



COMMERCIAL CASE STUDY

Tech breakthroughs at Masaryk University empowers democratic processes with advanced AV solutions and AI



The historic building of Masaryk University (MUNI), located in the heart of Brno, Czech Republic, now houses a technological gem. Since September 2024, the former Faculty of Medicine on Komenského Square has been home to a brand-new, state-of-the-art multifunctional room, designed to accommodate over a hundred participants. With its impressive interior and sophisticated ambient lighting, the space is primarily intended for meetings and voting sessions of MUNI's academic bodies.

Audiopro s.r.o., a leading provider of audiovisual technology and integrated AV solutions, has equipped the space with cutting-edge technologies used by prominent global institutions such as the European Parliament and NATO.

Drawing on lessons learned during the pandemic, Audiopro has implemented a solution that enables structured remote meetings and leverages AI for automatic transcription. Incorporating several technological breakthroughs, this innovative solution is designed to enhance democratic processes and offer a rapid response to emergencies, providing significant benefits not only for academia but also serving as a potential model for other public institutions and services.

THE CHALLENGE

Ondřej Pavelka, System Specialist from Audiopro, shares the challenges encountered during the installation.

“The biggest hurdle was distributing video content with the lowest possible latency to ensure the lip-sync delay remained within acceptable limits. At the same time, we needed to incorporate Dante audio into one of the receivers, which serves as the interface to the AI-enabled cloud where transcription occurs.”

THE RESULT - WYRESTORM MEETS DANTE AV-A



Dante AV-A™

For audiovisual content distribution, Audiopro once again relied on proven technology from WyreStorm. The system is based on WyreStorm's NetworkHD 500 series, specifically designed for environments demanding top-tier image quality and precise sound





synchronization. It supports 4K video at 60Hz with HDR, making it ideal for large conference rooms, classrooms, or any setting requiring high transmission quality and reliability.

This is yet another example of a technological milestone as it features the first live implementation of the newly introduced DANTE AV-A technology, only weeks after its launch.

Ondřej continues, "I had already been considering WyreStorm's NetworkHD 500 Series, even before the release of their ultra-low latency firmware. When the firmware update reduced latency from approximately 16ms to just 4ms and introduced support for Dante AV-A, the 500 Series became an obvious choice. Despite the overall complexity of integrating such a variety of technologies, the WyreStorm solution brought everything together seamlessly."

Michal Černý, Key Account Manager at Audiopro adds "WyreStorm partnered with Audinate, the company behind the Dante protocol for

audio transmission over Ethernet networks. Audinate supplied the NetworkHD 500 series with the latest Dante AV-A licenses, turning WyreStorm units into full Dante devices. This enables us to send or receive audio from any point within the distribution network, entirely digitally, eliminating the need for complex analog cabling."



ABOUT AUDIOPRO

Audiopro s.r.o. has been operating in the Czech market since 2002 and currently is the authorized distributor and repair service for more than 40 manufacturers, supplying professional AV and multimedia technology for use in commercial and residential applications, as well as specialized products for state security and military installation.

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