



CASE STUDY

Modern Wi-Fi for the newly opened Steam Locomotive Experience in Germany

Overview

In August 2024, the "Dampflok Erlebnisswelt" opened in Germany, a museum in a historic building that is all about steam locomotives and railroads. The particular highlight is a historic steam locomotive built in 1914. Locomotive 92 739, model T13 of the Union type, is divided into three sections along its longitudinal axis and is accessible for the visitors. Interactive media stations with photos, videos and reports from contemporary people invite visitors to join in and discover.

To ensure that the Steam Locomotive Experience also offers its visitors and employees modern internet connections in all areas of the museum, MUGLER SE was commissioned to set up a Wi-Fi network. Following positive previous experiences, products from Cambium Networks were implemented.





The challenge

The new Wi-Fi network was to provide all areas of the Steam Locomotive Experience with stable and reliable internet connections. In the newly opened Museum in Meiningen, Germany, fast connections with high bandwidths were to be guaranteed in all areas, which cover 900 square meters over four floors and also include adjacent outdoor areas. Another important requirement was to set up different networks for visitors and employees. The network also had to be scalable and easily expandable if necessary in the future. The fact that the building housing the museum is a historically important site that was opened in 1914 and is protected as an historic building with different wall and ceiling structures also had to be taken into account.



Wi-Fi is mandatory for a modern museum nowadays.

The Wi-Fi network meets all of our requirements. The most important functions for us are that the network is easy to operate, only needs little maintenance and is extremely reliable. The connections are fast and stable with high bandwidths. We are particularly pleased that we have implemented a scalable solution that can be easily expanded for future requirements. With MUGLER SE as our implementation partner, we have found a competent and pleasant business partner. We are therefore open to future collaborations on new projects."

– Michael Durniok, Head of Information Technology at the City of Meiningen

The solution:

In the "Dampflok Erlebniswelt" in Meiningen, Wi-Fi access points for indoor (XE3-4 and XV2-21X) and outdoor areas (XV2-2T) were installed as well as switches (cnMatrix EX2052-P and EX2016M) and the NSE 3000 security solution.



The results

The Wi-Fi network turns the newly opened Steam Locomotive Experience in Meiningen into a modern museum with an interactive offering. The Wi-Fi connections fully meet the previously formulated requirements and objectives, are reliable and have a high bandwidth. The Network Service Edge solution NSE 3000 is also used for the firewall. Initially, there were connection problems due to port scans by the NSE 3000, but these were quickly resolved by overrides. The network can be managed easily with the cnMaestro management platform.

About Cambium

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences, and device connectivity, with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We deliver connectivity that just works.