

# Wi-Fi optimization at Gymnasium Wilhelmsdorf

**An unreliable Internet connection, long website loading times, classrooms without Wi-Fi – the Wilhelmsdorf high school in Baden-Württemberg was unhappy with Wi-Fi availability and network coverage on the school campus. As part of the initiative to digitalize schools, the Digital Pact, it quickly became clear that the existing Wi-Fi infrastructure would not suffice. So, the task was to implement a new network and install new, more powerful components to ensure high-quality, full-coverage school Wi-Fi.**

## High quality for a modern educational offer

For a high school, the focus of this kind of project is clear: to ensure the highest possible quality and most modern educational offerings for all grades, ideally in the long term, without too much additional expense, and within a financially calculable framework. So it's all the better if the support and maintenance of the IT infrastructure is taken over by an education partner. High quality and reliability of network components and service, as well as scalability and flexibility in order to be prepared for the future were of particular importance to Wilhelmsdorf high school.

After a thorough examination, LANCOM Systems was chosen as manufacturer. The German expert for school networks was able to convincingly unite the high demands in a comprehensive overall package of LAN, WLAN, and necessary accessory products combined with convenient cloud management. LANCOM was supported in this by meco IT GmbH, a full-service IT provider with extensive experience in the technical equipment of educational institutions and companies.

## Installation and project management from a single source thanks to LANCOM Partner

meco IT GmbH supported the implementation of the project by installing and configuring the new LANCOM products and taking over ongoing service tasks such as management, monitoring, and troubleshooting in the network as well as expansion and scaling tasks.

The products were chosen primarily for their high-quality standards, reliability, and diverse scaling options. In addition, LANCOM was already known to Wilhelmsdorf high school from an earlier collaboration and had already left a lasting positive impression, which was reinforced in the new project.

## A stable network across the entire school campus with the LANCOM Management Cloud

A particular highlight of this school network project is that the installation of the IT infrastructure was carried out exclusively by LANCOM partner meco IT GmbH. The two challenges of optimum Wi-Fi coverage and stable network availability on the entire school grounds were mastered without any problems. For the first time, the new network at the high school is controlled and

managed via the LANCOM Management Cloud – an added value that cannot be denied due to the convenient centralization of network management and monitoring. Configurations and adjustments can be automated remotely by meco IT GmbH, and errors and faults can be quickly corrected with the help of intelligent troubleshooting.

The students at Wilhelmsdorf high school are now learning in an environment that has created the best conditions for modern, digital learning and has a high-performance school Wi-Fi. That makes school so much more fun!

---

## Project Profile

**Project supervision:** Marc Kulmann

**Customer:** Gymnasium Wilhelmsdorf

### Project

The Gymnasium Wilhelmsdorf is a secondary school with 560 students and 60 teachers in the community of Wilhelmsdorf in the southeast of Baden-Württemberg. In order to ensure a qualitative and modern educational offer for all grades, a modern and area-wide WLAN network was to be established at the school.

### Components deployed

The following components were used for the equipment:

Access Points: LANCOM LX-6400, LANCOM LN-830, LANCOM LN-830U;

Switches: LANCOM GS-3152XP (in the future: LANCOM GS-3652XUP), LANCOM GS-3126XP, LANCOM XS-6128QF;

Accessories Switches: LANCOM SFP-SX-LC10.

### Partner



The LANCOM partner meco IT GmbH is an internationally operating system house which supports its customers from IT strategy consulting to the handling of day-to-day business. With over 20 years of experience, meco IT GmbH plans, installs and monitors IT infrastructures for its customers from a wide range of industries, such as the public sector or the clothing trade.

### Contact details

Gymnasium Wilhelmsdorf

Pfrunger Straße 4/2, 88271 Wilhelmsdorf

kontakt@gymnasium-wilhelmsdorf.eu, www.gymnasium-wilhelmsdorf.de