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