



CASE STUDY

Contributed by iMAGsystems



SDVoE Powers Control Room Video Wall

The Thai government Excise Department in Bangkok has moved into an upgraded command and control space based on iMAGsystems' Lightning video-over-IP encoders and decoders. The system integrator for this innovative installation was Bangkok-based Vichai Trading 1983.

Initially the installation was to be based on a software video wall solution. At Vichai's insistence this decision was reviewed due to less than satisfactory experiences related to the software's reliability — it required updates and regular reboots that interrupted the video wall's pivotal role in monitoring the collection and control of customs and excise and other import duties.

Challenge

When approvals arrived for the construction of a new command and control room, authorities were determined to have the best, most reliable and flexible room possible. After a tender process, the department appointed Vichai Trading 1983 as project integrator.

Representatives of Vichai Trading 1983 discussed the project with iMAGsystems VP of International Sales Chris Smith at the 2017 ISE show. Vichai had previous experience working with compressed

video-over-IP systems and felt comfortable specifying the higher-performing, uncompressed, latency-free Lightning product, which is based on SDVoE technology.

Solution

The versatile video wall takes the output of three PC workstations in the room, along with input from a Wolfvision Cynap wireless collaboration system, a Sony Blu-ray player and an Apple TV, and sends it to the 16-panel video wall via iMAGsystems LZ1501E video-over-IP encoders. The 4x3 centre section of the video wall takes the output from 12 iMAGsystems decoders and, via iMAGsystems' on-the-fly, instantly-reconfigurable video wall and multi-view capabilities, can display a whole host of different viewing profiles.

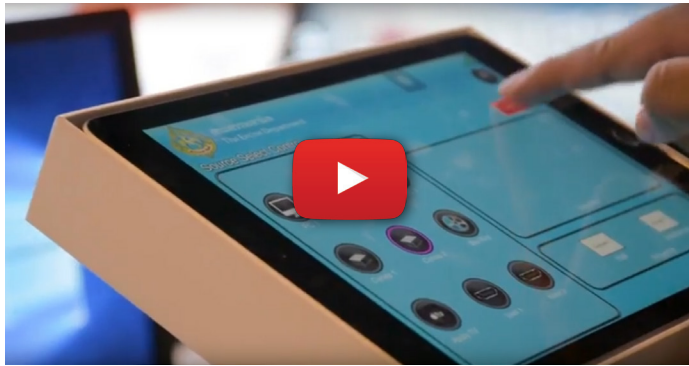
The four additional screens flanking either side of the main video wall are each addressed by an iMAGsystems LZ1502D decoder.

Thanks to an elegant AMX control system interface (via an iMAGsystems LZ500DS API bridge), it's easy to select the source, destination and video

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wall configuration that best suits the purposes of the three command and control room operators.

More than a command and control space, the space can be reconfigured as a teaching theatre at other times.

An operable wall seals off the control room and a Stewart screen drops down for presentation and movie sessions. A 5.1 Cornered Audio sound system and Audio-Technica wireless microphone complete the picture. An adjoining assembly area with a 16,000-lumen Panasonic projector also takes a video output.

Thanks to iMAGsystems' ability to instantly provide a composite multi-view source, the two projectors (in the theatre and in the assembly area), can display a wide variety of sources — from a full HD video for movie night to a tiled feed of nine or more individual sources in a multi-view configuration. The flexibility of this space is formidable.

"Lightning offers uncompressed, latency-free performance. When you're in an environment like this where you're using a keyboard and mouse, that feature is crucial — latency is unworkable," observes iMAGsystems' Chris Smith. "It was a pleasure collaborating with Vichai Trading 1983 on the design of this project. Implementing our Lightning product range we were able to supply a fully-configured video-over-IP system that met all the design requirements of the state of the art project."

"Vichai Trading has an unparalleled reputation in the region for delivering high quality results, often in very complex technical environments," observed iMAGsystems CEO Gerry Raffaut. "It's great to partner with Vichai Trading to deliver on a project such as this using Lightning's unique feature set."

About Vichai Trading 1983

Established in 1983 by Mr. Kittisak Sopchokchai, Vichai Trading 1983 has evolved from a small startup company to Thailand's premiere AV solutions provider group. The company has registered capital of 300 million Thai Baht, more than 150 employees, and distributes the likes of QSC, DIS-Shure, Renkus-Heinz, Audio-Technica, Biamp, Tannoy, Midas, Cornered Audio, Atlona, Lumens, Extron, Wolfvision and Robe in its

region. As a systems integrator Vichai Trading 1983 has enjoyed the patronage of clients such as the Bank of Thailand (conference and theatres spaces), Thai Army Club (ballroom), So Sofitel Hotel Bangkok and the InterContinental Hotel Bangkok (Ballroom). For more information visit vichai1983.co.th.

About iMAGsystems

iMAGsystems, an SDVoE Alliance member, is a dedicated video-over-IP company producing compressed and uncompressed products. Having been involved in networked AV since 2010, the company is one of the first manufacturers to partner with AptoVision and exclusively leverage the capabilities of Semtech's AptoVision BlueRiver chipsets in its award-winning Lightning range of video-over-IP products. iMAGsystems' engineering and sales office is based in Melbourne, Australia, with a growing network of international distribution partners.

Benefits of SDVoE Technology

SDVoE reaches beyond existing standards to provide benefits no other technology can claim:

- A complete ecosystem — SDVoE Alliance members are manufacturers with expertise in signal distribution, display manufacture, IT infrastructure, chip design and AV software. The integrator has dozens of partners to align with and products to choose from.
- A flexible yet simple software platform — the SDVoE API allows rapid development of highly specialized software, custom-tailored to the needs of a vast array of end users.
- A full OSI stack solution — only SDVoE offers the simplicity of a complete top to bottom solution, fully encompassing infrastructure, transport, processing, and a simple control layer.



For more information about iMAGsystems' Lightning SDVoE solutions, visit imagsystems.com.



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