R2D2-V2
Recording & Replay of Digital Data

R2D2-V2 is Frequentis Comsoft’s state-of-the-art system for legal recording, post-event analysis, technical investigation and training purposes.

The Solution

The increasing need for legal recording, incident analysis and technical investigation requires a reliable recording solution. R2D2-V2 is Frequentis Comsoft’s state-of-the-art system for the recording and replay of surveillance and audio data, as well as screen content. In combination with Frequentis Comsoft’s analysis display RMD-V2, it can be used for post-event analysis, debriefing and investigation.

R2D2-V2 is an innovative solution, developed according to industry experience and customer requirements. It provides a modular and open architecture enabling easy and comprehensive integration.

User Benefits

R2D2-V2 features a distributed architecture consisting of central server units and client applications running on a local network. Its modular and scalable architecture enables R2D2-V2 to integrate perfectly into any environment and thus provides the necessary growth potential for future extensions and challenges.

R2D2-V2’s hardware is based on commercial off-the-shelf components. This results in reasonable initial investment costs and guarantees continued support and maintenance. R2D2-V2 is a secure long-term investment for air traffic service providers worldwide.

Highlights

- Recording of any kind of digital data
- Replay of audio, surveillance and video data
- Fully synchronised replay of recorded data
- High scalability in number of channels and recording capacity
- Support for analogue, digital E1/T1 audio, raw video, LAN based data
- Open interface for third party data access
Key Features

Data access & replay: R2D2-V2 offers an http interface for data retrieval. Any client can use this interface for data download of selected time ranges. The replay module provides synchronised replay of data streams of different types and sources for delivery to any analysis, debriefing, test or training systems. Mixing of audio and video information from selected data sources for replay and export purposes is also supported.

Data forwarding: For monitoring needs, R2D2-V2 features a data forwarding functionality. Input audio or surveillance data can be forwarded in real-time to an output device, such as a sound system or a surveillance data display.

Data integrity & security: All information received at the input interfaces is precisely time stamped and stored by the recording engine. To ensure uninterrupted recording, R2D2-V2’s recording function works independently from other system functions. The use of RAID technology, together with the stable and high performance Linux operating system, guarantees data availability and integrity.

Redundancy: The availability of the system is scalable since two or more redundant R2D2-V2 systems can be operated in parallel.

References

Airport of Luxembourg: redundant R2D2 recording system for surveillance and audio data recording including RMD analysis tool.

armasuisse, Switzerland: R2D2 recording system and RMD-V2 analysis tool at five military airfields, including local and remote, system-wide monitoring.

Skyguide, Switzerland: RRR radar recording and RMD analysis system with integration of third party audio recorder.

FMV, Sweden: Surveillance data recording and RMD-V2 analysis tool.

DGCA, Indonesia: R2D2 audio and surveillance data recording with RMD analysis utility.

CAAS, Singapore: R2D2 recording system.