

Playout (Actions)



The information is relevant for version [2.9.34](#) and later.

Description of [Playout](#) Actions.

Set video stream

Switches the signal source or file source to the module input. **Parameters**

- **Param1** - input stream type.
 - FILE - file source.
 - LIVE - signal from the software module.
 - URL - external source signal, for example, IP stream.
- **Param2** - file name, software module name, or stream URL.
- **Param3** - additional parameter, STILL flag. Enables output of the first frame of the sent signal (the frame will be deinterlaced). To set the flag, specify ON, YES, TRUE or 1. Provides file preview for the PVW output.

Set format conversion

Sets the video conversion mode upon a mismatch of the input signal Aspect Ratio and the module settings. **Parameters**

- **Param1** - conversion mode. Possible values: scale, crop, box, letter.
- **Param2** - AFD use flag. Possible values: true or false.

Set format

Sets the module output signal Aspect Ratio. **Parameters**

- **Param1** - Aspect Ratio. Possible values: 4:3 or 16:9.

Set Output AFD

Sets the AFD output value override. **Parameters**

- **Param1** - output value code:
 - FF,
 - 4x3B,
 - 16x9B,

- 14x9,
- 4x3SP14x9,
- 16x9SP14x9,
- 16x9SP4x3,
- NONE or empty value for Auto

Set Audio Language

Parameters

- **Param1** - language code identifier in the ISO-639-2 or “und” formats to set the default value.
- **Param2** - additional parameter. Language track ID.

Set audio gain

Sets the level of audio gain for the output signal. 2.0 = +6dB, 0.5 = -6dB. **Parameters**

- **Param1** - gain level. Possible values: 2.0 = +6dB, 0.5 = -6dB.

Set Subtitle Language

Sets the subtitle track language. **Parameters**

- **Param1** - define the language. Possible values:
 - LCID - language code identifier in the ISO-639-2 format.
 - NONE - language not set.
 - empty value - leave the current value unchanged.
- **Param2** - additional parameter. Subtitle track ID.
- **Param3** - additional parameter. Subtitle track protocol. Possible values:
 - open
 - closed
 - dvb

Play Subtitle

Command to play the subtitle file. **Parameters**

- **Param1** - subtitle file name.
- **Param2** - additional parameter. Subtitle stream id.
- **Param3** - additional parameter. Defines the subtitle language. Possible values:
 - LCID - language code identifier in the ISO-639-2 format.
 - NONE - language not set.
 - empty value - leave the current value unchanged.
- **Param4** - Additional parameter, IN point. Possible values: time code in the hh:mm:ss[:ff] format, or the number of frames.

- **Param5** - Additional parameter. Offset from the IN point. Possible values: time code in the hh:mm:ss[:ff] format, or the number of frames.
- **Param6** - Additional parameters. Subtitle track protocol. Possible values:
 - open
 - closed
 - dvb

Set Open Captions Stream

Sets the current caption stream to be displayed. **Parameters**

- Param1 - caption stream number or 0 to disable caption output.

Enable Caption Formatting Override

Deletes caption formatting and uses default values. **Parameters** No parameters.

Disable Caption Formatting Override

Saves caption formatting and uses it, if present. **Parameters** No parameters.

Graphics action

Allows executing [graphics API](#) commands for graphic compositions played by the module. For example, hide or show elements inside the graphic composition. **Parameters**

- **Param1** - graphics API command. For example, object_show.
- **Param2** - name of the object inside the graphic composition. For example, TextObject1.
- **Param3** - Graphics API Param1 parameter for the Param1 command (if needed). For example, object_show takes 3 additional parameters.
- **Param4** - Graphics API Param2 parameter for the Param1 command (if needed).
- **Param5** - Graphics API Param3 parameter for the Param1 command (if needed).
- **Param6** - Graphics API Param4 parameter for the Param1 command (if needed).
- **Param7** - Graphics API Param5 parameter for the Param1 command (if needed).
- **Param8** - Graphics API Param6 parameter for the Param1 command (if needed).
- **Param9** - Graphics API Param7 parameter for the Param1 command (if needed).
- **Param10** - Graphics API Param8 parameter for the Param1 command (if needed).

Enable DRC

Enables Audio DR (Dynamic Range Compression) to normalize the output audio signal level. DRC settings are configured in the module's settings in the control panel. **Parameters** No parameters.

Disable DRC

Disables Audio DRC. **Parameters** No parameters.

Enable EBU-R128 Loudness

Enables [EBU-R128 Loudness](#) to normalize the output audio signal level. EBU-R128 parameters are configured in the module's settings in the control panel. **Parameters** No parameters.

Disable EBU-R128 Loudness

Disables EBU-R128 Loudness. **Parameters** No parameters.

EBU-R128 Loudness Preset

Allows you to install a preset with EBU-R128 Loudness settings. Switching happens in real time with no reboots or flash frames. Preset parameters are specified in the module's settings in the control panel. This may be used, for instance, when live broadcasts require settings different from those for broadcasting from files. **Parameters**

- **Param1** - installed preset number from 1 to 4

Connect hardware

Sends the command to connect to the I/O board. **Parameters** No parameters.

Disconnect hardware

Sends the command to disconnect from the I/O board. **Parameters** No parameters.

Set Sync Mode

Controls the mode of inter-module frame synchronization. **Parameters**

- **Param1** - selecting the synchronization mode:
 - Master - only one "Source→Playout" mapping can operate in this mode. If several Playout modules need to be connected to the same source, the remaining modules need to be set to other synchronization modes: Slave or FreeRun.
 - Slave

- FreeRun

Add Action Handler

Registers a new handler for Internal Actions in the system. **Parameters** Takes five parameters.

Delete Action Handler

Deletes the Internal Actions handler. **Parameters**

- **Param1** - name of the deleted handler.

Enable WSS

Enables output of the [WSS signal](#) to the output signal. Added in [2.2.8](#). **Parameters** No parameters.

Disable WSS

Disables output of the WSS signal. Added in [2.2.8](#). **Parameters** No parameters.

Show logo

Enables displaying the graphic layer with the logo. **Parameters** No parameters.

Hide logo

Disables displaying the graphic layer with the logo. **Parameters** No parameters.

Set logo

Sets the playback source in the logo layer. **Parameters**

- **Param1** - source type
 - FILE
 - LIVE
 - URL
 - PRESET
 - NONE
- **Param2** - source (file, preset, module) name.

Preset logo

Controls whether to set or reset presets for the logo layer. **Parameters**

- **Param1** - preset's name.
- **Param2** - preset's source URL
- **Param3** - the parameter controls changing the active preset. If the preset is in use:
 - 0, false or no - do not apply changes.
 - 1, true or yes - apply changes.

Set Source

Assigns a signal source for the service. **Parameters**

- **Param1** - string with a new signal source. The string is specified in the "shm_pal://SERVICE" format. For example, "shm_pal://Capture_1"

Set Encoder Bitrate

Sets the encoding speed. **Parameters**

- **Param1** - new bitrate in kbps.
- **Param2** - new VBV-buffer size in kbps.

Set Transrate

With Dynamic Bitrate and Transrate enabled, the output stream will be a result of two-pass encoding. This is used for statistical multiplexing in Encoder groups in Ezmuxer. **Parameters**

- **Param1** - controls option activation:
 - 0, false or no - disables transrating.
 - 1, true or yes - enables transrating.

Live CC On

Enables the closed captioning mode of the output stream live (Live CC). The interface for manual subtitling opens from the Status tab of the control panel. Using Actions for text output is possible.

Parameters

- **Param1** - selecting the CC output stream: 1 or 2.

Live CC Off

Disables closed captioning of the output stream live. **Parameters**

- **Param1** - selecting the CC output stream: 1 or 2.

Live CC Set Params

Sets parameters for closed captioning of the output stream live. **Parameters**

- **Param1** - selecting the CC output stream: 1 or 2.
- **Param2** - the number of strings: 2, 3 or 4.
- **Param3** - base line: from 1 to 15.
- **Param4** - indentation: 0, 4, 8, 12, 16, 20, 24 or 28.

Live CC Append

Adds text to the Live CC output stream. **Parameters**

- **Param1** - selecting the CC output stream: 1 or 2.
- **Param2** - text to output

SCTE-104 Splice Request

Inserts the [SCTE-104 Splice Request](#) command into the output stream. **Parameters**

- **Param1** - AS_Index - possible value: 0-255. 0 - AS_Index is not required.
- **Param2** - DPI_PID_index - possible value: 0-65535. 0 - DPI_PID_Index is not required.
- **Param3** - splice_insert_type
 - 0 - reserved,
 - 1 - spliceStart_normal,
 - 2 - spliceStart_immediate,
 - 3 - spliceEnd_normal,
 - 4 - spliceEnd_immediate,
 - 5 - splice_cacel
- **Param4** - splice_event_id - 32bit Integer value. Leave blank for auto generation.
- **Param5** - unique_program_id - possible value: 0-65535.
- **Param6** - pre_roll_time - value in milliseconds.
- **Param7** - break_duration - value in tenths of a second. Leave blank if unknown or not required.
- **Param8** - avail_num - possible value: 0-255. Identifies the ad slot within the program. Leave 0, if not used.
- **Param9** - avails_expected - possible value: 0-255. The number of expected free slots within the current viewing event. Leave 0, if avail_num is not used.
- **Param10** - auto_return_flag - Auto-return flag:
 - 0 - no auto-return is required,

- 1 - auto-return is required, if the break_duration field is filled.

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