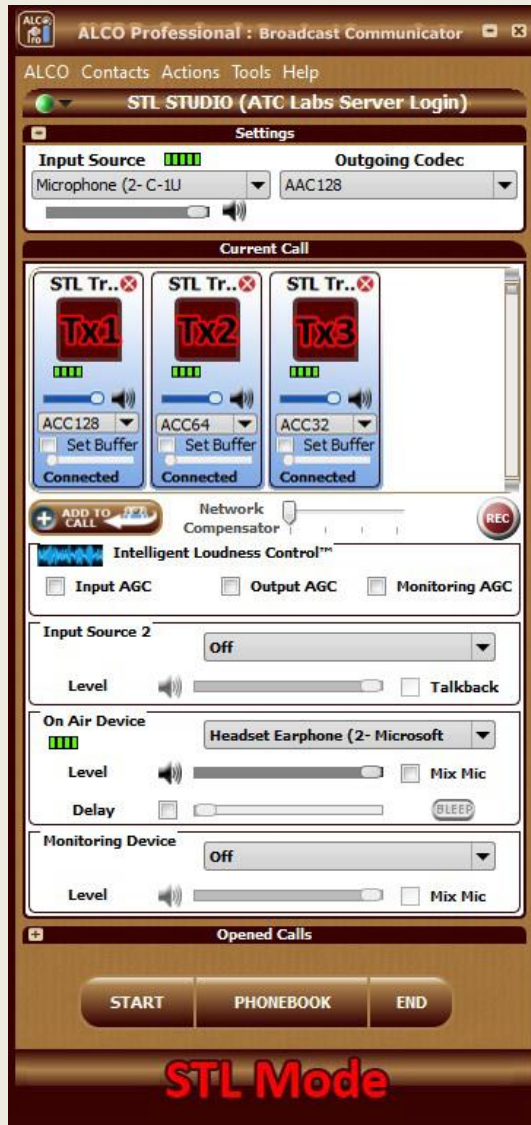
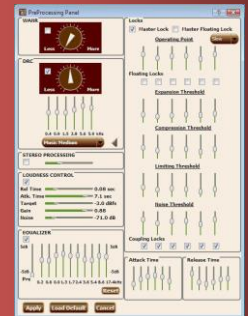


ALCO Professional™

IP Soft Codec for STL & Field Application



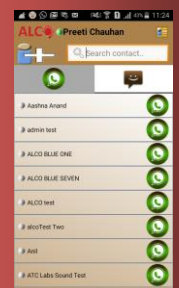
- ★ Bitrates up to 256 Kbps
- ★ Distribute up to 3 Transmitters



BUILT-IN 6 BAND PRE-PROCESSOR



PLAYLIST MANAGER



Mobile APP

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ALCO Professional™ is an integrated IP audio Software Codec (Soft Codec) designed specifically to meet the demand of the broadcast industry for a no-compromise Internet audio link solution that provides CD-like audio quality with low latency and highly reliable connectivity in a point to point or point to multiple application.

Based on proprietary ATC Labs Audio Coding technology that is recognized for its low coding delay and superior error correction, ALCO Professional can be used with existing 2G, 3G and 4G wireless based internet system or wired Internet & hotspots.

ALCO Professional™ can be used in form of STL or Station-Reporter Mode.

STUDIO MODE allows for configuration of the parameters for each transmitter feeds such as source bit rate, audio level, and buffering.

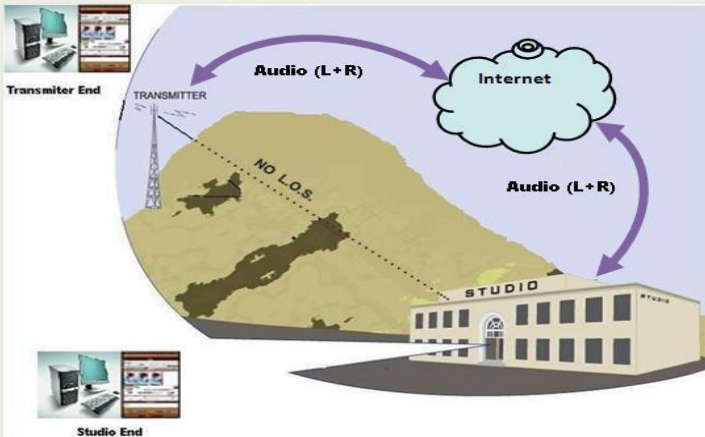
TRANSMITTER MODE configures the system to automatically answer when the STUDIO link is established and then maintain that dedicated connection.

In Station-Reporter Mode for example, be it a sports venue or concert hall, field reporters and talents located anywhere in the world can deliver high quality, crystal clear audio to broadcasting stations in real-time. On the broadcast studios side the software can be configured in a host mode in which multiple reporters can be added to a single call and the host can individually configure the parameters for each reporter such as bit rates, audio level, and buffering.

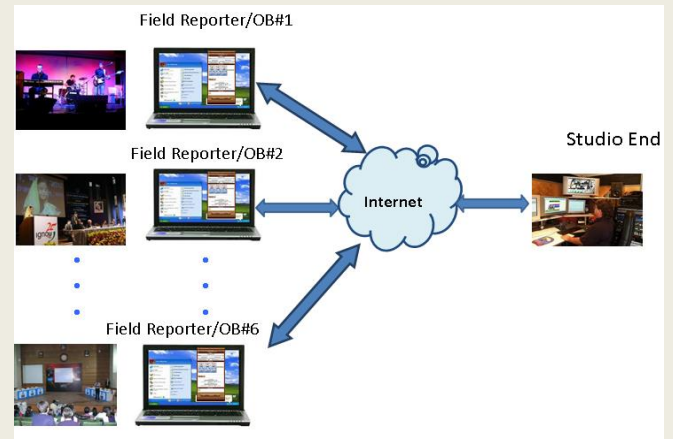
ALCO Professional™ supports advanced features such as program feed recording (MP3/wav), text messaging, feed hold, offline reports & file transfer. The messaging functionality is quite useful for sending instructions to the transmitter in the middle of an active broadcast. Multiple bit rate options - 32/64/96/128/192/256 kbps are supported using ATC Labs proprietary high fidelity low delay perceptual audio compression technology- **Audio Communication Coder™ (ACC), Ultra Low Delay ACC (ULDACC) & AAC.**

Features:

- Better than CD-like Audio Quality: **High Fidelity Stereo/Mono.**
- Extremely low audio coding delay
- High connectivity through firewalls using ATC Labs SIP server; no need for fixed IP addresses.
- Reliable Studio Transmitter link with auto reconnect in case of network interruption.
- Supports a **“Studio mode”** and **“Transmitter mode”**, allowing control over individual Transmitter feed parameters such as **bit rate, volume.**
- ALCO-STL allows modes to be set either as **Studio** or as **Transmitter**. When set in **Studio Mode**, the studio side is provided with the following privileges:
 1. Add one or more transmitter to the feed.
 2. Remove any transmitter from the feed.
 3. Manage settings (viz. volume control, incoming codec and setting buffer) for each transmitter.
 4. Send private message to any of the transmitter.
 5. Send file to all transmitters.
 6. Use a second **“Monitoring”** output in addition to the primary **“On Air”** output and the ability to mix DJ mic into the **“On Air”** Program.



Studio Transmitter Application



Outdoor Broadcast Application

Technical Parameters:

Supported Codescs

Codec	Supported Bitrates
AAC	32, 64, 96, 128, 256 Kbps
ACC	32, 64, 128, 192, 256 Kbps
ULDACC	128, 192 Kbps

Frequency Response (20Hz to 20 KHz)

Better than ± 0.05 dB

Distortion (THD) (20Hz to 20 KHz)

$\leq 0.02\%$

Signal to Noise ratio (20Hz to 20 KHz)

Better than 88 dB

System Configuration:

- Net book/PC with operating systems: Windows 7 and onwards.
- At least 2 GHz processor, 1 GB RAM, minimum 1 GB free disk space on the hard drive.
- Professional soundcard with balanced Input/Output.
- High speed Internet connectivity.

Audio over IP for STL Application

