Riedel DIVA+ for Linzer Klangwolke



Riedel Communications supported the Klangwolke festival in Linz with a comprehensive DIVA+ infrastructure. On behalf of Linzer Veranstaltungsgesellschaft (LIVA), Riedel Managed Technology connected mobile and fixed production positions across the Danube River. Riedel’s Easy5G Private 5G network played a central role in this effort, evolving from a solution initially intended for video transmission into a shared wireless infrastructure supporting multiple applications.

Every year, the Linzer Klangwolke transforms the Danube into a sprawling open-air stage for music, lighting, and video. This year’s production featured a large orchestra vessel, eight smaller boats with a total LED display area of approximately 58 square meters, and two aerial drones, each carrying a 32-square-meter LED screen. The elaborate staging also included around 400 spotlights, about 100 loudspeakers, and rooftop lighting positions on the opposite bank of the Danube.

Riedel Managed Technology was responsible for project and network planning, as well as the deployment and operation of the infrastructure in close coordination with the various production departments. DIVA+ integrates Data, Intercom, Video, and Audio into a shared IP backbone and supplements this foundation with capabilities such as Easy5G, cloud media services, and centralized control. At the

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Linzer Klangwolke, the DIVA+ infrastructure combined Riedel MediorNet, Bolero, Artist, SmartPanels, and StageLink with approximately 2.5 kilometers of fiber-optic cable, 13 network switches, and an Easy5G network. This network comprised an Easy5G core at the front of house (FOH), base stations along the Danube, and a total of 14 receivers on the boats and onshore.





Easy5G transmitted video content from the media server aboard the orchestra vessel to the LED walls of the eight smaller boats. In addition, the network carried sACN data for controlling remote lighting positions, as well as timecode and audio signals from the FOH to the orchestra boat, with the timecode ensuring synchronization of the lighting and video content. In the opposite direction, Easy5G transmitted the camera feed – mixed directly on board – to shore, where it was handed off to the outside broadcast (OB) truck for the ORF livestream. The system’s flexibility became evident when a lighting position connected via a separate wireless link experienced connectivity issues. Using a 5G router and switch, the Riedel team quickly integrated the position into the existing Easy5G network.

“For a production that spans the Danube, close coordination among various production teams is crucial,” said Katrin Fink, Production Manager for Klangwolke at LIVA. “Riedel Managed Technology was involved in the planning from the very beginning and worked with us to implement additional requirements. With Easy5G, we were able to run different applications over a shared wireless infrastructure. This

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opens up new possibilities for us to flexibly integrate mobile and remote production positions into our productions."

For communication between the FOH teams, the boat crews, and other production personnel, Riedel relied on Bolero in combination with Artist Intercom, as it has since 2019. A total of 63 Bolero beltpacks, 25 Bolero antennas, and seven SmartPanels were deployed. The show caller's SmartPanel not only facilitated communication but also enabled the display of timecode via the Linear Timecode App. MediorNet MicroN handed off the program feed to the OB truck, while five StageLink Network Stream Adapters were used for audio monitoring applications.

"The original requirement was to transmit video wirelessly from A to B. The real added value emerged when other production teams could use the same infrastructure," said Florian Rau, Program Manager for Global Events, Riedel Communications. "That is precisely the strength of DIVA+ with Easy5G as a shared wireless layer: instead of planning a separate wireless link for each application, we can integrate additional requirements into the same network. This simplifies frequency coordination and equipment planning and provides greater flexibility for complex live productions."

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