WiFi & Infotainment for Trains

A project with Abellio Mitteldeutschland and Unwired Networks

The starting point

Abellio Rail Mitteldeutschland operates the Dieselnetz Sachsen-Anhalt (DISA; diesel network Saxony-Anhalt), running 54 train sets of the Alstom Coradia LINT type. They went into operation at the timetable change in December 2018. The competent authority, NASA, required that the vehicles were equipped with a high-performance passenger WiFi and information portal. By implementing the DISA project, Abellio Deutschland GmbH wanted to create a group standard for on-board networks, WiFi and information systems in the vehicle.

The solution concept

With the Unwired Cloud Unwired Networks automatically provides all required functions throughout the fleet. The system's quality assurance is in the hands of Unwired Networks.

Unwired Networks cooperated with the customer and partners Interautomation

"In Unwired Networks, we found a single, highly competent contact partner for a variety of different services, which has a profound knowledge of the railroad sector and outstanding project management skills."

– **Andreas Schymura** | Project Director and information systems and processes consultant at Abellio

and NetModule to create a comprehensive concept of hardware, passenger WiFi, route information and entertainment portal, as well as network management.

Abellio Mitteldeutschland GmbH

Abellio Rail Mitteldeutschland GmbH is a subsidiary of the private railroad operator Abellio Deutschland.

Under the title of A.R.I.S. – Abellio Rail Information System – the Unwired Cloud made it possible to roll out an overall solution in a consistent quality across all companies of the group with considerable time and cost savings. All functions created for the DISA project are thus available as a standard solution for existing and future networks of the group.

The Unwired Cloud combines several components in the overall package:

Passenger WiFi

» High-performance passenger WiFi

» Barrier-free internet access through a login portal without registration

» Data volume and bandwidth can be controlled per user

Passenger information and entertainment portal

» Current news as text and video, short stories, podcasts and eBooks

» Real-time route information with connection details

The WiFi solution for your passengers!

» Connection to the InLineWeb ITCS system of Interautomation

» Automatic import of news and jobs from abellio.de

Network management

» Central device management and monitoring

» Flexible network configuration via cloud

High-performance hardware: NB3800 router by NetModule, outdoor train antennas by Antonics

» Support for multiple local networks in the vehicle

» Bandwidth management for passenger WiFi

Failsafe network

» Parallel use of up to four mobile phone connections

» Fail-safe connection through transparent cable bundling

Certified hardware

» Hardware, such as routers, access points, cables, antennas with complete Unwired Cloud integration, certified to EN50155

» Installation requires no configuration

» Ongoing automatic software and security updates across the entire contract period

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