

## **ENCO to Showcase Automated Captioning Advances at 2019 NAB Show**

*Enhancements to enCaption solution bolster renowned accuracy, performance and machine learning abilities, while new deployment options optimize IP-based workflows*

**Southfield, MI, March 20, 2019** – [ENCO](#) is coming to the 2019 NAB Show in Las Vegas with a bevy of new advances in its award-winning enCaption4 automated captioning solution. Just weeks after introducing new configurations that bring the benefits of captions to radio audiences for the first time, the company will unveil enhancements that further improve enCaption4's renowned performance and deployment flexibility for television broadcasters, OTT service providers and AV professionals. ENCO will demonstrate these developments in booth N2524.

Providing automated closed and open captioning for live and pre-recorded content in near-real-time, the software-defined enCaption4 platform enables broadcasters and content producers to cost-effectively meet regulatory requirements and growing consumer demand. Building on ENCO's patented automated captioning approach, enCaption4 combines machine learning with a neural-network speech-to-text engine to deliver exceptional accuracy with extremely low latency.

The newest enCaption4 advances further enhance these benefits, offering significant accuracy improvements while shortening the delay between spoken words and the corresponding on-screen caption display. Augmenting this elevated accuracy, the new update expands the array of sources from which enCaption4 can learn new vocabulary and names. Already able to access newsroom computer system (NRCS) scripts and rundowns using the MOS protocol, enCaption4 now offers additional forms of newsroom integration. The system can also pull information such as sports team rosters and news articles from third-party websites, growing its dictionary to continuously improve its word recognition and spelling precision.

Complementing enCaption4's ability to distinguish between multiple people speaking based on separate microphone feeds or audio channels, new multi-speaker distinction functionality leverages AI to detect changes between speakers even within a single mixed feed. Improvements to the system's intelligent punctuation and capitalization also boost caption quality.

"While enCaption4 continues to lead the market with its combination of accuracy, speed, efficiency and cost-effectiveness, there is always room to improve," said Ken Frommert, President of ENCO. "The demand for captions continues to increase, not only for complying with accessibility regulations but also for helping audiences understand program narration in noisy public spaces or with the volume muted in sound-sensitive environments. The latest enhancements reflect our commitment to ongoing innovation to address this growing need."

### **New Options and Configurations**

On-premises enCaption appliances have typically output a serial or IP-based data stream of the

generated captions to third-party closed caption encoder hardware, which in turn encodes the data into an SDI output signal with embedded captions. Eliminating the requirement for a separate encoder, ENCO's new optional closed captioning encoder card can be installed directly within the enCaption4 system. This simplifies the signal chain and minimizes equipment maintenance, while its attractive price tag reduces initial equipment costs for customers who don't already own a standalone caption encoder.

Two new enCaption4 configurations enable entirely cloud-based automated captioning deployments for customers who don't require baseband signal I/O. enCaption4 was at the vanguard of automated captioning in video-over-IP workflows based on NewTek's popular NDI® technology. A new dedicated enCaption4 configuration for NDI workflows generates captions from an NDI input stream and keys them directly over the video as an NDI output. Meanwhile, a streaming-focused enCaption4 cloud package accepts encoded IP streams as inputs and outputs captions in WebVTT or raw data formats for display through web-based media players, mobile or OTT apps.

"The flexible enCaption4 software was always able to be hosted anywhere: on-premises or in the cloud," said Frommert. "Traditionally, video and audio I/O requirements such as SDI connectivity have driven the need for on-premises components. But as streaming service providers operate entirely virtually and more broadcasters turn to cloud-based playout, it becomes possible to run the full captioning workflow in the cloud. We're pleased to offer new enCaption4 packages optimized for these evolving deployment models."

### **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](http://www.enco.com).

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