

Live CC Function (Live Captioning)

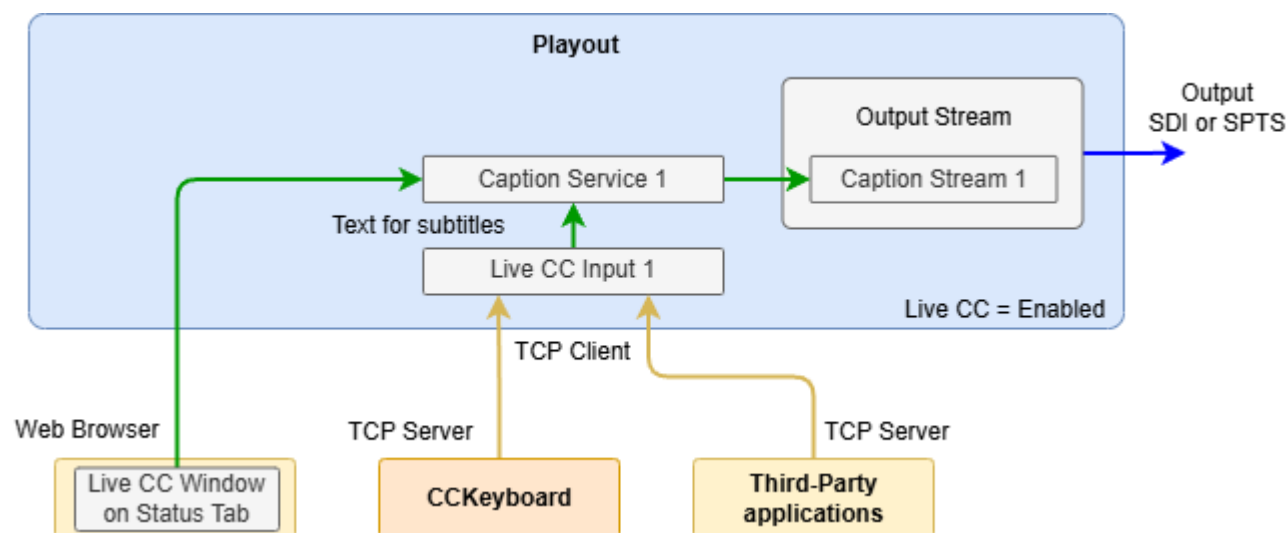


Description is valid for software version [2.11.0](#) and newer.

The **Live CC** function is intended for real-time subtitling of the generated or passing signal during live broadcast. The [Playout](#) module allows you to directly input subtitles from external sources and create subtitle data for subtitle streams setup in the module configuration. Subtitle generation in Teletext, CEA-708/608 and open subtitles is supported. Each configurable subtitle output stream can be connected to receive subtitle data from its own subtitle source, allowing real-time multilingual subtitling.

Scheme

The image shows an example of how software modules interact when using the Live CC feature.



The subtitle text is passed from the client application [CCKeyboard](#) or a third-party application to the Playout module over a TCP socket as a simple stream of characters. This text is processed within the Playout module and then sent to the appropriate subtitle encoding and output service. The subtitles are then delivered to the output of the Playout module as part of the output signal. Other subtitle providers, including AI systems, can also be used as sources of subtitle data.

Text Formatting

The character stream may include control sequences to change the background and foreground colour of the subtitles. The control sequences must have the same format as [text in a graphics composition](#). Example: {?fg:#RRRGGBB?} or {?bg:#RRRGGBB?}. When viewing in VLC player, you should take into account its [colour support features](#).

Settings

Playout (Server) Module Settings

Enable subtitle generation in the Playout module:

- Open subtitles are activated on the tab: Administrator Control Panel→Manage→Video IO Boards→Playout_N→Open Captions Configuration→Display Open Captions.
- Closed Captions are activated on the tab: Administrator Control Panel→Manage→Video IO Boards→Playout_N→Caption Configuration→Render Captions.

Enable the Live CC option for the corresponding Playout module: Administrator Control Panel→Manage→Video IO Boards→Playout_N→General→Live CC=Enabled.

Then configure the mapping of subtitle sources to subtitle generation services in the Playout module: Administrator Control Panel→Manage→Video IO Boards→Playout_N→General→Live CC Inputs....

Live Captions Inputs

	Address	Codepage	Service
Input 1	localhost:54301	UNICODE (UTF-8)	1
Input 2		Default	Open
Input 3		Default	Open
Input 4		Default	Open
Input 5		Default	Open
Input 6		Default	Open
Input 7		Default	Open
Input 8		Default	Open
Input 9		Default	Open
Input 10		Default	Open
Input 11		Default	Open
Input 12		Default	Open
Input 13		Default	Open
Input 14		Default	Open
Input 15		Default	Open
Input 16		Default	Open

OkCancel

The following parameters are configured for each connection to the text source:

Parameter	Description
Address	The source address with TCP server activated. A client application CCKeyboard can be used as the source.
Codepage	The encoding selection of the transmitted text.

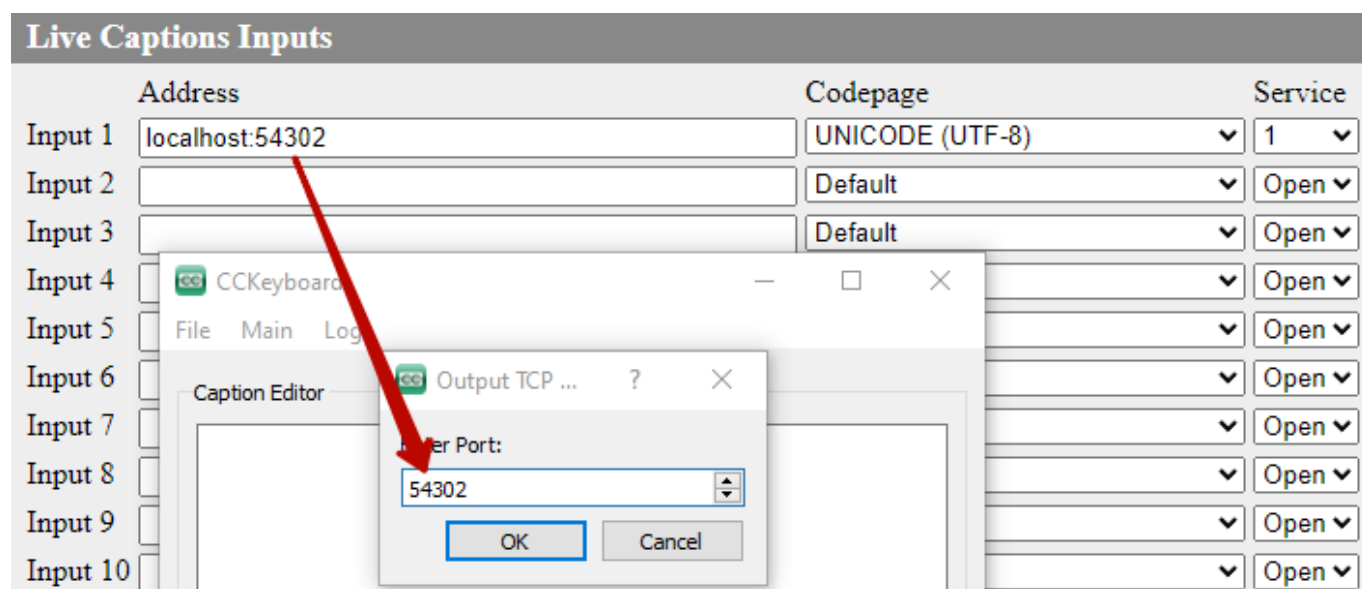
Parameter	Description
Service	The number of the service receiving the text: <ul style="list-style-type: none"> • Open - for open subtitles. • 1-16 - for closed captions.

Control over the connection status to the configured text sources is available in the window of the corresponding Playout module on the Status tab: Administrator Control Panel→Status→Playout_N→Live CC Input N:

- **Connected** - the Playout module has successfully connected to the source with the specified number.
- **Not connected** - no connection was made. Make sure that the correct connection parameters are specified and the remote service is running.

Configuring CCKeyboard (Client)

To establish a connection in the client application [CCKeyboard](#), the same port that was set on the Playout module side must be specified.



Web-based Subtitle Input Interface (Client)

The server control panel has a built-in subtitle input interface, which is an alternative to the CCKeyboard application. The interface is accessible via the menu on the Status tab: Administrator Control Panel→Status→Playout_N→Live CC.

Live Closed Captions

CC

Service: Open Start Stop INSERTION ON

Lines: 2 Base: 15 Indent: 4 30

test text

Send

Close

Parameter	Description
Service	The option defines the subtitle service to which the text will be output: <ul style="list-style-type: none">1 or 2 - hidden subtitle services.Open - open subtitle service.
Start	Button connects to the selected service.
Stop	Button disconnects the service.
Status	<ul style="list-style-type: none">INSERTION OFF - connection to the subtitle service is not completed. Press the Start button to connect.INSERTION ON - The subtitle service is connected. If there is no text input for one minute, automatic disconnection will be performed. Press the Start button to reconnect.
Lines	The maximum number of lines that can be shown when displaying subtitles. Possible values: 2-4.
Base	The parameter used in CEA-608 sets the vertical offset of the subtitle output line. Possible values: 1-15.
Indent	Sets the text indent. The value in characters can be selected from the list: 0, 4, 8, 12, 16, 20, 24, 28.
Unnamed	Option sets the maximum number of characters per line. If the specified value is exceeded, the message will be sent automatically. The rest of the text that exceeds the specified number of characters will be moved to the beginning of the line to continue typing. The value is set in characters from 20 to 32.

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