



Observing and Securing National Railway Critical Infrastructure

Driving Meaningful Network Intelligence
from Next-Generation Network Visibility

CUSTOMER

The Deutsche Bahn AG (DB); is Germany's national railway company, and a state-owned enterprise by the German government. It is the second-largest transport company in Germany. DB provides both long-distance and regional transport, serving about 132 million long distance passengers, 1.6 billion regional passengers, and 222 million tons of cargo. It's 2022 reported revenue was Euro 56.3 billion. DB uses a vast and high-speed network connected telemetry data to central control rooms. There are also onboard WiFi and entertainment services relying on network connectivity. DB also uses AI for several initiatives such as for planning of materials, smart control of S-Bahn services, digitalization of maintenance, and dispatching. Hence digital and AI transformation is on top of the CIO's agenda.

“Deutsche Bahn needed a dependable and authentic network visibility platform to strengthen our overall security posture of our public transportation critical infrastructure against cyberattacks and disruptions. NEOX Networks addressed the challenge through their Network Visibility Platform. We were able to security access the network traffic to feed into our threat detection, incident response, and forensics tools, hence providing us with complete visibility needed to run an agile and secure business. We are extremely satisfied with our choice and highly recommend NEOX Network Visibility Platform for Observability and Security for any business-critical environment.”

Uwe Seeharsch, System
System Architecture Expert



CHALLENGE

Critical infrastructure such as transportation remain a top target for cyberattacks. Additionally, modernization, and digital and AI transportation add more complexity and blind spots to the infrastructure, increasing risk for service disruption and even safety. Therefore, monitoring the IT and IoT network in such environments is critical from performance and security perspectives. DB's vast network of trains, ticketing, switching, and on-board services, all rely on low-latency network, and they needed a highly dependable network visibility solution for both service observability and security delivery.

SOLUTION

Neox Networks is the expert in tapping and brokering high-integrity network data from on-premises or multi-cloud environments. DB chose NEOX Network Visibility Platform among all other vendors, to observe its mission-critical infrastructure. The solution involved NEOXPacketRaven® Hardened TAPs deployed across the network strategic locations. PacketRaven TAPs extract the network wire data and feed into central location in the Network Operations Center where it is fed into the performance monitoring and security tools. Critical decisions are made every minute based on the real-time network intelligence, impacting real lives.

VALUE

DB picked NEOX based on a clear value and solution differentiation such as:

- Brand reputation and wire-speed performance of the product
- Built-in data-diode functionality for enhances security against attacks
- Unbeatable economics with personalized service and support

Neox Networks provides Next Generation Network Visibility for IT & OT Observability and Security. The result is strengthened cybersecurity, hybrid-cloud application observability, and business continuity, by integrating the network intelligence and real-time data-in-motion. Learn more at <https://www.neox-networks.com/en/>