

RUCKUS® Wi-Fi: Laying the foundations for smooth European School Frankfurt operations and digitally enabled learning environments

The **European School Frankfurt (ESF)** is one of 13 official European Schools in six countries. Its aim is to provide multilingual and multicultural education for children from kindergarten to secondary school. Since opening in 2002, the school has provided an international learning environment for around 1,600 students. In 2018, the program was expanded to include a Spanish section, complemented by German, English, French and Italian.

Respectful and open interaction is the school's mission statement. The diversity of the school community is enriching and strengthens cohesion.



Modernizing Wi-Fi network to meet digital education demands

The increasing use of mobile devices by teaching staff and students, along with the heightened deployment of digital solutions within educational settings, has led to mounting pressures on the existing Wi-Fi® infrastructure. In addition, the administrative organization and its processes also had to function reliably. In light of these considerations, it was deemed rational to initiate a program of modernization with the objective of enhancing the stability, performance and scalability of the network to ensure its long-term resilience.

The latest generation of RUCKUS solutions delivers robust network reliability

The primary objective of this project was to modernize the existing Wi-Fi infrastructure to enhance performance, reliability, security, and compatibility with the end devices used and the educational equipment in the classrooms. Seamlessly integrating the digital infrastructure into both the educational and administrative functions of the school was a key priority.

To achieve these goals, the implementation of the latest generation of RUCKUS access points (APs) and RUCKUS controllers has established a robust foundation, ensuring the network can meet both current and future requirements.

A key cooperation able to maximize the technology impact

The modernization of the WLAN network was successfully accomplished through a collaborative effort between the European School Frankfurt and Häusler KG from Rastatt. Häusler KG, an experienced system house specializing in digital infrastructure—and an accredited partner of RUCKUS Networks—played a crucial role in this project.

During the project, particular emphasis was placed on ensuring that ongoing school operations were not disrupted. The modernization was completed on schedule and without disrupting everyday school life.

“The modernization of the Wi-Fi network at the European School Frankfurt, based on RUCKUS technologies, demonstrates the importance of regular investment in a future-proof digital infrastructure. When executed in collaboration with reliable partners, a modernized infrastructure ensures smooth school operations while fostering the growth of digital learning environments and diverse pedagogical practices.”

Oliver Kurz
European School Frankfurt IT
system administrator

The new infrastructure deployed is based on the latest RUCKUS technology, which is known for its high performance and reliability. The modernization encompassed the following elements:

- Replacing the previous APs with powerful, scalable, cutting-edge RUCKUS APs able to handle high-density environments like this school—optimizing reliable connectivity even during peak usage times such as during classes or events. With its BeamFlex+® adaptive antenna technology, students and staff experience consistent and reliable connectivity, which is crucial for uninterrupted access to educational resources and online learning platforms.
- Integrating a centralized WLAN controller for ease of management and monitoring of the network, allowing IT staff to monitor and optimize network performance efficiency.

The efficacy of these changes is evident in the positive response from pupils and teachers, who report the benefits of a stable and fast Wi-Fi that enables digital applications to be used at all times and across the entire school campus. Concurrently, the school administration is reinforced by the network’s exceptional reliability, thereby facilitating uninterrupted school operations.

The importance of a future-ready investment to meet what’s next in digital learning

Oliver Kurz, European School Frankfurt IT system administrator, highlights the seamless implementation and the substantial enhancement in network performance: “The modernized RUCKUS network fully meets our expectations. We are now well positioned to both organize school operations efficiently and actively support the digital transformation in the classroom.”

The modernization of the network is a key step in optimizing everyday school life at the European School Frankfurt and meeting the requirements of the digital future.

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