



up2talk

Remote Production Software

Highlights

- ▶ Remote production with high-quality, broadcast-ready audio
- ▶ Seamless integration with broadcast studios
- ▶ Browser-based software, no installation needed

Your audio. Our solution.

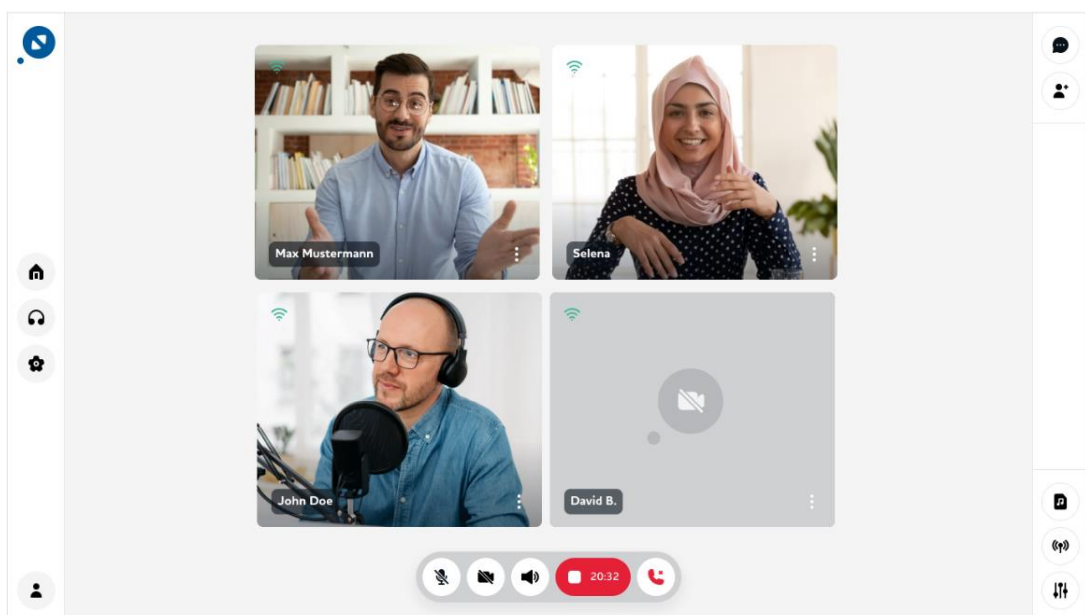
2wcom[®]

up2talk

Remote Production Software



Up2talk is a remote production software offering a user-friendly virtual room with high-quality audio for remote recordings, guest interviews, broadcast studio integration, and more. This software-as-a-service solution simplifies collaborating with remote participants, ensuring your sessions are captured with the best audio quality, no matter where they are.



easy2connect

- ▶ Collaborate, conference, and connect people with an easy browser-based solution
- ▶ Join the virtual studio only with one link
- ▶ Connect2studio with a pre-configured real studio with just one click

Use Cases

- ▶ Connect participants of an interview to a virtual or real studio via an invitation link
- ▶ Connect a moderator to a studio from home or on the go
- ▶ Get a speaker into a live radio show via browser

Audio First

- ▶ Use Opus in the highest possible settings or use the WebRTC Codec of your choice
- ▶ Broadcast quality audio with quality control features such as gain adjustment and monitoring

Remote Production

- ▶ Invite guests to a virtual studio for a face2face interview into the solution
- ▶ Record your session for content production with each audio track individually
- ▶ Connect a virtual studio to a real studio with one click
- ▶ Host the software yourself or use our 2wcom service for cloud-based software usage

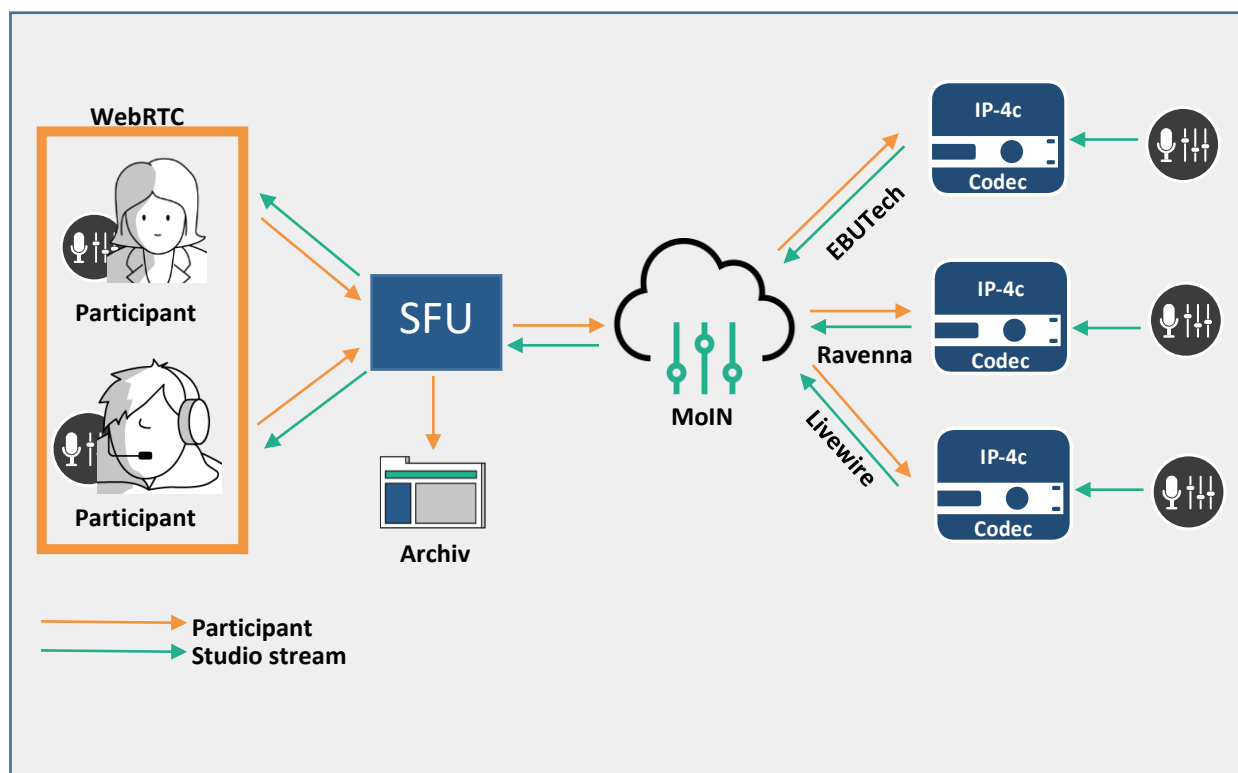


Remote Production Software

Studio Quality Powered by MoIN Audio over IP Software

- ▶ Integrates with custom SIP infrastructures
- ▶ Integrates with studio networks AES67, Dante, Livewire+, RAVENNA, Wheatnet etc.
- ▶ Can be integrated into broadcast production networks.
- ▶ Can be integrated into orchestrating systems.
- ▶ Direct connection to mobile and stationary equipment.

The MoIN audio over IP software solution brings the flexibility to connect everyone from the virtual studio to a real studio.



WebRTC

WebRTC is a real-time communication standard developed by Google and supported by all major browsers.

For optimal audio quality, Opus is used with the highest settings. The video codec is selected based on browser compatibility.

Supported Browsers

- ▶ Chrome
- ▶ Firefox
- ▶ Edge
- ▶ Opera
- ▶ Safari (Some functions of WebRTC are limited)

Audio

Besides Opus, WebRTC supports several other audio codecs.

Codecs

- ▶ Opus (Chrome, Firefox, Edge, Opera, Safari)
- ▶ G722 (Chrome, Firefox, Edge, Opera, Safari)
- ▶ PCMU (Chrome, Firefox, Edge, Opera, Safari)
- ▶ PCMA (Chrome, Firefox, Edge, Opera, Safari)
- ▶ ISAC16 (Chrome, Safari)
- ▶ ISAC32 (Chrome, Safari)

MoIN

The MoIN audio over IP Software can transmit the audio to a real studio. It supports integration with SIP infrastructure as well as AES67, Dante, Livewire+, RAVENNA, Wheatnet, and more.

Recording

In up2talk, the audio from all participants can be recorded on separate tracks. Simultaneously, a downmix recording is created, combining all participants, the connection to MoIN, and any live-played sounds.

Sounds

Sounds can be uploaded by a moderator of a virtual studio in MP3 format. These sounds can be played back live to the participants and are recorded synchronously to each participant's audio track.

Video

The optional up2talk SRT Stream Integration Extension enhances virtual studios by enabling seamless integration of SRT (Secure Reliable Transport) streams. This extension allows users to incorporate high-quality video and audio streams into their virtual studio environments with ease.

SRT Stream Input

- ▶ **Licensing:** Each license permits the addition of 1 SRT stream per virtual studio.
- ▶ **Protocol:** Supports TS (Transport Stream) over SRT
- ▶ **Modes:** Configurable as either Caller or Listener
- ▶ **Recommended Latency:** 250 ms for optimal performance or 2.5x round trip time
- ▶ **Encryption:** AES-256 encryption ensures secure data transmission

Video Stream

- ▶ **Encoding:** H.264 codec support
- ▶ **Resolution:** Up to 1920x1080, providing full HD quality
- ▶ **GOP Size:**
 - At 1920x1080 resolution: Minimum GOP size of 50
 - At 1280x720 resolution: Minimum GOP size of 25



up2talk – Specifications

Audio Stream

- ▶ **Channels:** Each stream includes two stereo audio channels.
- ▶ **Encoding:** AAC-LC codec.
- ▶ **Bitrate:** 256 kbit/s for each stream, ensuring high audio fidelity.
- ▶ **Sample Rate:** 48 kHz for clear and accurate sound reproduction.

Performance

Studio

Up to 6 participants can join a session in a virtual studio and use all functionality.

Scalability

By using Kubernetes, you can scale the number of virtual studios according to your needs.

License Options

Select from our list of licensing options and only pay for the functionality that you need.

Article no.	Name	Description
VER63903	up2talk – Video Input	Extension for up2talk virtual studios that enables seamless integration of SRT streams. Each license allows the addition of an SRT stream with an H.264 video with a resolution of up to 1920x1080 and two AAC-LC 256 kbit/s 48 kHz audio streams. Price per virtual studio per year.

Recommendations

Hardware

Up2talk is a browser-based solution that works on any device with a browser and internet access. Therefore, an external microphone is recommended.

Hosting

Hosting can be managed by the customer or provided as a service by 2wcom.