AVB-Dante-AES67
Complex technology gap bridging for high-end venues
No compromise over latency and seamless management of high-channel count

THE NEED

The Millennium Center, a brand new privately-operated venue in Switzerland hosts a large panel of services, with cutting-edge entertainment facilities and top-notch utilities. This sophisticated structure requires the implementation of high-level networked audio management that incorporates vanguard technology. This demands a complex and acute understanding of large scale audio systems that can handle a high channel count and multiple technologies and protocols, especially for immersive audio experiences in their large cinema hall.

THE CHALLENGE

The technical team at Millennium faces a significant challenge due to the project's complexity. Firstly, the Millennium Center has been equipped with systems operating under different protocols: the large AVB speakers array, counting a high number of channels, should be interconnected with a Dante-operated master console.

Additionally, the audio immersive experience system operates under AES67 protocol, which is not inherently compatible with the chosen AVB and Dante setup.

On top of these complex interconnection issues, the overall system should be able to support a high-count of channels to cater to the dimension of the venue, and also provide a fully-synchronized guarantee, eliminating any potential latency issue.

THE SOLUTION

While these interconnection issues seem to have been initially circumvented, the addition of one-off solutions shows substantial drawbacks: latency issues and channel numbers limitation are still not tackled, leaving the Millennium technical staff with an incomplete system. To address this complex challenge, AuviTran emerges as the solution provider with their unique capability to handle the multiple bridging system featuring AVB/Dante/AES67 integration, a critical requirement for this project. The Millennium Center is equipped with several AuviTran's ToolBoxes and hand-picked AxC-cards to bridge the protocols and technologies gaps as needed: AxC-AVB, AxC-AES67 and AxC-Dante.

AuviTran's ingenious seamless solution not only resolves compatibility issues but also significantly improves the system's performance. As a result, the Lausanne-based venue has become one of the world's first facilities to successfully manage such a complex audio setup, certified under Milan™ AVB standards. This solution allows to deliver an unparalleled immersive audio experience, meeting the high expectations of its discerning audience.

THE BENEFITS

- Milan™ certified reliability
- High channel count
- Scalable, no loss on audio quality or signal integrity
- No latency
- Digital system operates AVB, Dante and Dolby
- Cost-effective advanced audio management

Immersive audio on Millennium unified network

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