



LISTENTO

USER GUIDE

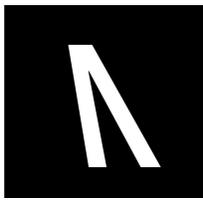


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1. Legal Disclaimer

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2. Welcome to LISTENTO

LISTENTO is a remote collaboration tool that enables users to share up to 16 channels of uncompressed audio directly from their DAW or audio IO device to multiple collaborators via the internet.

Users can generate and share LISTENTO streaming links with clients or collaborators. These links can be accessed in their DAW, a web browser, the LISTENTO application, and the LISTENTO mobile player.

LISTENTO offers user-adjustable transmission latencies and supports various audio formats, including PCM, AAC, and OPUS, in both lossless and lossy configurations.

LISTENTO is a secure and reliable service, with dozens of servers distributed globally. It operates seamlessly out of the box, using a custom transmission protocol that utilizes standard HTTPS ports, eliminating the need for IT infrastructure changes or adjustments.

3. Technical Specifications

LISTENTO, LISTENTO Instrument and LISTENTO Receiver:

- AAX, AU, VST, VST3
- Mac OS 11+ 64-bit
- Windows 10/11 64-bit

Note: Use LISTENTO plug-in legacy versions for Mac OS 10.11 - 10.13, Windows 10 32-bit, and legacy AAX versions for OS 10.10 and Pro Tools 12.

LISTENTO Application:

- Mac OS 11+
- Windows 10/11 64-bit

Note: Use LISTENTO application legacy versions for Mac OS X 10.11 - 10.13 and Windows 10 32-bit.

Supported DAWs/Hosts:

- Logic Pro X
- Cubase 11+
- Pro Tools 12+
- Ableton Live 10+
- Studio One 5+
- Reaper 6
- GarageBand 10
- FL Studio

Note: Other hosts may work but were not tested. Some hosts, such as Pro Tools First or Studio One Prime, will not work with LISTENTO plug-ins as they do not support third-party plug-ins.

4. Installation

If you are new to Audiomovers, you need to create an account before you can start using LISTENTO. To create an account, click [here](#), and then confirm your account via the email sent to you.

LISTENTO is available in both plug-in and desktop application formats. To download LISTENTO, log in to your Audiomovers account, navigate to the [Downloads page](#), and click the “Download” button under the LISTENTO plug-in or app section.

To install LISTENTO, run the LISTENTO Installer and follow the instructions.

The LISTENTO plug-in installer includes three plug-ins:

- **LISTENTO:** Enables real-time streaming of various lossless and compressed audio formats. Available as an audio effect plug-in in VST3, AU, and AAX formats.
- **LISTENTO Instrument:** Allows the transmission of MIDI information directly from virtual instrument/MIDI tracks in your DAW. Available as an instrument plug-in in VST3, AU, and AAX formats.
- **LISTENTO Receiver:** Receives and records incoming audio and MIDI streams from a LISTENTO transmission. Available as a generator plug-in in VST3, AU, and AAX formats.

The LISTENTO desktop application allows you to both transmit and receive LISTENTO streams. You can stream up to 16 channels from the application, with selectable audio device I/O and a built-in time code generator for remote timecode chasing.

Default Plug-In Installation Locations:**Mac OS:**

- /Library/Audio/Plug-Ins/VST
- /Library/Audio/Plug-Ins/VST3
- /Library/Audio/Plug-Ins/Components
- /Library/Application Support/Avid/Plug-Ins

Windows OS:**AAX:**

- C:\Program Files\Common Files\Avid\Plug-Ins

VST2:

- C:\Program Files\VSTplug-ins

Service Files:

- C:\Program Files\Audiomovers

VST3:

- C:\Program Files\Common Files\VST3 (32-bit Windows)
- C:\Program Files (x86)\Common Files\VST3 (64-bit Windows)

5. Broadband Requirements

Audio quality	Channels	Audio data rate	Internet speed	Quality
AAC				
AAC 320	STEREO	0.32 Megabit/s	0.43 Mbps	
AAC 256	STEREO	0.256 Megabit/s	0.35 Mbps	
AAC 192	STEREO	0.192 Megabit/s	0.26 Mbps	
AAC 128	STEREO	0.128 Megabit/s	0.17 Mbps	AAC good quality
AAC 96	STEREO	0.096 Megabit/s	0.13 Mbps	
OPUS				
OPUS 256	STEREO	0.265 Megabit/s	0.35 Mbps	
OPUS 128	STEREO	0.128 Megabit/s	0.17 Mbps	
Uncompressed Audio Format				
PCM 32 BIT 96 kHz	STEREO	6.15 Megabit/s	8.3 Mbps	Studio quality
PCM 32 BIT 88.2 kHz	STEREO	5.65 Megabit/s	7.63 Mbps	Studio quality
PCM 32 BIT 48 kHz	STEREO	3.11 Megabit/s	4.2 Mbps	Studio quality
PCM 32 BIT 44.1 kHz	STEREO	2.83 Megabit/s	3.82 Mbps	Studio quality
PCM 32 BIT 44.1 kHz	STEREO	2.12 Megabit/s	3.61 Mbps	Studio quality
PCM 32 BIT 192 kHz	STEREO	12.3 Megabit/s	16.6 Mbps	Studio quality
PCM 24 BIT 96 kHz	STEREO	4.61 Megabit/s	6.23 Mbps	Studio quality
PCM 24 BIT 88.2 kHz	STEREO	4.24 Megabit/s	5.73 Mbps	Studio quality

PCM 24 BIT 48 kHz	STEREO	2.31 Megabit/s	3.93 Mbps	Studio quality
PCM 16 BIT 96 kHz	STEREO	3.08 Megabit/s	4.16 Mbps	Studio quality
PCM 16 BIT 88.2 kHz	STEREO	2.83 Megabit/s	3.82 Mbps	Studio quality
PCM 16 BIT 48 kHz	STEREO	1.54 Megabit/s	2.62 Mbps	Studio quality
PCM 16 BIT 44.1 kHz	STEREO	1.41 Megabit/s	2.4 Mbps	CD quality

5.1. Broadband Latency Requirement

If your LISTENTO stream is dropping out despite meeting the broadband speed requirements, the issue is likely due to high internet latency. This has to do with the reliability of your connection, not its speed. A broadband ping measures the time it takes for a small piece of information to travel from your computer to a server and back. An unstable ping can lead to an unreliable connection, adversely affecting your stream.

To ensure a reliable LISTENTO stream when experiencing an unstable ping, perform a ping test in your terminal application to the LISTENTO server you are connected to. The connected server is visible in the LISTENTO UI when logged in and streaming.

```

— ping listento.audiomovers.com — 80x24
Last login: Thu Aug 22 14:15:52 on console
~ % ping listento.audiomovers.com
PING listento.audiomovers.com (34.102.230.90): 56 data bytes
64 bytes from 34.102.230.90: icmp_seq=0 ttl=119 time=116.520 ms
64 bytes from 34.102.230.90: icmp_seq=1 ttl=119 time=27.953 ms
64 bytes from 34.102.230.90: icmp_seq=2 ttl=119 time=45.323 ms
64 bytes from 34.102.230.90: icmp_seq=3 ttl=119 time=26.898 ms
64 bytes from 34.102.230.90: icmp_seq=4 ttl=119 time=28.023 ms
64 bytes from 34.102.230.90: icmp_seq=5 ttl=119 time=26.382 ms
64 bytes from 34.102.230.90: icmp_seq=6 ttl=119 time=28.083 ms
64 bytes from 34.102.230.90: icmp_seq=7 ttl=119 time=29.580 ms
64 bytes from 34.102.230.90: icmp_seq=8 ttl=119 time=27.094 ms
64 bytes from 34.102.230.90: icmp_seq=9 ttl=119 time=27.684 ms
64 bytes from 34.102.230.90: icmp_seq=10 ttl=119 time=29.415 ms
64 bytes from 34.102.230.90: icmp_seq=11 ttl=119 time=43.328 ms
64 bytes from 34.102.230.90: icmp_seq=12 ttl=119 time=28.304 ms
64 bytes from 34.102.230.90: icmp_seq=13 ttl=119 time=28.648 ms
64 bytes from 34.102.230.90: icmp_seq=14 ttl=119 time=29.155 ms
64 bytes from 34.102.230.90: icmp_seq=15 ttl=119 time=27.377 ms
64 bytes from 34.102.230.90: icmp_seq=16 ttl=119 time=26.470 ms
64 bytes from 34.102.230.90: icmp_seq=17 ttl=119 time=32.552 ms
64 bytes from 34.102.230.90: icmp_seq=18 ttl=119 time=27.891 ms
64 bytes from 34.102.230.90: icmp_seq=19 ttl=119 time=549.102 ms
64 bytes from 34.102.230.90: icmp_seq=20 ttl=119 time=718.761 ms
    
```

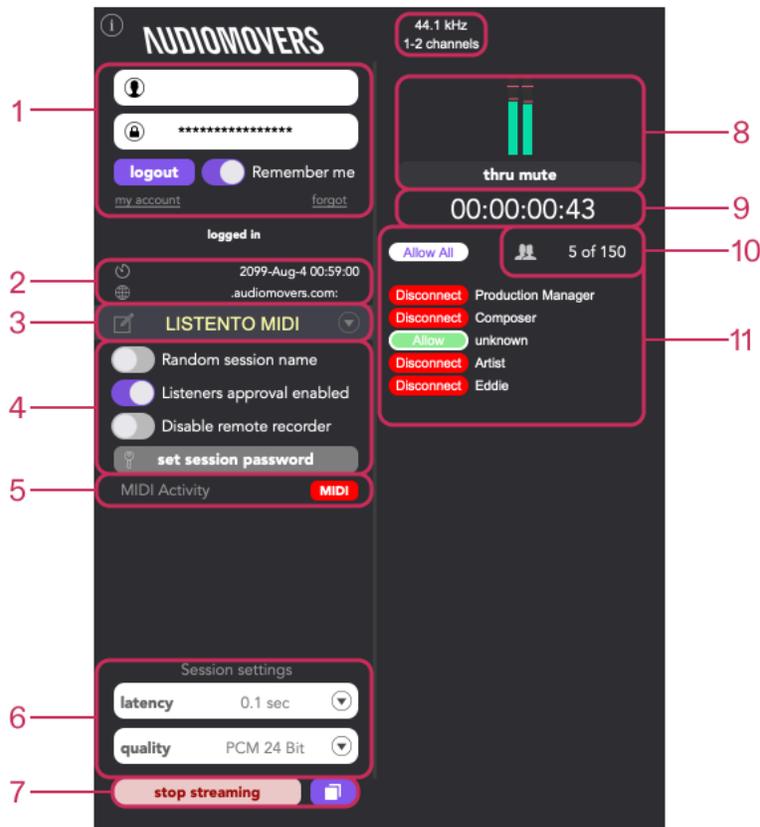
If the ping test results show significant variation, you should increase your LISTENTO stream buffer to a value higher than the maximum ping. This adjustment ensures that all data can reach our servers without dropouts.

If increasing the buffer does not resolve the dropouts, please contact your internet service provider.

6. User Interface

6.1. LISTENTO Plug-In

The LISTENTO plug-in enables the transmission of lossless quality audio from any track that supports plug-ins in your DAW, with latency as low as 100 ms. It supports all major channel widths up to 9.1.6.

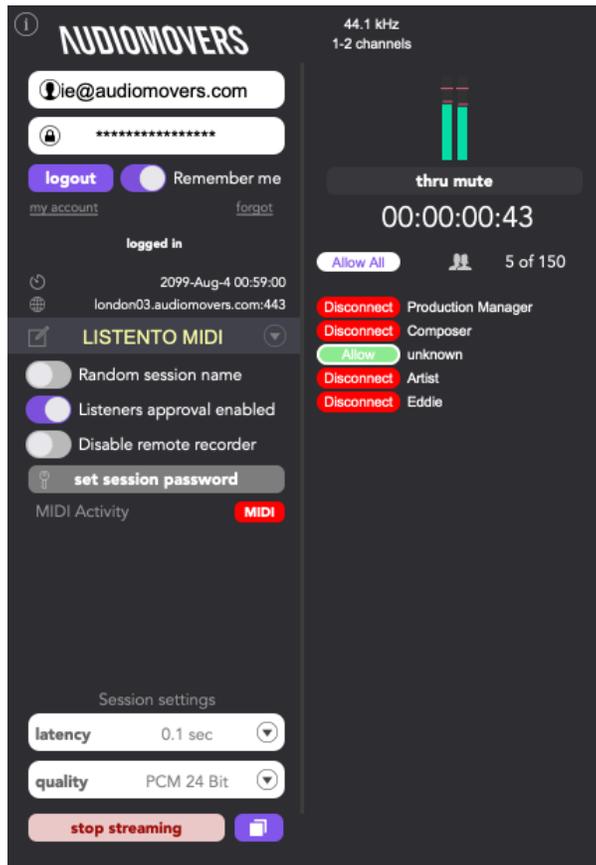


- 1. Login:** Use this section to log in with your Audiomovers credentials. You also have the option to save your credentials for future sessions, eliminating the need to enter credentials each time you start a stream.
- 2. Subscription End and Connected Server:** Displays the expiration or renewal date of your LISTENTO subscription, as well as the server to which your LISTENTO session is connected.
- 3. Session Name:** Here you can name your sessions and switch between previously saved sessions. Session names are linked to specific streaming URLs, allowing you to reuse the same link for sessions with the same name.
- 4. Security Settings:** Choose from various security options, including randomizing the session name upon each login, manually approving listeners, disabling the remote recorder, and setting a session password.
- 5. MIDI Activity Indicator:** Indicates when MIDI data is passing through the plug-in (available only with the LISTENTO Instrument).
- 6. Session Settings:** Adjust the latency and audio quality of your LISTENTO stream.
- 7. Start Streaming/Copy Link:** Click the “Start Streaming” button to begin your LISTENTO stream. Use the “Copy Link” button to copy the streaming link for sharing with collaborators.
- 8. Level Meters and Thru Mute:** Displays level meters for incoming audio from the LISTENTO plug-in. The “Thru Mute” button mutes the plug-in’s local output.
- 9. Session Timer:** Tracks and displays the playhead location within your DAW.
- 10. Listener Count:** Shows your listener limit (based on your subscription) and the number of active listeners currently connected to your stream.

11. Listener Approval: If enabled, you can approve or remove collaborators from your stream.

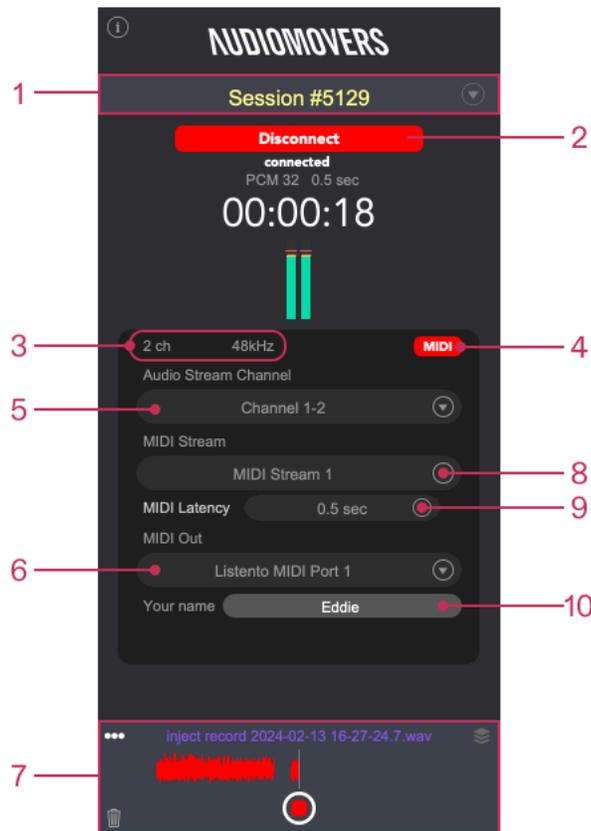
6.2. LISTENTO Instrument Plug-In

The LISTENTO Instrument plug-in enables you to transmit MIDI information directly from your DAW. It also includes a sidechain input, allowing you to transmit both MIDI and audio simultaneously. The LISTENTO Instrument UI features are similar to those of the LISTENTO plug-in UI.



6.3. LISTENTO Receiver Plug-In

The LISTENTO Receiver plug-in enables you to monitor or record active LISTENTO streams directly within your DAW. It also supports incoming MIDI from LISTENTO streams, generating a MIDI port that can bridge MIDI data to instrument or MIDI channels in your DAW.

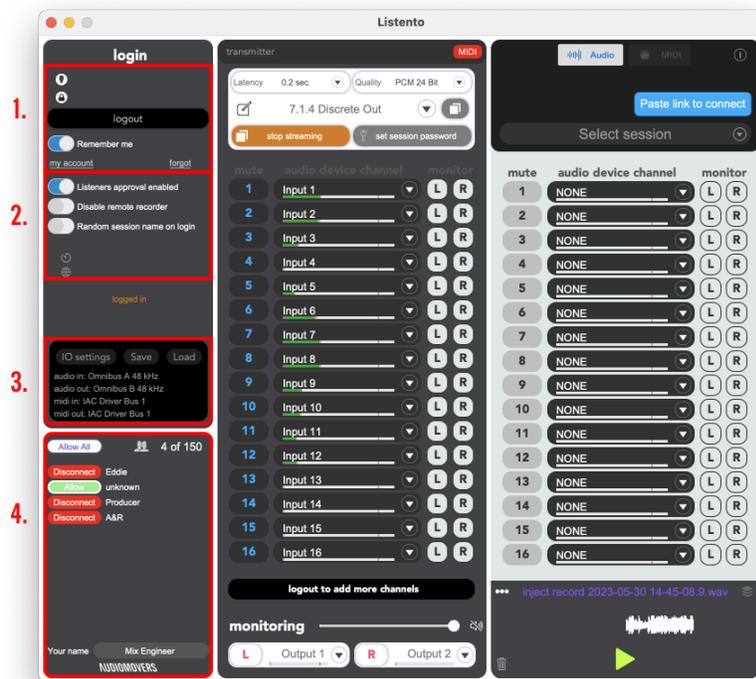


1. **Connected Session Name:** Displays the name of the LISTENTO session you are connected to. Click the dropdown on the left to reconnect to previously active sessions.

2. **Connect/Disconnect:** Paste LISTENTO streaming links here to connect to a stream. Click this button to disconnect when finished receiving a LISTENTO stream.
3. **Channel Count and Sample Rate:** Shows the channel count and sample rate of the incoming stream. An SRC icon indicates if the stream originates from a device with a different sample rate.
4. **MIDI Activity Indicator:** Lights up when MIDI information is being received from a LISTENTO MIDI stream.
5. **LISTENTO Stream Channels:** Displays which channels from the LISTENTO stream are being received. You can select specific channels to receive if the stream includes multiple instances or channels.
6. **MIDI Output:** Choose the designated output for MIDI from a LISTENTO stream. The LISTENTO receiver plug-in generates a virtual MIDI port for each instance of the plug-in inserted in your DAW.
7. **Built-in Recorder:** Allows you to record incoming LISTENTO streams directly within the plug-in. Recorded audio can be dragged and dropped into your DAW timeline.
8. **MIDI Stream:** Similar to the stream channels section, select MIDI streams from a LISTENTO session with multiple MIDI instances being streamed.
9. **MIDI Latency:** Adjust the latency for incoming MIDI streams, as defined by the receiver.
10. **Name:** Enter your name here. This name will be visible to LISTENTO transmitters when listener approval is enabled.

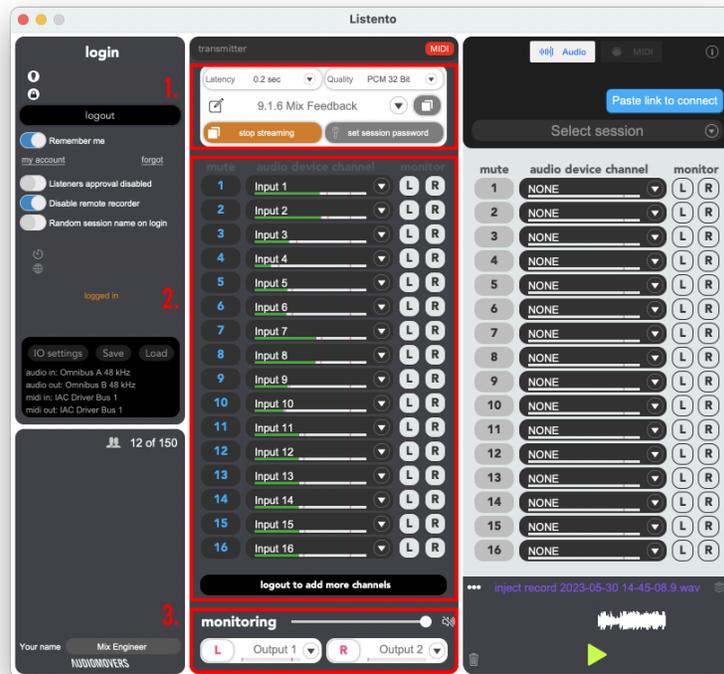
6.4. LISTENTO Application

The LISTENTO desktop application enables both transmission and reception of LISTENTO streams. It supports streaming up to 16 channels, offers selectable audio device I/O, and includes a built-in time code generator for remote timecode synchronization.



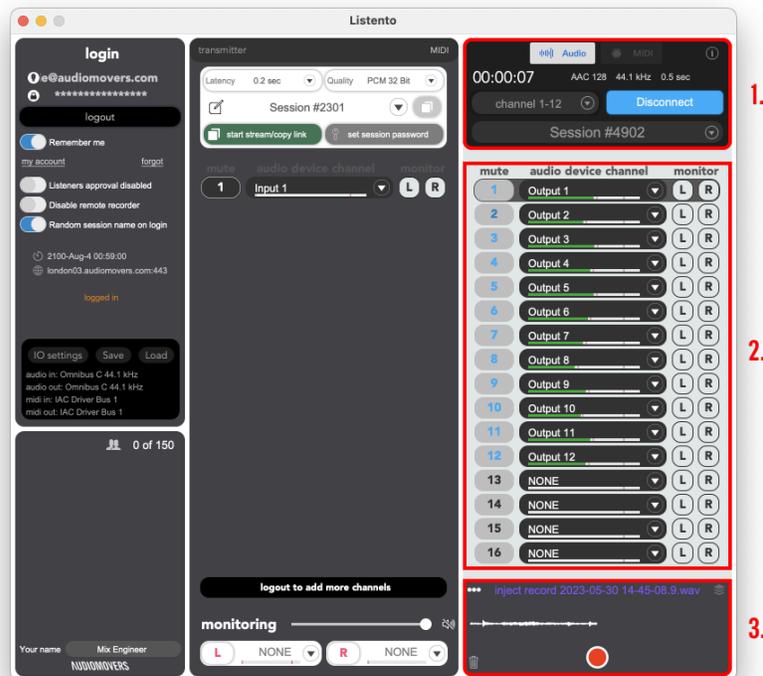
- 1. Login:** Use this section to log in with your Audiomovers credentials. You need a valid license to stream, which you can register for at audiomovers.com.
- 2. Security Settings:** As with the LISTENTO plug-in, you have enhanced security features you can toggle on and off.

- 3. **I/O Settings:** You can view your audio and MIDI I/O settings. Once logged out, you can change your audio and MIDI input and output settings. These settings can be saved and loaded from previous sessions.
- 4. **Listener Approval:** In this panel, you can set your own name and view the names of the listeners. You can allow listeners to join as a group or individually, as well as disconnecting any listeners as needed.



- 1. **Session Management:** Similar to the LISTENTO plug-in, in this top panel, you can adjust latency and streaming quality, name your session, and reload old sessions (session names and links are tied together, so you can resume an old session by using the same name). You can also start and stop streaming as needed and set a session password for increased security on your stream.

- 2. **Multichannel Streaming:** With LISTENTO, it is possible to stream multichannel audio, up to 16 channels. From here, you can map channels from your audio device, monitor stereo channels for each, and check that audio is coming through as expected.
- 3. **Audio Monitoring:** LISTENTO also has standard L and R audio channels for monitoring your stream. These channels can be assigned and routed based on the nature of what you are streaming.



- 1. **Stream Connection:** Similar to the LISTENTO Receiver plug-in, you can paste the link for the stream or select a previous session from the dropdown.
- 2. **Channel Monitoring:** Here you can see and monitor the individual channels coming from the stream you are receiving. These will automatically map to

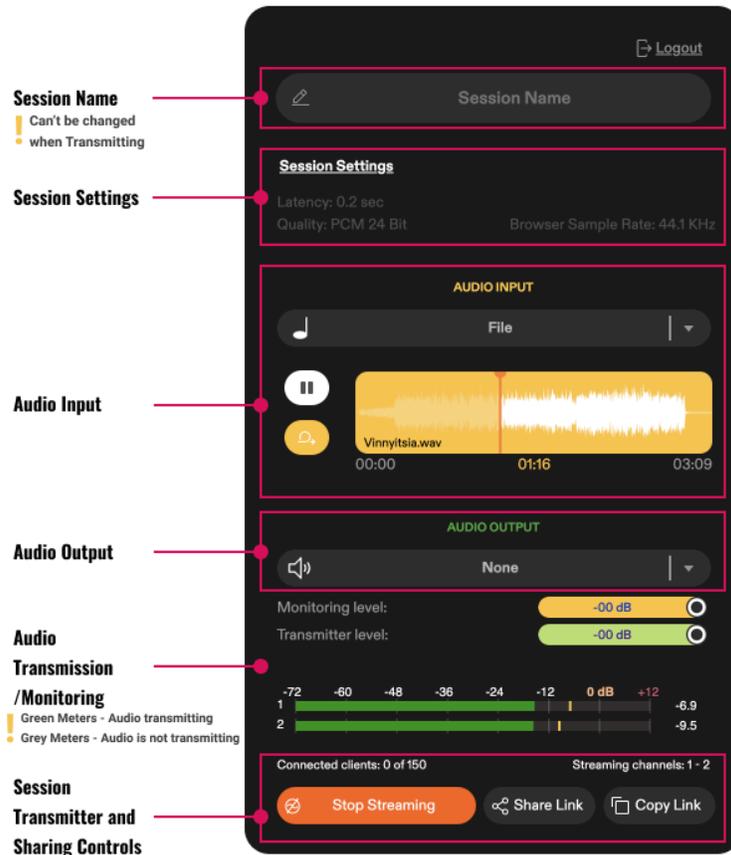
the individual channels coming from the stream. If the streamer sends a stream with eight channels, eight channels will be displayed here accordingly.

- 3. Recording:** Hit the red record button at the bottom to start recording the incoming audio stream directly to your computer. You can find your recordings by using the dropdown in the recording area. From here, you can select the file and drag it straight into a channel on your DAW timeline.

6.5. Web Transmitter

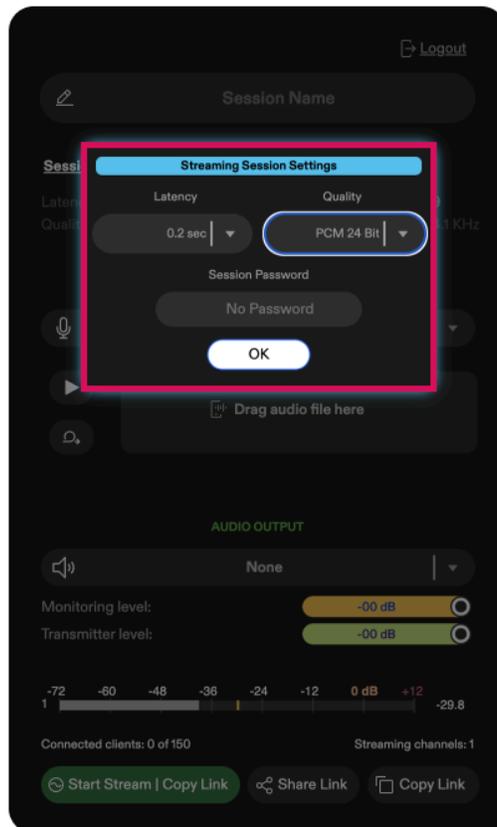
The Web Transmitter brings the streaming, recording, and high-quality audio collaboration functionality of LISTENTO to your browser directly and in real time. It allows you to stream audio from your browser to collaborators with the following features:

- Lossless audio up to 32-bit PCM
- Choice of input/output
- Drag and drop/loop audio files
- Share links with collaborators directly from the user interface



1. **Session Name:** Name your session as you prefer.
2. **Session Settings:** Adjust latency, audio quality, and password protection.
3. **Audio Input:** Choose your audio input or drag and drop files into place.
4. **Audio Output:** Set the output destination, monitoring level, transmission level, and view the transmission level meter.
5. **Share Transmission:** Start streaming, share the stream via the app (email), or copy the link to the clipboard.

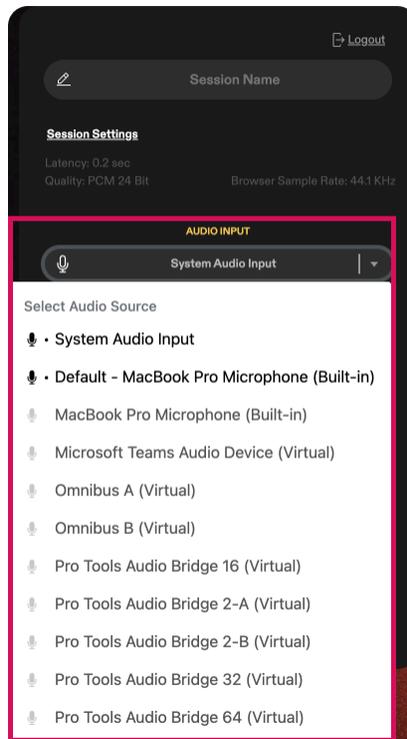
Clicking the “Session Settings” reveals the “Streaming Session Settings” pop-up menu.



- 1. Latency:** You can define your latency in LISTENTO Web Transmitter. Latency can range between 0.1 - 2 seconds, allowing you to adjust for different internet speeds and bandwidth.
- 2. Quality:** You can choose between two audio formats: compressed OPUS codec and uncompressed PCM transmission.
- 3. Session Password:** You can set a streaming session password here for an added layer of security.

6.5.1. Audio Input

The Web Transmitter enables you to select audio input sources available on your system, such as your built-in microphone or a USB audio interface, along with a built-in file player.

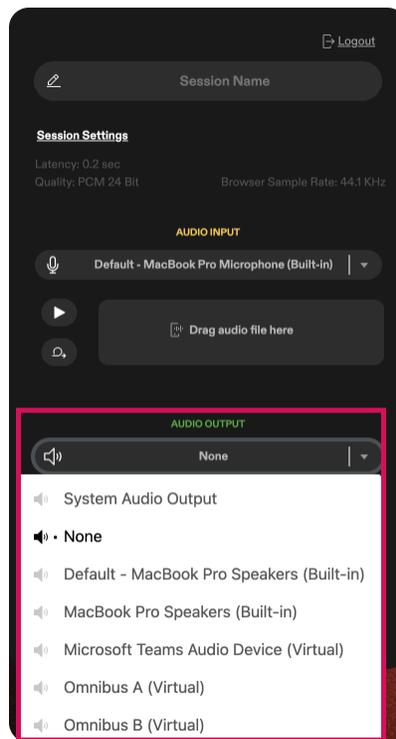


To use an audio file as your stream’s audio source, simply drag and drop the file into the Web Transmitter. You also have the option to loop your audio file. The Web Transmitter supports .aif, .mp3, and .wav formats.

By using our audio routing tool, OMNIBUS, you can route audio directly from your DAW or other applications into the Web Transmitter as an input source.

6.5.2. Audio Output

You can assign the Web Transmitter’s output to hardware or virtual outputs on your device for playback. Alternatively, you can choose “none” to bypass your stream’s playback, allowing only your collaborator to hear it.



7. Transmitting

7.1. Transmitting Audio from LISTENTO Plug-In

To stream audio using the LISTENTO plug-in, follow these steps:

1. Insert the LISTENTO plug-in to the DAW channel you wish to transmit. Ensure that it is the last plug-in in your chain so that all processing is applied before streaming.
2. Enter your login credentials in the LISTENTO plug-in, select your session name, and log in.
3. Once you have configured your LISTENTO session settings and are ready to begin, click the “Start Streaming” button.
4. Click the “Copy Link” button to obtain the streaming URL.
5. Send the copied streaming link to your collaborators so they can listen to your mix.

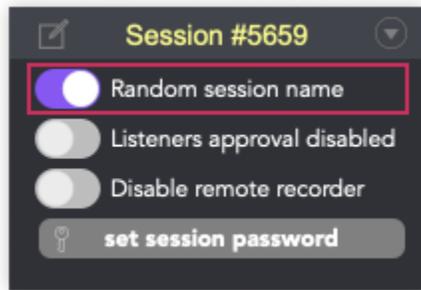
7.2. Session Naming

Before logging into the LISTENTO plug-in, you can assign a name to your LISTENTO stream. Each named LISTENTO session has a unique streaming link associated with it. To select from previously named sessions, use the dropdown menu to the left of the stream name.

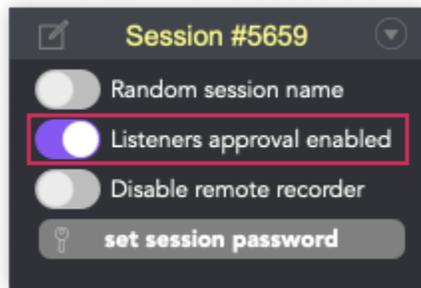
7.3. Security Settings

The LISTENTO plug-in offers several security features to manage access and control:

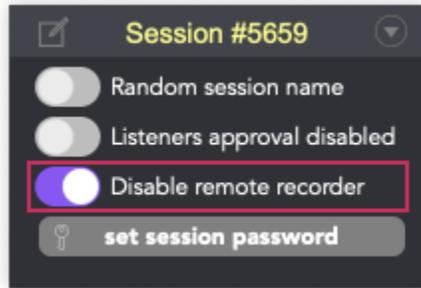
- Random Session Name:** When enabled, the plug-in generates a new session name and streaming link each time you log in. This ensures that each LISTENTO session has a unique link.



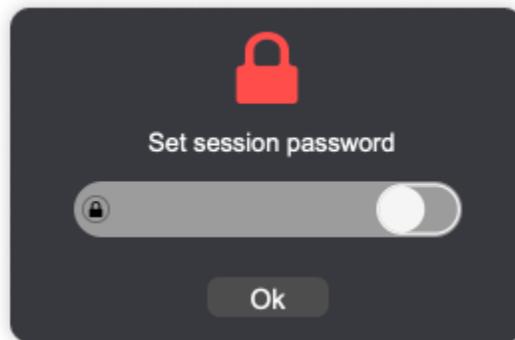
- Listener Approval:** This setting requires the transmitter to manually approve listeners before they can access the stream. When a listener attempts to connect, they will be prompted to enter their name. The transmitter must then approve or deny their access via the interface.



- Disable the Remote Recorder:** This option prevents receivers from using the built-in recorder in the LISTENTO Receiver plug-in and application.



- Set Session Password:** The transmitter can set a password for their LISTENTO stream. Listeners will need to enter this password to access the session.

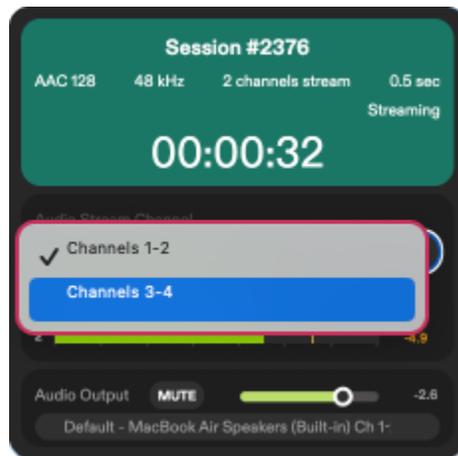


7.4. Transmitting with Multiple Instances of LISTENTO

To stream from multiple instances of the LISTENTO plug-in using one streaming link, follow these steps:

- Ensure that each instance of the LISTENTO plug-in in your DAW session has the same session name. This setup allows all instances to link together and stream through the same session link.

2. Configure all instances with the same session name to enable collective streaming through a single LISTENTO link.
3. Collaborators receiving the multi-channel streams can switch between the different streams in their chosen receiver application.

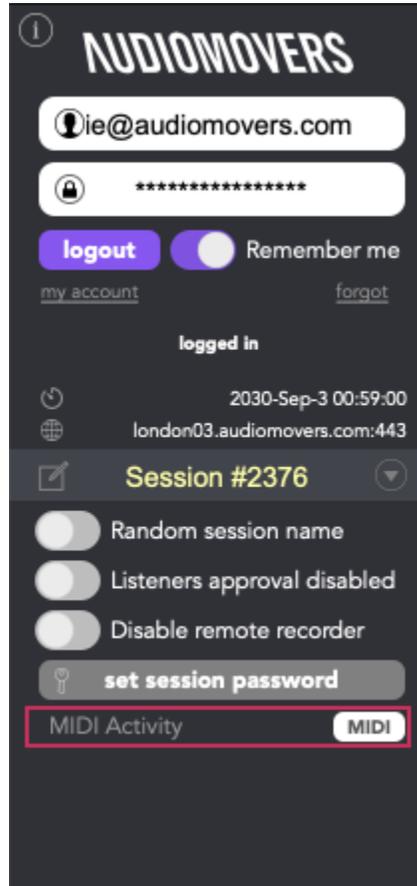


7.5. Transmitting MIDI from LISTENTO Plug-In

To stream MIDI from LISTENTO plug-in, follow these steps:

1. Insert the LISTENTO Instrument plug-in onto an instrument or MIDI track within your DAW.
2. Configure the LISTENTO Instrument just like you would with the regular LISTENTO plug-in. This setup will enable MIDI streaming.
3. Ensure that any MIDI data assigned to the track with the LISTENTO Instrument is correctly transmitted through the plug-in. This includes data from the piano roll, MIDI regions, or MIDI controllers assigned to that track.

The MIDI Activity Indicator will show when MIDI data is passing through the plug-in. Initially, the indicator will appear grayed out when you insert the LISTENTO Instrument.



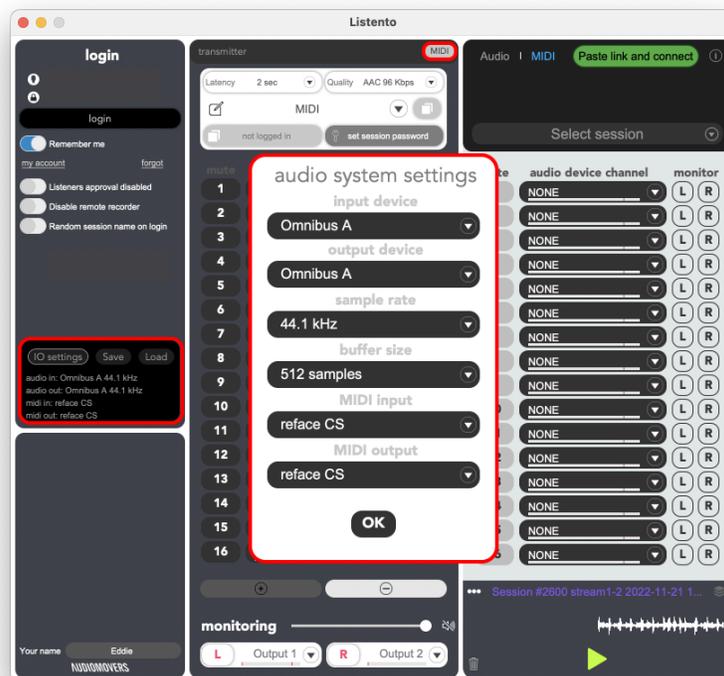
After logging in, the indicator will turn white, indicating that no MIDI data is currently passing through. When active MIDI information is detected, the indicator will flash red.

Note: If you have a LISTENTO Basic account, the MIDI Activity Indicator will remain grayed out while logged in.

7.6. Transmitting MIDI from LISTENTO Application

Similar to the LISTENTO plug-in, LISTENTO Pro subscribers can now transmit MIDI from the standalone LISTENTO application. To stream MIDI from LISTENTO application, follow these steps:

1. Navigate to your I/O settings within the LISTENTO application and select your MIDI inputs and outputs.
2. After assigning your MIDI I/O, log in, choose your session settings, start streaming, and send the streaming link to your collaborator.
3. The MIDI activity indicator on the top right of the transmitter will light up red when it detects MIDI activity. If no MIDI input is selected or you are not a Standard Plus subscriber, the MIDI activity indicator will be grayed out. The meter will be white when your MIDI transmission is ready but no MIDI is passing through.

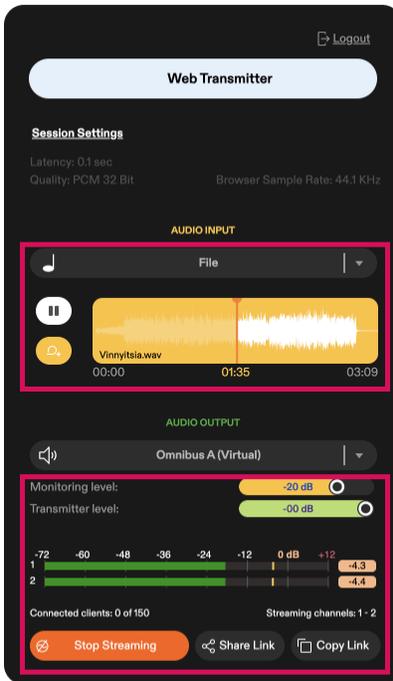


You can transmit MIDI along with up to 16 channels of audio within the same session.

Note: On Mac, once the LISTENTO application is opened, it will generate its own virtual MIDI port, which can be selected as a MIDI input or output.

7.7. Transmitting Audio from Web Transmitter

The Web Transmitter enables you to monitor your stream’s playback and control the transmission level.



At the bottom of the Web Transmitter’s user interface, you will find the stream’s level meter and options for sharing your stream. To start transmitting, click “Start Streaming.” When you are finished, click “Stop Streaming.”

You can either copy the streaming link to your clipboard and send it to your collaborator, or share your stream directly from the Web Transmitter by clicking “Share Stream.”

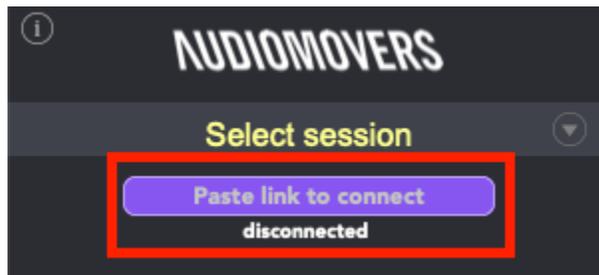
Upon clicking “Share Stream”, you will be prompted to enter your collaborator’s email address, to which the streaming link will be sent.

8. Receiving

8.1. Receiving Audio on LISTENTO Plug-In

To receive audio from the LISTENTO Receiver in your DAW, follow these steps:

1. Insert the LISTENTO Receiver on an auxiliary track or audio track in your DAW, depending on your setup.
2. Obtain an active LISTENTO streaming link from your collaborator. Paste the link into the “Paste Link to Connect” button in the LISTENTO Receiver. If reconnecting to a previously used session, select the session from the dropdown menu.



3. If receiving a multi-channel stream, choose the desired channels from the channel selector.

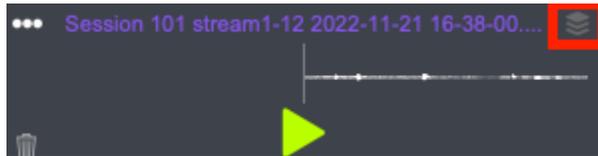
Note: If you notice the plug-in is disabled due to “Dynamic Plug-In Processing” (a common feature in DAWs to save CPU usage), you may need to assign an input to the channel with the plug-in inserted. In Pro Tools, disable Dynamic Plug-In Processing from the Playback Engine settings menu.

8.2. Built-In Recorder

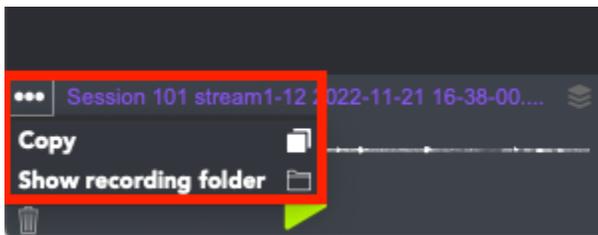
The LISTENTO Receiver plug-in has a built-in recorder located at the bottom of the UI. It allows you to record incoming audio streams directly within the plug-in. The recordings are saved locally on your computer in the LISTENTO Recordings folder.

To start recording a LISTENTO stream, click the record button at the bottom of the plug-in UI. The waveform will change from white to red, indicating that recording is active. To stop recording, click the button again.

You can then drag and drop the recorded audio into your session timeline. Additionally, you can select from previous LISTENTO recordings using the dropdown menu to the right of the built-in recorder.



On the left of the built-in recorder, you have the options to copy the audio file to the clipboard and to locate the audio recording folder.



The built-in recorder also allows playback of recordings when not connected to a LISTENTO stream.

8.3. Receiving MIDI on LISTENTO Plug-In

You can receive MIDI streams using the LISTENTO Receiver plug-in. When active MIDI data is passing into the receiver plug-in, the MIDI Activity Indicator will flash red.

If you are receiving MIDI streams from multiple transmitter plug-in instances, you can select from different MIDI streams using the MIDI stream selector dropdown. Adjust the MIDI latency according to the distance from your collaborator and your broadband ping.

MIDI streams differ from audio streams in that the receiver defines the MIDI latency. To adjust this, use the MIDI latency dropdown below the MIDI stream selector.

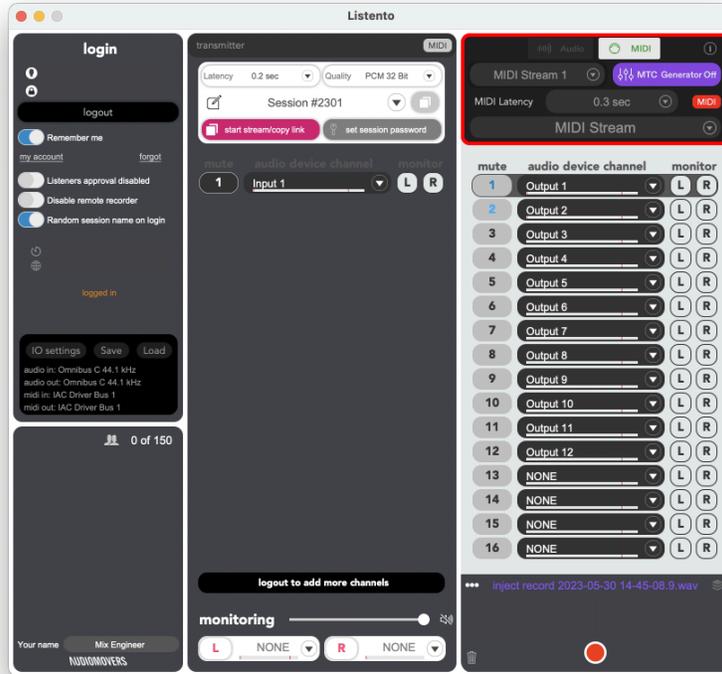
To route the MIDI information to your intended destination, select a MIDI port on your machine as the plug-in's MIDI output destination. Each instance of the LISTENTO Receiver in your DAW will have its own LISTENTO virtual MIDI port, which you can use to bridge MIDI from the plug-in to your chosen MIDI destination.

8.4. Receiving MIDI on LISTENTO Application

To receive MIDI streams using the LISTENTO application, paste a streaming link into the receiver of the LISTENTO application.

Similar to the plug-in, you will visibly see when MIDI is active on the standalone application as the MIDI prompt will light up red.

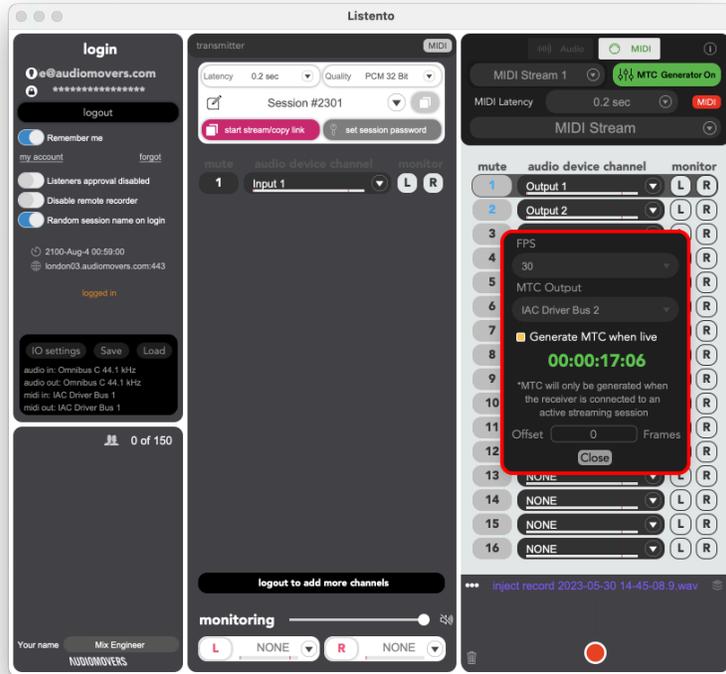
You can also manually adjust incoming MIDI latency in the receiver. MIDI that comes into the LISTENTO application will now be sent to your designated MIDI output assigned in the standalone app's I/O settings.



8.5. MTC Generator

The LISTENTO application’s MTC (MIDI Time Code) generator enables you to generate MIDI Time Code from your collaborator’s LISTENTO stream, facilitating synchronization of remote sessions.

You can select your desired FPS, choose the MTC output, and adjust the offset frames as needed.



For detailed instructions on syncing your DAW via MIDI Time Code, please refer to your DAW's user manual.