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ENCO Enables Lip-Synced Live Captions with Powerful New enCaption4 Enhancement

Debuting at NAB Show New York, new integrated video delay capability in automated captioning solution overcomes the latency inherent in captioning live feeds

Southfield, MI, October 8, 2019 – Hot on the heels of very successful exhibits at IBC2019 in Amsterdam and the Radio Show in Dallas, [ENCO](#) is heading to NAB Show New York with a powerful new capability in its award-winning [enCaption4](#) automated captioning system. Exhibiting in booth N355 from October 16 to 17, the company will unveil a new video delay feature that enables lip-sync grade caption synchronization even when transcribing live feeds. Recent enhancements that debuted at IBC last month will also be showcased.

The software-defined enCaption4 platform enables broadcasters and content producers to quickly, easily and cost-effectively add closed or open captions to live and pre-recorded content. Its latest enhancement helps customers overcome an industry-wide challenge in the captioning of live programming. While captions could be aligned with corresponding speech during post production of file-based content, the nature of live captioning has inherently precluded such precise synchronization. Speech-to-text processing of a word or phrase cannot begin until after it has been spoken, and taking the context of surrounding words into account for greater transcription accuracy adds to this latency.

enCaption4's newest capability shatters this limitation, effectively synchronizing the live captions with the spoken words. Already highly regarded for minimizing the latency between speech and its resultant captions, enCaption4 can now delay the associated video and audio by a user-configurable duration to provide lip-sync-like alignment. Two to four seconds of video delay is generally sufficient to provide the desired temporal precision, but by setting a longer delay, customers can choose to expand the audio analysis window to further enhance enCaption4's renowned speech-to-text accuracy.

"Broadcasters have long considered lip-sync-like caption synchronization for live content as the 'holy grail' of closed captioning, particularly for programming such as newscasts and sports," said Ken Frommert, President of ENCO. "We're excited to make this a reality with the seamless integration of video delay functionality within enCaption4. Now, customers can bring in a live feed and get an exceptionally well-synchronized, captioned version back out, all through a single system."

The integrated video delay functionality is a key element of ENCO's automated captioning patent, and can be applied to a wide array of enCaption4 output options. enCaption4 systems incorporating the optional, DoCaption-powered, internal closed caption encoder card automatically output SDI signals with synchronized captions embedded, while other enCaption4 units equipped with SDI outputs can deliver delayed video to external caption encoders. The video delay can also be used to align open captions that are overlaid atop web-destined and NDI output® streams.

NAB Show New York attendees will also see the North American debut of enCaption4's advanced punctuation capabilities. Significantly enhancing the accuracy and readability of transcriptions, enCaption4's improved punctuation now supports characters including full stops, commas, exclamation marks and question marks. The software intelligently detects the context surrounding pauses and trigger words to insert appropriate punctuation and capitalization on the fly, helping viewers better understand not only which words are being spoken, but also how they are being said.

Other recent enCaption4 features on display will include an enhanced scheduling interface; a Web API for third-party integration; the ability to detect changes between multiple speakers even within a single mixed feed; and further improvements to the system's outstanding accuracy and speed.

About ENCO

Founded in 1983, ENCO pioneered the use of computer-based, digital audio and program automation for radio station and TV studios. The company has since evolved its product line to cross all aspects of today's automated broadcast and production workflows, including closed-captioning, visual radio, audio compliance, instant media playout, remote contribution, and cloud-based web streaming. Its two flagship systems, DAD and MOM, bring the industry's best reliability, cost-efficiency and intuitive operation to automated radio and TV operations worldwide. ENCO is headquartered in Southfield, Michigan USA and retains a global distribution network, plus a growing network of partnerships with complementary industry vendors. For more information, please visit: www.enco.com.

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