



Customer

The **Freiherr-vom-Stein school** in Neumünster, Germany, is guided by the principle that the concept of the comprehensive schooling is a great opportunity to redesign education in the face of fundamental challenges. On this basis, the school promotes self-regulated learning with digital media that combines a learning platform and a "bring your own device" scheme for pupils of all ages and in all subjects.

Concept / Requirements

- **Seamless Wi-Fi coverage** for the classrooms and outdoor areas
- **Central management** of the wireless network
- **Parallel operation of base stations in the 2.4 and 5 GHz frequency bands** to simultaneously integrate old and new devices into the school network

Solution

- **Virtual coverage** modeling the school for optimal positioning of the Wi-Fi access points
- Use of access points, that **supports parallel operation at 2.4 and 5 GHz with up to 450 Mbps (IEEE 802.11a/g/n)**
- **Management and configuration by central WLAN controller**
- Access to Wi-Fi and the school's learning platform via **individual user credentials and MAC filter**

Benefits

- **Unobtrusive mounting** of access points on suspended ceilings
- **Future-proof network** offering high-performance Wi-Fi and serving a variety of different devices
- **Flexible use of digital media in the classroom** thanks to seamless wireless coverage
- Working with digital media opens up **new prospects for professional and creative learning**



Infrastructure

1 x LANCOM
WLC-4025+

29 x LANCOM
L-452agn dual
Wireless

Various antennas for
indoor and outdoor
areas



Freiherr-vom-Stein-Schule
Gemeinschaftsschule der Stadt Neumünster