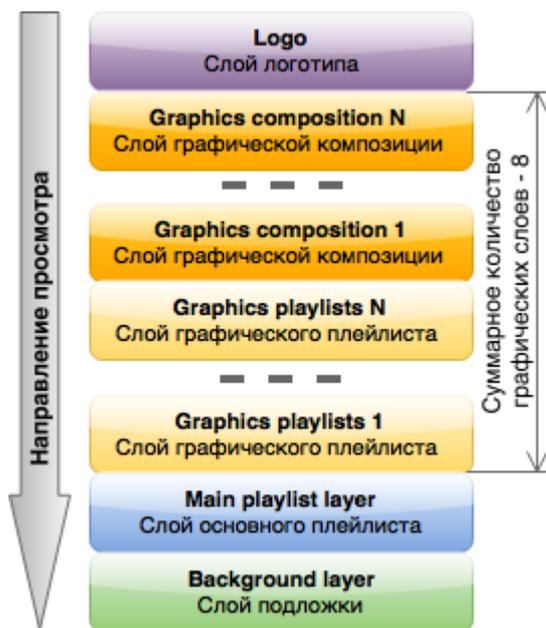


Program Channel

Program channel is a service responsible for playback of clips and graphic compositions by playlists, generating events, receiving and executing actions. Manual control of a program channel is implemented through playlists in [AirManager](#). Automated control is possible through the [Actions Mechanism](#).

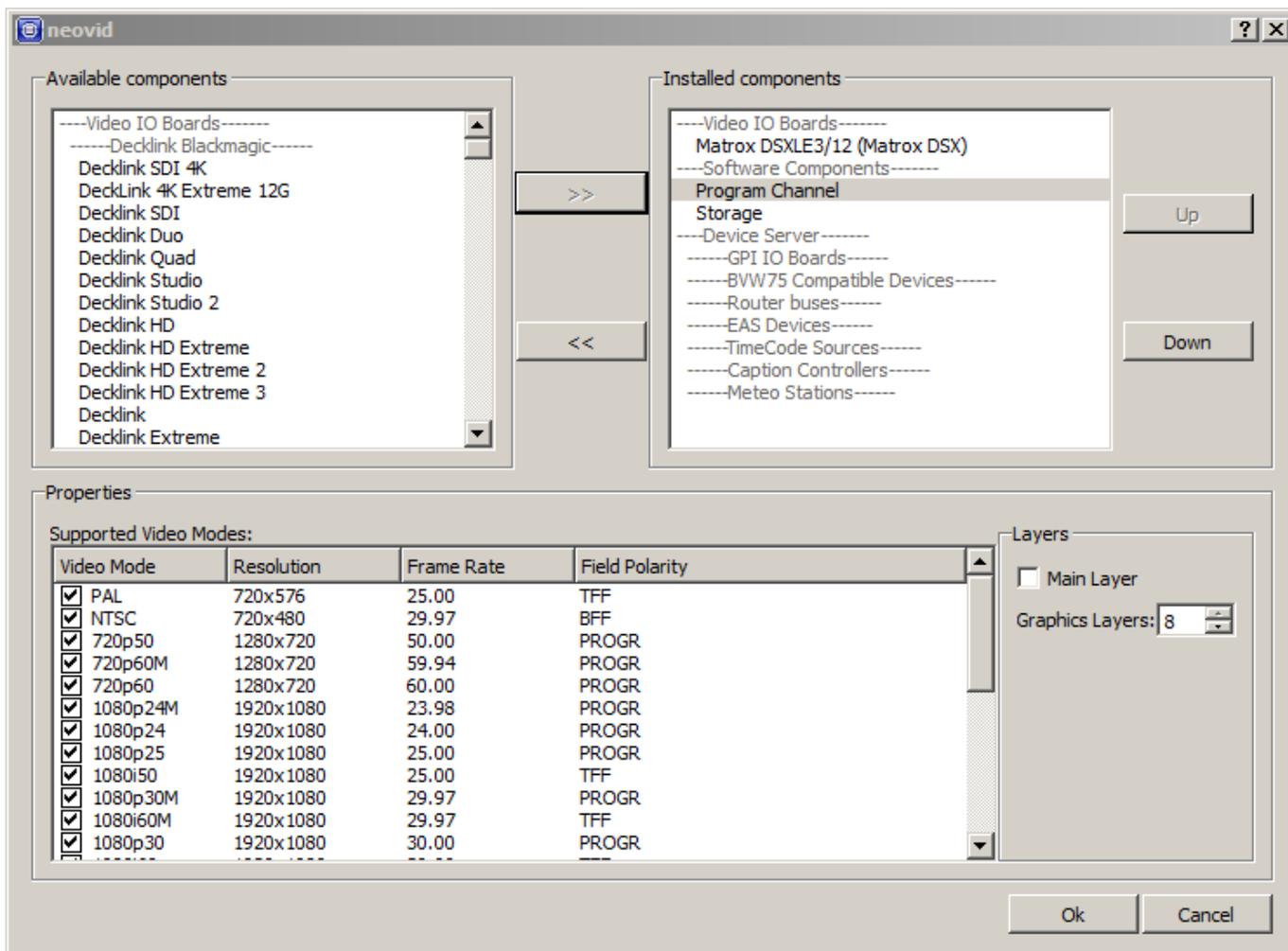
Organizing Graphic Layers



Layer	Description
Logo clip	Being the top layer, it is used for channel logo overlaying. The layer is transparent and can be managed by program channel actions.
Graphics compositions	Graphic clips/compositions: being displayed, these layers are “under logo” but above graphic playlists layers and actually are similar to logo files. Control of displaying them is similar to logo layer management. Four slots for graphic compositions are configured by default. These layers are transparent; their audio is mixed with lower layers.
Graphics playlists	Playlists for sequences of graphic clips. Several graphic playlists can be played out simultaneously, as well as several graphic compositions. When displaying, playlists are “under compositions”. Every layer has its own playlist (Broadcast LAY1...8 window in Air Manager); the LAY1 playlist/layer is the lower one. Every LAY1...8 playlist implements playback of its own sequence of graphic clips placed in the server database. Similarly to a full screen playlist, appearance and structure of graphic playlists are identical to Broadcast playlists/windows for full screen payout. Four graphic playlists are configured by default. These layers are transparent; their audio is mixed with lower layers.
Main layer	Layer of the program channel main playlist: opaque (clip transparency is replaced by a black background) and completely overlays the Background layer sound.
Background	The layer is opaque (clip transparency is replaced by a black background) and is used to output a federal channel “on-pass” during local inserts. Selecting a source for the layer is similar to the logo layer.

Settings in Configure Server Components

Settings are available when the server is shut down: Configure Server Components→Installed Components→Software Components→Program Channel.



Setting	Description
Main Layer	The checkbox has influence on the main layer behaviour. If it is unchecked, the first layer becomes similar to graphic layers: no screensavers at the program channel launch (turning on server), output of the first/last frame at cue/stop is off, the first layer becomes transparent by default (as in the Fill+Key mode). The option is active by default. Changing this option status will turn off the program channel: all of its settings will be deleted.
Graphics Layers	Setting the number of graphic layers to be used by the program channel. The parameter may possess the value from 0 to 8.
Supported Video Modes	Activation of graphic modes available in the program channel.

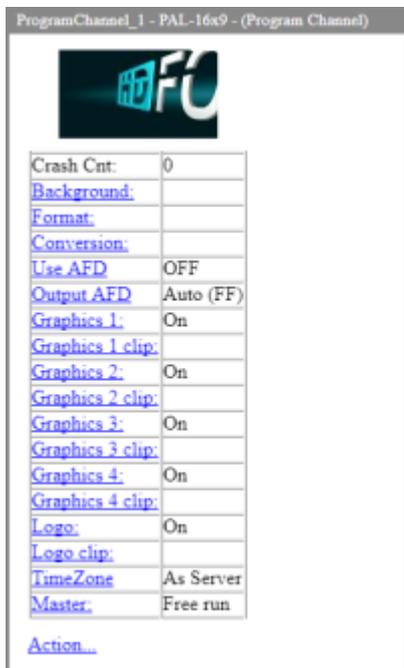
Status Menu Settings

Program channel settings are located in Status and Manage sections (described below).

Configurable parameters are located at the tab Administrator Control

Panel→Status→Program_N.

 All changes in this section are applied instantaneously with no service reloads.



Parameter	Description
Crash Cnt	
Background	Selecting a source for the layer: <ul style="list-style-type: none"> FILE - selecting a file placed in the server folder C:\Program Files\SL NEO Media Platform\run\files (displaying a list of files from this folder). URL - selecting a file by the network path at the local or network disk, or a logo file from the SL NEO database (the corresponding database must be specified in Program Channel settings). LIVE - receiving video with or without an alpha-channel from the external/internal signal source. NONE - stream source for the window not defined.
Format	Setting the program channel output format: 4:3, 16:9 or Default (transferred from program channel VideoMode settings)
Conversion	
Use AFD	The option is described in the article Active Format Description (AFD) .
Output AFD	The option is described in the article Active Format Description (AFD) .
Graphics 1(2,3,4)	The section displays the current status of the graphic composition layer (On/Off). Click to open a menu for layer management ((Hide composition/Show composition).
Graphics 1(2,3,4) clip	Selecting a source for the graphic composition layer. Similarly to logo, there are four options available: LIVE, FILE, URL, NONE. Graphic clips/compositions are actually similar to logo files. Control of displaying these files is similar to logo layer management.

Parameter	Description
Logo	The section displays the current logo status (On/Off). Click to open the menu for managing the logo layer (Hide logo/Show logo).
Logo clip	<p>Selecting a source for the logo layer:</p> <ul style="list-style-type: none"> • FILE - selecting a file placed in the server folder C:\Program Files\SL NEO Media Platform\run\files (displaying a list of files from this folder). • URL - selecting a file by the network path at the local or network disk, or a logo file from the SL NEO database (the corresponding database must be specified in Program Channel settings). • LIVE - receiving video with or without an alpha-channel from the external/internal signal source. • NONE - stream source for the layer not defined.
TimeZone	<p>Setting the on-air playlist time shift relative to UTC.</p> <ul style="list-style-type: none"> • As Server- use the server time zone (playlist time will coincide with the server clock time) • UTC XX - setting the playlist time zone shift relative to UTC+0: used for convenience of working with playlist at channels with satellite broadcasting, allowing for displaying the target region time in the playlist.
Master	<p>Status of the mode of program channel synchronization with another channel. The option is displayed when configuring the parameter: Manage→Program Outputs→Program_N→Main/Backup Sync→Sync method. Possible variants:</p> <ul style="list-style-type: none"> • Free run - no synchronization • One time synchronization • Continious synchronization (only for Sync method=Online Continious) • Offline synchronization (only Sync method=Online Continious)
Action...	Executing the program channel action in the manual mode.

General Settings

Parameters are located at the tab Administrator Control Panel→Manage→Program Outputs→Program_N.



Changes in this section will lead to reloading of the configurable program channel service and stop broadcasting. At the end of configuring, save implemented changes by pressing Apply Changes.

Playout Parameters

General

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type: Internal

Playout Parameters
Storages
Automation
Actions
Main/Backup Sync
BXF Connector

General
Closed Captions
Open Captions

Video mode: PAL-16x9

Audio channels: 2

Stop frame timeout (sec): 10

Live Closed Captions

Opaque graph layer:

1 2 3 4 5 6 7 8

Force NoMedia clips transparent

Insertion postroll (frm):

M:4 1:4 2:4 3:4 4:4 5:4 6:4 7:4 8:4

Keep graphics when paused Start playback on restart

TimeCode Output: None

SCTE-104 PassThrough Packet filtering...

Teletext PassThrough

SCTE104 Generation

SCTE104 Repeat count: 1

SCTE104 Repeat delay (frm): 1

Multicamera: Disable

Parameter	Description
Video mode	Select the video mode for the program channel output. The list of available video modes is set in the "Configure Server Components..." dialogue
Audio channels	The number of audio channels output by the program channel
Stop frame timeout (sec)	Setting the time value in seconds, during which the last frame will stay on after playback stops. This option works only if there is nothing else under the layer: if there was an overlaying insert and it stopped, the lower layer would be displayed.
Live Closed Captions	
Opaque graph layer (1-8)	Activates graphic layer opaqueness and turns off sound for lower layers (see the order of organizing graphic layers above)
Force NoMedia clips transparent	Transparency for clips absent in the media database
Insertion postroll (frm)	Setting the delay value in frames for the main layer and 8 graphic ones (from 0 to 300 frames). This option always triggers, so if the insert triggering accuracy is a few frames, insertion postroll may compensate it. For example, configure the insert to appear 2 frames earlier not to skip a frame in the beginning, and the insertion postroll value equal 4 so to not skip a frame in the end.
Keep graphics when paused	Hiding paused graphic layers is not necessary. Added in version 2.3.60 .
Start playback on restart	Automatic playback restart from the point of stop during software reboot. Added in version 2.3.74 .

Parameter	Description
TimeCode Output	Send the time code in the output stream. <ul style="list-style-type: none">• None - no time code output• PassThrough - time code value is taken from the source signal in Background• Clip - output of the clip time code• DayTime - current time output
SCTE-104 PassThrough	Sending messages on-pass from Background
Teletext PassThrough	Sending teletext on-pass from Background
SCTE-104 Generation	Activating generation of 104 messages. The feature requires additional licensing . Make sure your license provides this feature. Activating the option without an appropriate license will switch the server to the demo-mode.
SCTE-104 Repeat count	Repeat the message output for N times
SCTE-104 Repeat delay (frm)	Delay between outputs
Multicamera	Activating the multi-cam mode described in the article Multi-Cam Clips

Closed Captions

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))
1 Storage(s) added. Automation type: Internal ▼

[Playout Parameters](#) [Storages](#) [Automation](#) [Actions](#) [Main/Backup Sync](#) [BXF Connector](#)

[General](#) [Closed Captions](#) [Open Captions](#)

Render Captions

External Captions Dir:

Output Options

Output Protocol	CEA-708 with 608 Compatibility Bits ▼
Number Channels	1 ▼
Insert Captions:	Always ▼
Display Mode	Scroll ▼
Number of Lines	3 ▼
Number of Columns	Auto ▼
708 Anchor Position	Center ▼
708 Vertical Position	95 ▼
708 Horizontal Position	0 ▼

Output Service 1

Input Language	Any ▼
Input Stream #	None ▼

Parameter	Description
Render Captions	Activate generation of closed captions. The feature requires additional licensing . Make sure your license provides this feature. Activating the option without an appropriate license will switch the server to the demo-mode.

Open Captions

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type: Internal CPU Cluster: Auto

[Playout Parameters](#)
[Storages](#)
[Automation](#)
[Actions](#)
[Main/Backup Sync](#)
[BXF Connector](#)

[General](#)
[Closed Captions](#)
[Open Captions](#)

Display Open Captions

Roll up buffer: 4

Font face: Default Font size: 7.5

Font color: Default Font opacity: 100

Bold Italic

Background color: Default Backgroup opacity: 100

Outline: Default Outline width: 3.00

H Alignment: Left V Alignment: Bottom

Horizontal adjustment: 0 Vertical adjustment: 0

Line spacing %: 100 Character spacing %: 100

Display Mode: Scroll

Caption streams: ([Add](#))

X	Language	Index
(Del Edit)	rus	-1
(Del Edit)	eng	-1

Parameter	Description
Display Open Captions	
Roll up buffer	Fix Me!
Font face	Fix Me!
Font size	Fix Me!
Font color	Fix Me!
Font opacity	Fix Me!

Parameter	Description
Background color	 Fix Me!
Background opacity	 Fix Me!
Outline	 Fix Me!
H Alignment	 Fix Me!
V Alignment	 Fix Me!
Vertical adjustment	 Fix Me!
Line spacing %	 Fix Me!
Character spacing %	 Fix Me!
Source stream Lang	 Fix Me!
Source stream Idx	 Fix Me!

Storages

A program channel plays clips only from media databases added at this page.



Important! The [AirManager](#) client app can have different media databases connected, however, adding a clip from the media database not connected with the program channel to the playlist will lead to a black burst at the output.

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

2 Storage(s) added. Automation type: Internal ▼

Playout Parameters
Storages
Automation
Actions
Main/Backup Sync
BXF Connector

Program Playout Storages: ([Add](#))

X	Name	Address	User
Del Edit	MAM	medb://localhost:9900	
Del Edit	local	medb://localhost:9902	

Parameter	Description
Add Action	Adding a media database.

Parameter	Description
Del	Deleting a selected media database from program channel settings.
Edit	Editing a connected media database.

Edit Storage

Name:

Type:

Storage Address:

Storage Number:

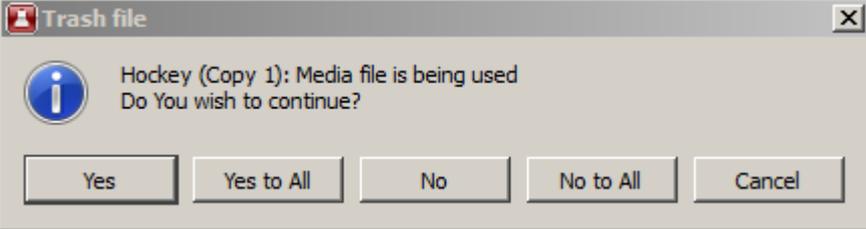
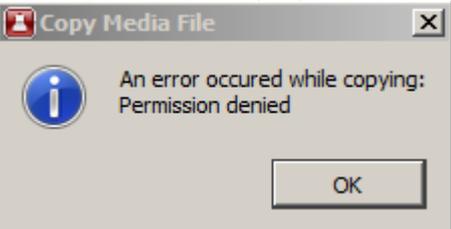
Login User:

Login password:

Block clip deletion

[Active folders...](#)

Parameter	Value
Name	Random name
Type	Type of the connected storage: File Folder, SL Media Storage
Active folders	Configuring Automatic Metadata Transfer to Playlist

Parameter	Value
Block clip deletion	<p>Block deleting clips in case, if a clip is right after the current point of execution in the playlist (or any place with active loop). If the option is on, automation will block deleting the asset from the database. An attempt to delete the asset will lead to an error and message about blocking deletion of the clip. A blocked clip may be deleted by users with USER_PRIV_FILE_BLOCK_OVERRIDE rights (Important! In case of local connection to the media database, deletion is possible under any user, if the option "Enable local admin privileges" is activated in Storage service settings). Added in version 2.2.17.</p> <p>If the deleted group contains blocked clips, manual deletion will lead to displaying the message (:</p>  <ul style="list-style-type: none"> • Yes - delete the first blocked clip • Yes to All - delete all blocked clips • No - skip one clip • No to All - skip all blocked clips and delete the rest of clips • Cancel - cancel deletion <p>If access rights to deletions are absent, processing files will stop and the following message will be displayed:</p> 
For Type=SL Media Storage	
Storage Address	IP-address of the server with the configured media database. The default value (empty) is "localhost".
Storage number	The database service sequence number at the server with the specified IP address (number from 1 to 4).
Login User	Username for access to the media database. The default value (empty) is "guest".
Login password	User password to access the database.
For Type=File Folder	
Disk Path	Local or network path to the Windows folder

VDCP Mode Settings

Parameters are located at the tab Administrator Control Panel→Manage→Program Outputs→Program_N→Automation type (if Automation type = Vdcp).

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type:

[Playout Parameters](#) [Storages](#) [Vdcp](#)

VdcpSrv parameters

Port Type:

Port #:

Max transfer rate per thread(x):

The VDCP mode allows using the program channel along with the third-party system for broadcast automation. In this mode, internal automation of Skylark playlist control is turned off, giving its functions to the external system (playlists, logging etc). The option of managing graphic layers through API is saved.

VDCP

Settings for connecting the automation server.

Parameter	Description
Port Type	Network - management is implemented via Ethernet, COM1-COM16 - via a COM port.
Port #	Network port used for input connections from a VDCP automation server.
Max transfer rate per thread(x)	 Fix Me!

Internal Mode Settings

Parameters are located at the tab Administrator Control Panel→Manage→Program Outputs→Program_N→Automation type (if Automation type = Internal).

Automation

Parameters

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type: Internal ▼

Playout Parameters
Storages
Automation
Actions
Main/Backup Sync
BXF Connector

Parameters
Playlists
AsRun logs
Routing Switchers
Master Control Mixers
External Lines

Cue Time (sec):	5 ▼	Program output pin:	None ▼
Auto Cue delay (sec):	Infinite ▼	Preview output pin:	None ▼
Graphics playlists:	4 ▼	Main input pin:	None ▼
Graphics compositions:	4 ▼	<input type="checkbox"/> Autoreset mixers	<input type="checkbox"/> Mixer CUTS
		Output delay:	0 ▼
		Control code:	<input style="width: 100%;" type="text"/>
		Alarm clip:	colorbars.png ...
		Auto zones for layers:	None ▼
		Execution zone:	0 ▼ : 0 ▼ : 0 ▼

Parameter	Description
Cue Time (sec)	Time of preparation of the next playlist item that is in the auto mode.
Auto Cue Delay (sec)	Setting time in seconds: infinite - queueing is not implemented. The option works if the playlist is stopped (Cue shows the first clip frame as a freeze frame, playback launches by pressing Play), for clips in the manual mode.
Graphics playlists	Setting the available number of graphic playlists. The total number of graphic playlists and compositions is eight; four graphic playlists are configured by default.
Graphics compositions	Setting the available number of graphic playlists. The total number of graphic playlists and compositions is eight; four slots for graphic compositions are configured by default.
Program output pin	This option may be activated for when using an external matrix switcher after the server. In the field, specify the number of a switcher output used for reading the program signal of a broadcasting channel. This feature requires additional licensing.
Preview output pin	This option may be activated for when using an external matrix switcher after the server. In the field, specify the number of a switcher output to read the preview signal off. The preview signal is auxiliary: the system automatically switches the external line signal to this output 10 seconds before actual on-air switching. This gives the operator an opportunity of prompt managing a particular input signal at the monitor with no manual preset. This feature requires additional licensing.
Main input pin	This option may be activated for when using an external matrix switcher after the server. In the field, select the switcher input connected (by the scheme) to the server playout channel working for this program channel. This feature requires additional licensing.
Autoreset mixers	When the option is active, playlist elements with the "none" type of transition are switched to the "cut" type; if inactive - to the previous transition type.
Mixer CUTS	The option turns on mandatory using of a mixer for cut-transitions. In classical configurations, switching the external lines, server and VTRs requires a "router+mixer" pair. SL NEO software is optimized for "cut" transitions: automation switches the router directly, meanwhile the mixer does nothing.
Output delay	The parameter defines the switching moment latency, in frames.

Parameter	Description
Control code	Setting a password, later entered in Air Manager settings for playlist editing. An empty value in this field turns off the option. Information on configuring the client application. The password is specified in Air Manager connection settings: File→Configure→Services→Broadcast servers→Passwd. Without a password, the playlist will be available only for viewing.
Alarm clip	Select a file to be used as an alarm clip. The clip file must be located in the folder C:\Program Files (x86)\SL NEO Media Platform\run\files. The clip is launched by pressing the Alarm Clip button in AirManager.
Auto zones for layers	Activates the Playlist Zoning function: <ul style="list-style-type: none"> • None - Playlist zoning turned off • Main - Function is active for the main playlist • Main & 1st Graphics - Function is active for the main playlist and first graphic playlist
Execution zone	Setting the = execution zone size: the playlist area that cannot be modified by the on-air operator.

Playlists

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type:

Playout Parameters
Storages
Automation
Actions
Main/Backup Sync
BXF Connector

Parameters
Playlists
AsRun logs
Routing Switchers
Master Control Mixers
External Lines

Playlist watch folder: Export Playlist:

Watch folder type: Output file:

Playlist timecode: Day start: : :

Playlist file mask: Max duration: : :

Parameter	Description
Playlist watch folder	A path to the folder storing playlists for automatic loading
Watch folder type	Automatic loading mode: <ul style="list-style-type: none"> • Upload once - uploads a playlist once at the moment specified in the Playlist upload time field. The uploaded playlist is added to the end of the program channel current playlist. • Clear/Upload once - clears the program channel current playlist and uploads the playlist file. • Reflection - tracks changes in the playlist file and updates the program channel playlist according to them.

Parameter	Description
Playlist timecode	
Playlist file mask	Setting a name mask for the playlist file which allows uploading only those playlists that fit the mask. For example, *-MyChannel.clf: uploading files with the MyChannel suffix in the file name.
Export playlist, Output file, Day start, Max durations	Settings are described in the article Configuring Automatic Export of Playlists

AsRun logs

AsRun logs are formed during playlist playback, containing information about clips on-air. You may configure uploading logs into 2 separate places.

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type:

Playout Parameters
Storages
Automation
Actions
Main/Backup Sync
BXF Connector

Parameters
Playlists
AsRun logs
Routing Switchers
Master Control Mixers
External Lines

Report folder: <input type="text"/>	Report folder: <input type="text"/>
Report format: <input type="text" value="Internal"/>	Report format: <input type="text" value="Internal"/>
Report cut time: <input type="text" value="0"/> : <input type="text" value="0"/> : <input type="text" value="0"/>	Report cut time: <input type="text" value="0"/> : <input type="text" value="0"/> : <input type="text" value="0"/>
Report Graphics Layer:	
	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8

Skip NO_MEDIA items

Skip GRAPH NO_MEDIA items

Parameter	Description
Report folder	Specifying a folder for storing logs. By default, AsRun Logs are recorded to the folder C:\Program Files (x86)\SL NEO Media Platform\run\program\log\ and sorted by channels.
Report format	Setting the format of AsRun log, see the description below.
Report cut time	Setting the time for cutting the log file (start recording to a new file) in the HH:MM:SS format.
Report Graphics Layer	Logging information on playback of graphic playlists (from 1 to 8).
Skip NO_MEDIA items	Skip logging information on clips with the NOMEDIA status.
Skip GRAPH NO_MEDIA items	Skip logging secondary events with no graphic files found. Added in 2.2.33 version.
Custom template path	Path to the folder with a template for log generation in the Custom AsRun format. Added in 2.4.163 version.

Log Formats (Report format Option)

	<p>A log file is a text file with every string corresponding a certain event or message. Fields of each string are tab separated.</p> <p>Example of a log file string: 2013-08-17 23:07:18.41 START 251289 00:00:20:00 MAIN NoChange NoChange NoChange 251289</p> <p>Event format: DATE TIME EVENT TITLE DURATION PLAYER TAPE ITEM_ID COMMENT KEY1 KEY2 KEY3 KEY4 URI MEDIA_STATUS GPI_V1 GPI_V2 GPI_V3 GPI_V4 GPI_V5 GPI_V6 GPI_V7 GPI_V8 ONAIR GROUP</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>1</td><td>DATE</td><td>date in the format YYYY-MM-DD</td></tr> <tr><td>2</td><td>TIME</td><td>time in the format HH:MM:SS.microseconds</td></tr> <tr><td>3</td><td>EVENT</td><td>Type of event: START, ERROR</td></tr> <tr><td>4</td><td>TITLE</td><td>"Title" field value from the playlist</td></tr> <tr><td>5</td><td>DURATION</td><td>"Duration" field value from the playlist</td></tr> <tr><td>6</td><td>PLAYER</td><td>The layer in which the clip was played: MAIN or 2...8 (graphic layers)</td></tr> <tr><td>7</td><td>TAPE</td><td>"Tape_name" field value from the playlist</td></tr> <tr><td>8</td><td>ITEM_ID</td><td>The material id in a traffic/media-planning system. This value is formed by the traffic system at the moment of playlist generation.</td></tr> <tr><td>9</td><td>COMMENT</td><td>"Comment" field value from the playlist</td></tr> <tr><td>10</td><td>KEY1</td><td>"Key1" field value from the playlist</td></tr> <tr><td>11</td><td>KEY2</td><td>"Key2" field value from the playlist</td></tr> <tr><td>12</td><td>KEY3</td><td>"Key3" field value from the playlist</td></tr> <tr><td>13</td><td>KEY4</td><td>"Key4" field value from the playlist</td></tr> <tr><td>14</td><td>URI</td><td>Clip identifier in the Skylark database</td></tr> <tr><td>15</td><td>MEDIA_STATUS</td><td>The media file status: MediaOk - the material was in the media database at the moment of playback, MediaOffline - the material was absent from the database (NoMedia error in the playlist).</td></tr> <tr><td>16</td><td>GPI_V1</td><td>The gpi_v1 field value from the playlist</td></tr> <tr><td>17</td><td>GPI_V2</td><td>The gpi_v2 field value from the playlist</td></tr> <tr><td>18</td><td>GPI_V3</td><td>The gpi_v3 field value from the playlist</td></tr> <tr><td>19</td><td>GPI_V4</td><td>The gpi_v4 field value from the playlist</td></tr> <tr><td>20</td><td>GPI_V5</td><td>The gpi_v5 field value from the playlist</td></tr> <tr><td>21</td><td>GPI_V6</td><td>The gpi_v6 field value from the playlist</td></tr> <tr><td>22</td><td>GPI_V7</td><td>The gpi_v7 field value from the playlist</td></tr> <tr><td>23</td><td>GPI_V8</td><td>The gpi_v8 field value from the playlist</td></tr> <tr><td>24</td><td>ONAIR</td><td>A flag that must be set from the backup switcher by GPI so logs would show which server was on-air (main or backup).</td></tr> <tr><td>25</td><td>GROUP</td><td>The group field value from the playlist</td></tr> </tbody> </table> <p>Message format: DATE TIME SPACE_MESSAGE</p> <ul style="list-style-type: none"> • Date - date in the "DD/MM/YYYY" format. • TIME - time in the HH:MM:SS:FF format. • SPACE_MESSAGE - random message, must start with a space. 	Column	Value	Description	1	DATE	date in the format YYYY-MM-DD	2	TIME	time in the format HH:MM:SS.microseconds	3	EVENT	Type of event: START, ERROR	4	TITLE	"Title" field value from the playlist	5	DURATION	"Duration" field value from the playlist	6	PLAYER	The layer in which the clip was played: MAIN or 2...8 (graphic layers)	7	TAPE	"Tape_name" field value from the playlist	8	ITEM_ID	The material id in a traffic/media-planning system. This value is formed by the traffic system at the moment of playlist generation.	9	COMMENT	"Comment" field value from the playlist	10	KEY1	"Key1" field value from the playlist	11	KEY2	"Key2" field value from the playlist	12	KEY3	"Key3" field value from the playlist	13	KEY4	"Key4" field value from the playlist	14	URI	Clip identifier in the Skylark database	15	MEDIA_STATUS	The media file status: MediaOk - the material was in the media database at the moment of playback, MediaOffline - the material was absent from the database (NoMedia error in the playlist).	16	GPI_V1	The gpi_v1 field value from the playlist	17	GPI_V2	The gpi_v2 field value from the playlist	18	GPI_V3	The gpi_v3 field value from the playlist	19	GPI_V4	The gpi_v4 field value from the playlist	20	GPI_V5	The gpi_v5 field value from the playlist	21	GPI_V6	The gpi_v6 field value from the playlist	22	GPI_V7	The gpi_v7 field value from the playlist	23	GPI_V8	The gpi_v8 field value from the playlist	24	ONAIR	A flag that must be set from the backup switcher by GPI so logs would show which server was on-air (main or backup).	25	GROUP	The group field value from the playlist
Column	Value	Description																																																																													
1	DATE	date in the format YYYY-MM-DD																																																																													
2	TIME	time in the format HH:MM:SS.microseconds																																																																													
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4	TITLE	"Title" field value from the playlist																																																																													
5	DURATION	"Duration" field value from the playlist																																																																													
6	PLAYER	The layer in which the clip was played: MAIN or 2...8 (graphic layers)																																																																													
7	TAPE	"Tape_name" field value from the playlist																																																																													
8	ITEM_ID	The material id in a traffic/media-planning system. This value is formed by the traffic system at the moment of playlist generation.																																																																													
9	COMMENT	"Comment" field value from the playlist																																																																													
10	KEY1	"Key1" field value from the playlist																																																																													
11	KEY2	"Key2" field value from the playlist																																																																													
12	KEY3	"Key3" field value from the playlist																																																																													
13	KEY4	"Key4" field value from the playlist																																																																													
14	URI	Clip identifier in the Skylark database																																																																													
15	MEDIA_STATUS	The media file status: MediaOk - the material was in the media database at the moment of playback, MediaOffline - the material was absent from the database (NoMedia error in the playlist).																																																																													
16	GPI_V1	The gpi_v1 field value from the playlist																																																																													
17	GPI_V2	The gpi_v2 field value from the playlist																																																																													
18	GPI_V3	The gpi_v3 field value from the playlist																																																																													
19	GPI_V4	The gpi_v4 field value from the playlist																																																																													
20	GPI_V5	The gpi_v5 field value from the playlist																																																																													
21	GPI_V6	The gpi_v6 field value from the playlist																																																																													
22	GPI_V7	The gpi_v7 field value from the playlist																																																																													
23	GPI_V8	The gpi_v8 field value from the playlist																																																																													
24	ONAIR	A flag that must be set from the backup switcher by GPI so logs would show which server was on-air (main or backup).																																																																													
25	GROUP	The group field value from the playlist																																																																													
OSI AsRun	Log file in the OSI format																																																																														
Louth AsRun	Log file in the Louth format																																																																														
EuroSport	Log file in the special for EuroSport format																																																																														
COVI/CreaTV AsRun	Log file in the special COVI/CreaTV format																																																																														
SDS AsRun	Log file in the special SDS format																																																																														
Internal V2.2																																																																															
Custom AsRun	<p>Log file based on a user template. Added in version 2.4.163.</p> <p>Template Example #1 log_template.txt</p> <pre> #----- # This is a sample template for Custom AsRun log rules # # In addition to usually supported playlist variables \$(var), the following variables can be used # # \$(job_year) \$(job_mon) \$(job_day) \$(job_hour) \$(job_min) \$(job_sec) \$(job_frm) - The actual time the related media started # \$(cur_year) \$(cur_mon) \$(cur_day) \$(cur_hour) \$(cur_min) \$(cur_sec) \$(cur_frm) - The actual time this event occurred # \$(dur_hour) \$(dur_min) \$(dur_sec) \$(dur_frm) - The actual duration of the time the related media started to this event occurring # \$(on_air) - Airing status # \$(media_state) - Media state # \$(event) - Logging event that occurred # # The header only supports \$(cur_year) \$(cur_mon) \$(cur_day) \$(cur_hour) \$(cur_min) \$(cur_sec) # # After the variable name, arguments can be added to modify how the variable will be displayed # \$(event) -> \$(event,ralign,width:10) # width - Set strict width for text to be displayed # ralign - Align to right of text block, needs to have width set # As well, variable values can be mapped to different values by using = # \$(gpi1_mode,on=ENABLED,off=DISABLED,none=), if gpi1_mode is 'on' 'ENABLED' will be logged, if 'off' 'DISABLED' will be logged, if 'none' then no characters will be written ## # The template for graphics events starts with the '^' symbol in the beginning of the line. Same parameter as for the main event # and the same rules apply # #----- ! ! This will be the header text for this log, it will only be written when this log is opened, ! is used to set header lines ! Today's date: \$(cur_year)-\$(cur_mon)-\$(cur_day) ! \$(event,width:8) - \$(cur_hour):\$(cur_min):\$(cur_sec): \$(uri) was affected, media duration in frames \$(duration,ralign,width:12) Started: \$(ev_year)-\$(ev_mon)-\$(ev_day) \$(ev_hour):\$(ev_min):\$(ev_sec) ^\$(event,width:8) - \$(ev_hour):\$(ev_min):\$(ev_sec): \$(uri) Template Example #2 log_template2.txt \$(ev_year)\$(ev_mon)\$(ev_day)\$(player,width:8)\$(clip_hour):\$(clip_min):\$(clip_sec):\$(clip_frm)\$(uri,width:22)\$(type,width:1,type1=C,type2=T,type3=X,type4=K)\$(title,width:60) \$(comment,width:66)\$(ev_hour):\$(ev_min):\$(ev_sec):\$(ev_frm)\$(dur_hour):\$(dur_min):\$(dur_sec):\$(dur_frm) \$(gpi1_mode,on=E,off= ,none=)\$(gpi2_mode,on=E,off= ,none=)\$(gpi3_mode,on=E,off= ,none=)\$(gpi4_mode,on=E,off= ,none=)\$(gpi5_mode,on=E,off= ,none=)\$(gpi6_mode,on=E,off= ,none=)\$(gpi7_mode,on=E,off= ,none=)\$(gpi8_mode,on=E,off= ,none=) \$(start_type>manual=-,hard_start=T,auto=N) </pre>																																																																														

Since version 2.2.32, an AsRun log of a program channel now outputs information on an actual status of the media file (OK or OFFLINE). Graphic layers marked for logging but not marked as opaque now are output into an AsRun log as graphic events in addition to the main ones.

[Basic Information on SL NEO Server Logs.](#)

Routing Switchers

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

2 Storage(s) added. Automation type:

Playout Parameters | **Storages** | **Automation** | **Actions** | **Main/Backup Sync** | **BXF Connector**

Parameters | **Playlists** | **AsRun logs** | **Routing Switchers** | **External Lines**

Routing Switchers Layers: ([Add](#))

X	Server	Bus	Name
---	--------	-----	------

This tab allows anchoring a program channel to the router management service. Adding several routers is possible, providing their simultaneous switching. This may be useful, when video and audio signals in a path are switched by different routers.

Add Routing Switcher Layer

Server:

Bus:

Name:

Parameter	Description
Server	Specifying the IP address of the server with the activated router management service. In our case, the service is launched at the server itself, so the field may remain empty. The default value is localhost.
Bus	The value must be equal to 1
Name	Specifying a unique name of a matrix in the system, set in router management service settings (Router Buses).

Master Control Mixers

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type:

[Playout Parameters](#) [Storages](#) [Automation](#) [Actions](#) [Main/Backup Sync](#) [BXF Connector](#)

[Parameters](#) [Playlists](#) [AsRun logs](#) [Routing Switchers](#) [Master Control Mixers](#) [External Lines](#)

Mixer Layers: ([Add](#))

X	Server	Bus	Name
---	--------	-----	------

This tab allows anchoring the program channel to the mixer management service. The interface for adding a mixer is similar to adding Routing Switchers.

External Lines

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

1 Storage(s) added. Automation type:

[Playout Parameters](#) [Storages](#) [Automation](#) [Actions](#) [Main/Backup Sync](#) [BXF Connector](#)

[Parameters](#) [Playlists](#) [AsRun logs](#) [Routing Switchers](#) [Master Control Mixers](#) [External Lines](#)

External Lines: ([Add](#))

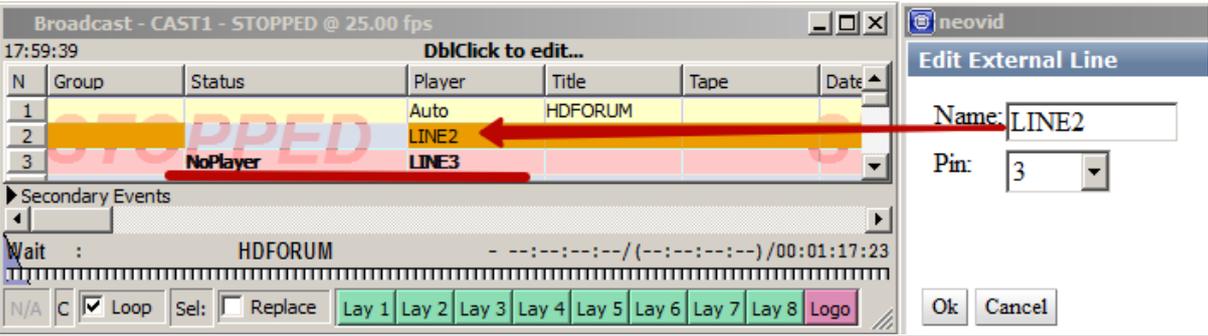
X	Name	Pin
---	------	-----

Assigning external lines for working in the "server before router" mode. Clicking Add launches a window for setting a new line.

Edit External Line

Name:

Pin:

Parameter	Description
Name	<p>The source name set here will be further used in a playlist of this program channel for specifying a broadcast source (set in the Player playlist column). The system checks if the name is correct, showing the "No Player" message in the playlist line, in case of a mistake in the external source name.</p> 
Pin	Specifying the number of a matrix router output to be switched to the router program output.

 This feature requires additional licensing.

Actions

Configuring Actions

Starting from version 2.0.148, the program channel (ezcaster) no longer reacts to actions causing changes in playlist execution (play, stop, skip, next_clip, select group, etc) in case, if it is backup and locked to the main one. Corresponding actions will be ignored until synchronization is off.

Playlist events

The tab groups conditions for triggering of actions, connected to analyzing coincidences of a column value in playlist items with a certain value set in the condition. Conditions are checked for every executable playlist item.

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

2 Storage(s) added. Automation type: Internal

Playout Parameters | **Storages** | **Automation** | **Actions** | **Main/Backup Sync** | **BXF Connector**

Playlist events | **General events** | **Backgroup events** | **Main Layer events**

Playlist event actions ([Add action](#))

X	Name	Address	Service	Ac
(Del Edit)	PlayGraphics			Pl
(Del Edit)	unpause			U1
(Del Edit)	pause			Pa
(Del Edit)	adv		ProgramChannel_1	Pl

Parameter	Description
Add Action	Creating an action.
Del	Deleting the selected action.
Edit	Editing an action.

Edit Action

Action configuration

Name:

Layer:

Delay:

Address:

Service:

Action:

Action condition

Variable:

Trigger if:

Value:

Variable:

Trigger if:

Value:

Trigger at start when primary matches

Trigger at end when primary matches

Trigger when secondary matches

Trigger when keypoint matches

Keypoint Track:

Keypoint Title:

Action parameters

Param 1:

Param 2:

Param 3:

Param 4:

Param 5:

Param 6:

Param 7:

Param 8:

Param 9:

Param 10:

Param 11:

Param 12:

Param 13:

Param 14:

Param 15:

Param 16:

Param 17:

Param 18:

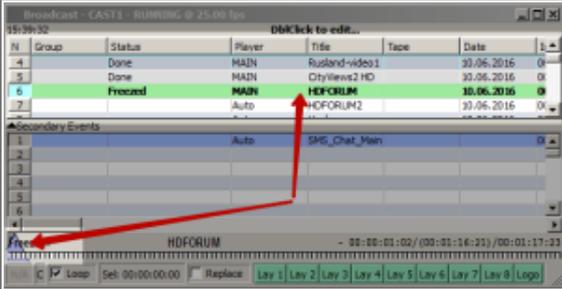
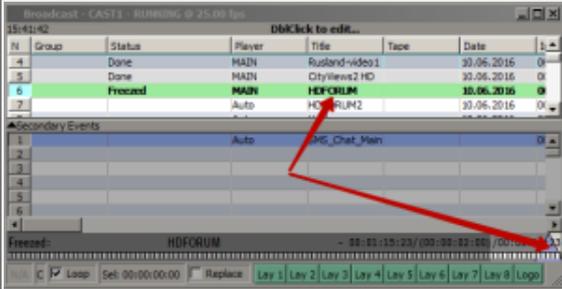
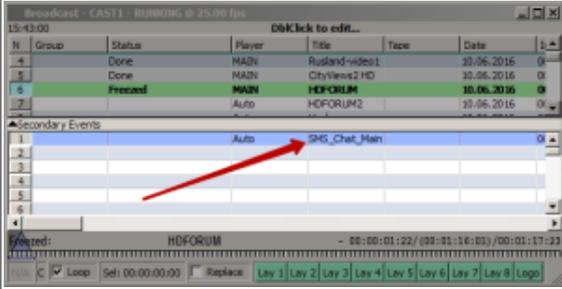
Param 19:

Param 20:

Ok Cancel

Parameter	Description
Action configuration	The section for selecting an action to configure
Name	A random name for the rule.
Layer	Selecting a layer number from 1 to 16 for checking the condition set in the "Action condition" section. 1 - the main layer (CAST1 playlist), 2 - the first graphic layer (of the CAST1_LAY1 playlist), etc.

Parameter	Description
Action configuration	The section for selecting an action to configure
Delay	<p>A shift in action execution relative to the time of triggering the condition in the “Action condition” section, in milliseconds. A negative value delays triggering the action, a positive value speeds it up.</p> <p>The diagram consists of two parts, A and B, each showing a sequence of three clips: Clip 1 (blue), Clip 2 (green, labeled 'Action condition = true'), and Clip 3 (blue). A timeline below each sequence shows the trigger point. In part A, the trigger occurs at the start of Clip 1, and a purple arrow indicates a 5000ms delay before the action starts at the beginning of Clip 2. In part B, the trigger occurs at the end of Clip 1, and a purple arrow indicates a 5000ms delay before the action starts at the beginning of Clip 2.</p>
Address	IP address of the server to send the command to. The empty value equals localhost.
Service	The destination service, selected from the list of available services.
Action	Name of the sent command (action). The value is selected from the list of actions available for the service. A complete List of Actions .
Action condition	The section of a condition for the action to trigger. If during a checkup of set conditions a true value is retrieved (Action condition=true), the service will send the command set in the “Action” field.
Variable	Specifying a playlist column, in which the value will be analyzed. The parameter value is selected from the list.
Trigger if	<ul style="list-style-type: none"> • EQUAL - the condition is true, if the Variable column value completely coincides with the Value field (case matters). Example: (Skylark and Skylark = true), (Skylark and skylark = false), (Skylark and Server = false). • NOT EQUAL - the condition is true, if the Variable column value does not coincide with the Value field (case matters). Example: (Skylark and Skylark = false), (Skylark and skylark = true), (Skylark and Server = true). • CONTAINS - the condition is true, if the Variable column value contains a substring specified in the Value field (case matters). Example: (Skylark and kylar = true), (Skylark and sky = false). • NOT CONTAINS - the condition is true, if the Variable column value does not contain a substring specified in the Value field (case matters). Example: (Skylark and kylar = false), (Skylark and sky = true).
Value	A text value. Some playlist columns require specifying data in a certain format. Hover the Value field for a hint.
Select operation (Select OP)	<p>The function of logical disjunction of conditions appeared in the version 2.0.104</p> <ul style="list-style-type: none"> • AND - logical “and”. Action condition=true, if both conditions are equal to “true”. • OR - logical “or”. Action condition=true, if one or both conditions are equal to “true”.

Parameter	Description
Action configuration	The section for selecting an action to configure
Trigger at start when primary matches	
Trigger at end when primary matches	
Trigger when secondary matches	
Trigger when keypoint matches	 <ul style="list-style-type: none"> • Keypoint Track - specifying the track value (standard values: General, Segments, Segment End, Secondary Event, Cue Point). An empty field coincides with any track. • Keypoint Title - an empty field coincides with Keyframe Title value.
Action Parameters	The group of parameters sent to the action.
Param1-Param14	Sent parameters. The number of sent parameters depends on a certain action selected in the Action field. Complete List of Actions . More details on Using Variables in parameters.

General events

The tab groups conditions for triggering of actions, connected to the general playlist status.

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

2 Storage(s) added. Automation type:

Playout Parameters
Storages
Automation
Actions
Main/Backup Sync
BXF Connector

Playlist events
General events
Backgroup events
Main Layer events

General actions ([Add action](#))

	Name	Address	Service	Action
X	StopGraphics			Stop Graphic

Parameter	Description
Add Action	Creating an action.
Del	Deleting the selected action.
Edit	Editing an action.

List of Supported Conditions in General Events:

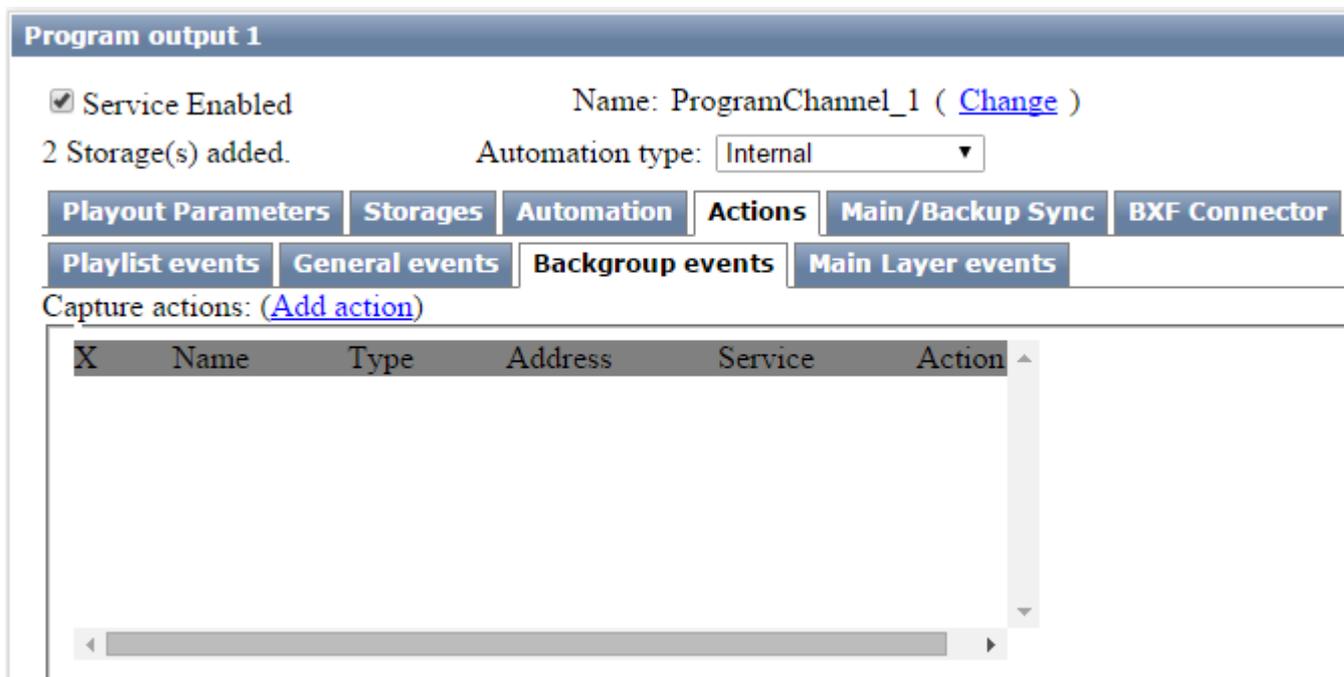
Condition	Description
Play list stopped	
Play list started	
Play list paused	
Play list unpaused	
Play list empty	
Play list not empty	
Sync Master	Playlist Synchronization with the main server (Lock main playlist).
Sync Offline	Playlist synchronization with the offline server (Lock main playlist offline).
Sync Once	One-time playlist synchronization (Synchronize once).
Sync Lost	Triggers if playlist synchronization with the main server is interrupted. If synchronization is turned off manually (Unlock main playlist), the condition won't trigger.
Players connected	
Players disconnected	
Media Aspect Ratio 4x3	
Media Aspect Ratio 16x9	
Media Aspect Ratio Other	
Media Offline	
Media Online	
Media Offline Clip	In the version 2.2.33 , the Media Offline Clip action has been added: its difference from Media Offline is that Media Offline triggers only after the MediaOnline → MediaOffline change, meanwhile Media Offline Clip will trigger every time, even if clips with no media are placed one after another.
Have Media Offline Clip	

Condition	Description
Not Have Media Offline Clip	
Playlist changed	Event called after any change in the playlist.
Item Action 1	Event called by the Action1 button in AirManger. Variables contain element data from the selected playlist item, which can be used in Param 1 - Param 20 fields. Added in version 2.3.33 .
Item Action 2	Event called by the Action1 button in AirManger. Variables contain element data from the selected playlist item, which can be used in Param 1 - Param 20 fields. Added in version 2.3.33 .

Background events

The tab groups action triggering conditions connected with detecting messages in the Background layer.

Background events use the analyzer with the configuring procedure described in the article [Configuring Actions in Capture Service](#).



Parameter	Description
Add Action	Creating an action.
Del	Deleting the selected action.
Edit	Editing the action.

Main Layer events

The tab groups action triggering conditions connected with detecting messages in the Main layer.

Main Layer events use the analyzer with the configuring procedure described in the article [Configuring Actions in Capture Service](#).

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

2 Storage(s) added. Automation type:

Playout Parameters | **Storages** | **Automation** | **Actions** | **Main/Backup Sync** | **BXF Connector**

Playlist events | **General events** | **Backgroup events** | **Main Layer events**

Capture actions: ([Add action](#))

X	Name	Type	Address	Service	Action

Parameter	Description
Add Action	Creating an action.
Del	Deleting the selected action.
Edit	Editing the action.

Main/Backup Sync

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

2 Storage(s) added. Automation type:

Playout Parameters | **Storages** | **Automation** | **Actions** | **Main/Backup Sync** | **BXF Connector**

Sync method:

Sync source address:

Sync source program:

Control Routers when Offline

Offline input pin:

Parameter	Description
-----------	-------------

BXF Connector

Configuring integration with traffic systems.

Program output 1

Service Enabled Name: ProgramChannel_1 ([Change](#))

2 Storage(s) added. Automation type: Internal ▼

[Playout Parameters](#) | [Storages](#) | [Automation](#) | [Actions](#) | [Main/Backup Sync](#) | [BXF Connector](#)

BXF Connections: ([Add](#))

X	Local Name	Local Path	Peer Name	Peer Path

BXF (Broadcast eXchange Format) is a SMPTE standardized protocol under the 2021 number, describing three types of data:

- planning and information management,
- metadata
- content change instructions.

The protocol allows data exchange between the broadcast automation system and sections of planning, advertising, distribution, etc. BXF eliminates the necessity to create intermediate files of different formats for exchanging information between subsections (including remote ones) by putting data to XML files.

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