меню правой кнопки→Show info…→HiRes→ANC Data или Air Manager→окно Clip Materisls Sheet→HiRes→ANC Data.

ip User (	Drig HiRes Proxy Archive Locations And Tr
Path:	\$(video_path)/media/mr6-NID513-19721/mr6.avi
Width:	720
Height:	480
Codec:	h264
Aspect:	4x3, Full Frame
Color:	
ANC Data:	CC CEA-708, AFD
Rate:	48000
Bps:	16
Channels:	6

Possible values:

- NONE no data,
- VANC DBG the file was recorded with the activated Debug VBI function
- TTX-B-625 teletext data is present,
- SCTE-104 SCTE messages,
- CC CEA-608/CEA-708 closed captions,
- AFD AFD code
- etc

#### **Marking Frames in Monitor Window**

The option Show ANCs: Air Manager→Меню File→Configure→Preview→Show ANCs activates displaying ANC data while viewing in the Monitor window.



Data presence is defined individually for every frame selected at a point of time, displaying the corresponding message over the image.





Possible values:

- TTX-B-625 presence of teletext data,
- SCTE-104 SCTE messages,
- CEA-608/CEA-708 closed captions,
- **AFD: X** presence of the AFD code with the number X.

### Search of Marks in Monitor Window

Starting from version 2.1.22 the app has the **Find next SCTE-104 frame**, function available by the right click on a file name in the Monitor window. The function launches search of SCTE-104 packets, starting from the current position in a clip.



If the SCTE-104 packet is found, its content will be displayed in a pop-up window



Recording clip in the Debug VBI mode makes search of marks unavailable.

## **Graphics Editor**

#### **Graphics Editor**

## **Hotkeys Combinations**

The information is actual starting from version c 2.3.87.

Combination	Action
Ctrl+F	Show File Monitor
Ctrl+T	VTR Control window activation
P, when the monitor is active	Apply
A, when the monitor is active	Add
C, when the monitor is active	Cut

Combination	Action
+	Zoom In
-	Zoom Out
	set In
<0>	set Out
<d></d>	clear In
<f></f>	clear Out
<g></g>	clear In and Out
<q></q>	goto In
<w></w>	goto Out
R, when the monitor is active	While viewing the clip being recorded in the File Monitor window, it moves the viewing cursor to the current recording position
Y, when the monitor is active	While viewing the clip being played back in the File Monitor window, moves the viewing cursor to the current playback position
<enter></enter>	play selection
<up></up>	goto begining of the clip
<down></down>	goto the end of the clip
<space></space>	toggle play/stop
<ctrl>+<up></up></ctrl>	goto prev marker
<ctrl>+<down></down></ctrl>	goto next marker
Ctrl + N	Insert clip to the N playlist
Alt + N	Добавить клип в конец плейлиста N
Для кнопок верхнего мен	Ю
Ctrl+Shift + 1-4	REC window activation
Shift+F1	Pretake
Shift+F2	Rec
Shift+F4	Marker
Shift+F5	Skip
Shift+F6	Stop
Shift+F7	Restart
Ctrl+Alt + 1-4	Playout window activation
Shift+F1	Pretake
Shift+F2	Play
Shift+F3	Jump
Shift+F4	Pause
Shift+F5	Skip
Shift+F6	Stop
Shift+F7	Restart
Shift+F8	Toggle Preempt
Shift+F9	Hold
Shift+F10	Alarm Clip
Ctrl+L	Auto Scroll
Ctrl+Shift+Space	Clear the group
Ctrl+Space	Edit parameters
Ctrl+H	Set the HardStart type of start
Ctrl+U	Set the Auto type of start

Combination	Action	
In Media Browser		
Ctrl + N	Insert clip to the N playlist, where N is the playlist number	
Alt + N	Insert clip to the end of N playlist, where N is the playlist number	
<left></left>	-1 frame	
Shift+ <left></left>	-5 frames	
Ctrl+ <left></left>	-10 frames	
Ctrl+Alt+ <left></left>	-1 sec	
<pgup></pgup>	-3 sec	
Shift+ <pgup></pgup>	-10 sec	
Ctrl+ <pgup></pgup>	-30 sec	
Ctrl+Alt+ <pgup></pgup>	-1 min	
<right></right>	+1 frame	
Shift+ <right></right>	+5 frames	
Ctrl+ <right></right>	+10 frames	
Ctrl+Alt+ <right></right>	+1 sec	
<pgdn></pgdn>	+3 sec	
Shift+ <pgdn></pgdn>	+10 sec	
Ctrl+ <pgdn></pgdn>	+30 sec	
Ctrl+Alt+ <pgdn></pgdn>	+1 min	
Ctrl+<,>	Left faster	
Ctrl+<.>	Right faster	

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