



PRESS RELEASE

ENCO and Digigram Partner to Provide Visiblu[®] Software for IP Audio Distribution with Embedded Automation Control

Southfield Michigan, November 8, 2007: ENCO and Digigram have deployed a software-centric approach to the diverse requirements of routing live streams of audio over IP (AoIP). For the first time, the audio stream contains both the audio payload and embedded automation control for both the source and destination.

The requirement for new technology is demonstrated by the needs of Radio Veritas Asia (RVA), broadcasting daily from 2100 to 0330 UTC on different frequencies from 19 to 49 meter bands in two simultaneous transmissions. RVA produces programs in studios in Quezon City, Philippines and in target area production centers. RVA communicates with 21 countries in Asia in 17 languages.

The scenario is unique. RVA has a number of different language services, all producing programming that share time on multiple shortwave transmitters. The programming is pre-recorded and produced at the studio site, stored on a local file server and sent via data line to the transmitter site, some 150 kilometers away for storage on a local file server there, then played to air.

What makes this situation challenging is that any of the language services must be able to go live on the air on any or all of the transmitters in the case of a major news development without interfering with the operation of the rest of the network. RVA has no audio router or dedicated audio lines between their sites.

ENCO designed a studio system to meet the RVA needs for their studio complex in Quezon City. Their 15 language services along with ingest, voice capture, production and administration feed a programming file server. When the quality control department approves completed programs, and has prepared the appropriate playlists and schedules, the files are marked as approved which triggers an automatic transfer to the remote air server. That server in Palauig is synchronized using ENCO's Gateway smart file transfer program via a data connection. The schedules and playlists then play to the desired transmitters completely unattended. Also, each of the on-air workstations feed two web streams to a Helix Real Audio server for internet radio listeners.

ENCO has been working for some time with Digigram as they have developed and rolled out their Visiblu[®] audio/control over IP product and for this project, Visiblu[®] was the ideal choice. The ability to automatically route audio from any of the language service workstations to any of the transmitters is all accomplished in software. This "STL-on-demand" functionality is completely integrated into the DAD[®] system, without necessitating additional IP codec hardware.

According to Eugene Novacek, President & CEO of ENCO: "Around the world, when broadcasters look for solutions that are more than just 'off the shelf', they look to ENCO Systems, and this was no exception. We were able to work very closely with Digigram to develop a superior and cost effective solution to meet RVA's needs. Our software approach to audio distribution and control will be a real benefit to broadcasters' changing requirements and distribution models."

Philippe Delacroix, President & CEO of Digigram states: "Visiblu[®] is really a Network Audio Operating System, and allows for a great deal of audio routing and processing power with a modular software approach. What was most interesting for this project was the ability to route live streams of audio over IP and to control both the source and destination, but also embed control of the automation system itself, making the desired action of taking control of a transmitter audio stream from one of the language service studios seamless and professional sounding."

Using a set of user configurable buttons within ENCO's DAD[®] interface, an operator at any one of the
(More)



language services can instruct the system to allow that studio to go live on one (or more) of the transmitters (150 km away). The selected on-air DAD[®] system then fades currently playing material and provides a direct feed from the studio to the transmitter. When the emergency feed is complete, pressing another button on the DAD[®] interface reverts to the previously scheduled programming resuming from where it left off.

Further, the system allows for directing the output of a satellite receiver (from Vatican Radio) directly to air without using an audio switcher or router. Visiblu[®] and ENCO's control software once again automatically utilize the audio cards inputs and outputs as distinct and routable audio streams.

Visiblu[®] and DAD[®] combine to provide a seamless method of providing a real-time Studio Transmitter Link on demand... all in software via WAN. The RVA installation is the first commercial use of Visiblu[®] anywhere in the world, but given the success in addressing the needs of this client, it will not be the last.

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About ENCO

ENCO Systems is a leading provider of Digital Audio Delivery and Automation Systems worldwide, headquartered in Southfield, Michigan with offices in the United Kingdom and India.

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About Digigram

Digigram is one of the top three worldwide suppliers of digital audio network solutions for radio broadcast and sound distribution in public places. The company develops digital audio network devices, sound cards and audio processing software.

Headquartered in Grenoble, France, and with offices in Washington and Singapore, Digigram is publicly listed on the Paris Stock Exchange (Code ISIN : FR 00000 35784). The company's commitment to audio technology innovation is demonstrated by the fact that close to 20% of its annual turnover is invested in R&D.

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ENCO Systems, Inc.