

Stade de France - Paris

New audio system for sound reinforcement and emergency

Integrator

Melpomen, France (www.melpomen.net)



Context

Stade de France was inaugurated in 1998. This major arena can host up to 80 000 spectators and thanks to its installation modularity, has been widely used for multiple sports and live events (football, rugby, athletics, concerts...). In 2010, Consortium Stade de France decided to undertake an in-deep renovation of the audio system, achieving the following targets:

- Provide excellent audio quality and comfort for all spectators, whatever the stadium configuration
- Provide the best possible clarity of speech
- Comply with applicable security standards
- Provide full control and audio volume optimization everywhere in the arena
- Allow permanent audio level measurement inside and outside of the arena, for a better real-time adaptation

Audio system description

- Line array system for both sound reinforcement and voice emergency in the arena
- All devices are connected through EtherSound, allowing real-time monitoring of all connected devices, and initiate immediate action in case of failure
- All equipment parameters can be addressed and modified in real time from control room, thanks to supervision software



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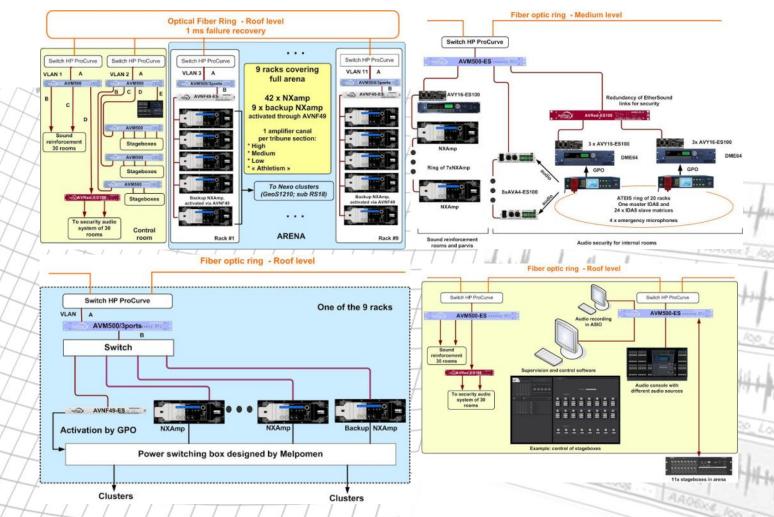
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Products involved

- Nexo line array system with 292 x Nexo GeoS1210 loudspeakers and 20 x Nexo Sub RS18
- 42 x Nexo NXAmp amplifiers connected to Ether-Sound via NXES104 cards
- 14 x AuviTran AVM500 EtherSound matrixes routers
- 9 x AuviTran AVNF49-ES for real time supervision of EtherSound connected devices
- 11 x Yamaha SB168-ES stageboxes
- 2 x Yamaha DME64 and 1xDME24 audio processors
- 1 x Yamaha M7CL-ES console
- Link to ATEIS matrices for audio security in adjacent rooms

Main user advantages

- Excellent audio confort and speech intelligibility for all spectators, whatever the stadium configuration
- Full status monitoring and control of all audio equipment, all connected to EtherSound
- Modern and top quality tools provided to event organizers
 (EtherSound connected stageboxes, concert quality installation)



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