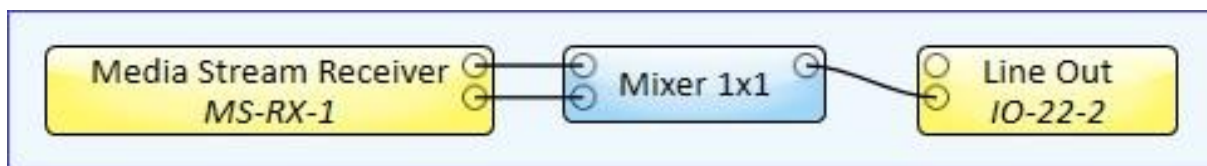# Streaming with VLC Media Player and Q-SYS™

VLC media player is a free and open source cross-platform multimedia player and framework that plays most multimedia files as well as DVDs, Audio CDs, VCDs, and various streaming protocols. It can be downloaded at www.videolan.org.

1. Instructions for Streaming from VLC Media Player to Q-SYS

UDP Unicast – VLC on Mac

CMD + SHIFT + W (Streaming / Exporting Wizard)
Choose Stream to Network, click Next
In Select a stream click the Choose… button, pick a file, click OK then click Next
Choose UDP Unicast
Set Core IP in Destination
Enable Transcode Audio
Audio – choose A/52, MPEG or MP3, Click Next
Encapsulations MPEG TS
Next, Next, Finish

Alternative Method – note that this allows for custom Port configurations
CMD+SHIFT+O (Advanced Open File)
Choose File
Enable Stream/Saving and click Settings
Enable Stream Type as UDP
Set IP Address of Core
Choose suitable port number (1234 default is OK)
Encapsulation Method (MPEG TS)
Transcoding Options
Audio – choose mp3, mpga or a52
Audio --- bitrate 128, channels 2 (or other appropriate settings)
Click OK – then Open

UDP Unicast – VLC on Windows

CTRL+S (Media | Stream)
Add Media File
Click Stream
Click Next
Add Destination (UDP (Legacy))
Click Add
Set IP Address of Core
Choose Suitable port number (default 1234 is ok)
Transcoding set to Video – H.264 + MP3 (TS)
Stream

Q-SYS Media Stream Receiver
URL = udp://:1234
URL = udp://:*<custom port number>*

UDP Multicast – VLC Mac

CMD + SHIFT + W (Streaming / Exporting Wizard)
In Select a stream click the Choose… button, pick a file, click OK then click Next
Choose File, click Next
Choose UDP Multicast
Enter suitable Multicast Address (225.0.0.1 for example), click Next
Enable Transcode Audio
Audio – choose A/52, MPEG or MP3 plus an appropriate bitrate, click Next
Encapsulations MPEG TS
Next, Next, Finish

UDP Multicast – VLC on Windows

CTRL+S (Media | Stream)
Add Media File
Click Stream
Click Next
Add Destination (UDP (Legacy))
Click Add
Set IP to a suitable Multicast IP address (225.0.0.1 for example)
Choose Suitable port number (default – 1234)
Transcoding set to Video – H.264 + MP3 (TS)
Stream

Q-SYS Media Stream Receiver
URL = udp://225.0.0.1:1234

RTP Unicast – VLC on Mac

CMD + SHIFT + W (Streaming / Exporting Wizard)
In Select a stream click the Choose… button, pick a file, click OK then click Next
Choose File, click Next
Choose RTP Unicast
Set Core IP in Destination, click Next
Enable Transcode Audio
Audio – choose A/52, MPEG or MP3, click Next
Encapsulation MPEG TS
Next, Next, Finish

RTP Unicast – VLC on Windows

CTRL+S (Media | Stream)
Add Media File
Click Stream
Click Next
Add Destination (RTP / MPEG Transport Stream or RTP Audio/Video Profile)
Click Add
Set IP Address of Core
Choose Suitable port number (default 5004)
Transcoding set to Video – H.264 + MP3 (TS)
Stream

Q-SYS Media Stream Receiver
URL = rtp://:5004
URL = rtp://:*<custom port number>*

RTP Multicast – VLC Mac

CMD + SHIFT + W (Streaming / Exporting Wizard)
In Select a stream click the Choose… button, pick a file, click OK then click Next
Choose File, click Next
Choose RTP Multicast
Enter suitable Multicast Address (225.0.0.1 for example), click Next
Enable Transcode Audio
Audio – choose A/52, MPEG or MP3 plus an appropriate Bitrate, click Next
Encapsulations MPEG TS
Next, Next, Finish

RTP Multicast – VLC on Windows

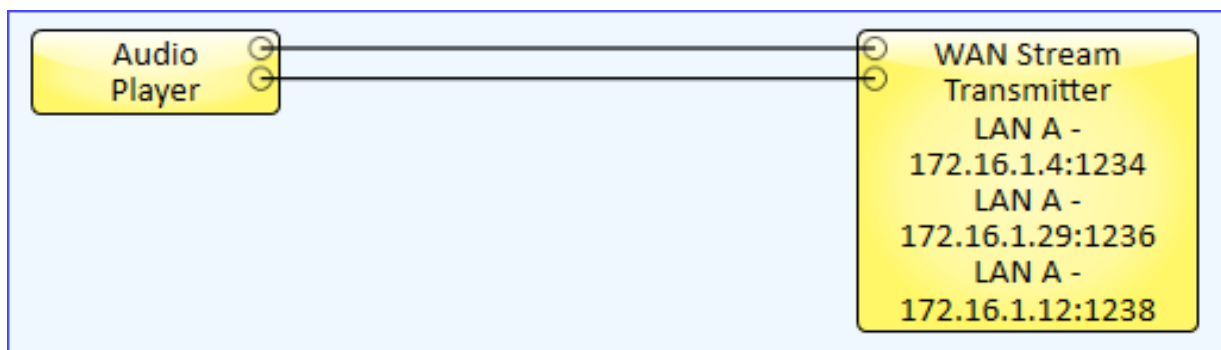CTRL+S (Media | Stream)
Add Media File
Click Stream

Click Next
Add Destination (RTP / MPEG Transport Stream or RTP Audio/Video Profile)
Click Add
Set IP to a suitable Multicast IP address (225.0.0.1 for example)
Choose Suitable port number (default – 5004)
Transcoding set to Video – H.264 + MP3 (TS)
Stream

Q-SYS Media Stream Receiver
URL = rtp://225.0.0.1:5004

2. Instructions for Streaming from Q-SYS to VLC Media Player

Setting up the Q-SYS WAN Streamer

Build a simple design as shown above
In the WAN Stream TX properties, configure the destination IP address(es) of the device(s) you want to stream to.
You can change the port number if you wish but it **must be** an Even number.
Save to Core and Run

Configuring VLC Player for Mac

CMD+N (Open Media)
Click Open RTP/UDP Stream
Change the protocol to RTP
Ensure Unicast is selected
Set the Port number to match those configured in the WAN TX in Q-SYS
Click Open, Open

Configuring VLC Player for Windows

CTRL+N (Open Network Stream)
Enter the following URL:- rtp://:@<port_number_on_WAN_TX>
Click Play

Configuring VLC Player for iPad / iPhone

Press the VLC logo (top left)
Click Open Network Stream
Enter the following URL:- rtp://:@<port_number_on_WAN_TX>

Note that VLC for iOS version 2.0.2 has a bug where it will not close a Network Stream nicely. As a result, you will need to hard quit and restart twice at least to get VLC Player back up and running after opening a network stream.