



## ♥ CUSTOMER PROFILE

### NAME:

Primary School No. 3 with a Pre-school Division in Ustroń

**INDUSTRY:** Education

**USERS:** Between 30 and 150

**LOCATION:** Ustroń, Poland

**YEAR OF PROJECT:** 2019

**IMPLEMENTATION PARTNER:** INFOLOGIC S.C.

Primary School no. 3 with a Pre-school Division is an educational institution currently attended by 112 students, the school staff consists of 28 teachers. The school occupies a one-storey building from 1968, covering 1700 square meters, which includes 10 classrooms, a common room, a kitchen with facilities, several smaller rooms and a gym.



## ♥ CHALLENGE

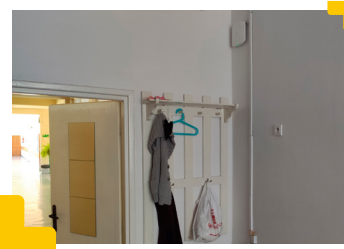
Internet access in classrooms makes teachers' work significantly easier and give them opportunity to use digital interactive materials to diversify classes. The school's equipment includes 6 multimedia boards and 2 educational robots. The institution also uses the UONET+ electronic register.

The school is now connected to the Internet with a capacity of up to 40Mbps through the telephone line. The facility is currently changing the ISP, in the coming months it will be connected to a high-speed fiber optic network under the OSE program. There was only a rudimentary network infrastructure in the building, covering a secretary's office, headmaster's office and a computer room.

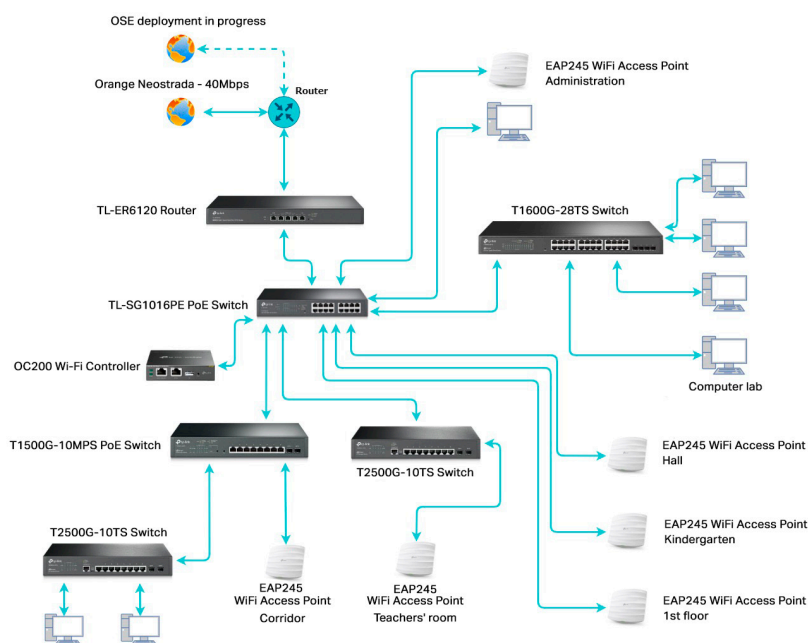
The aim of the implementation was to deploy the LAN and WiFi infrastructure to provide Internet access in all classrooms and the teachers' room. Due to the upcoming modernization of the Internet connection, the proposed wireless and LAN network solution must have been of a high throughput. Since the school introduced the e-register, it was necessary to completely separate the network for teachers and school administration from the network used during classes.

## ♥ SOLUTION

It was decided that TP-Link's devices should be used for the implementation. "Very good price-performance ratio was crucial for the final decision. Long warranty period of the offered devices was also important for the client", says Adam Olszar, the founder and owner of InfoLOGIC, the company responsible for the implementation. TL-ER6120 Router was a gateway to the school's network. A 24-port T1600G-28TS Switch and two 8-port



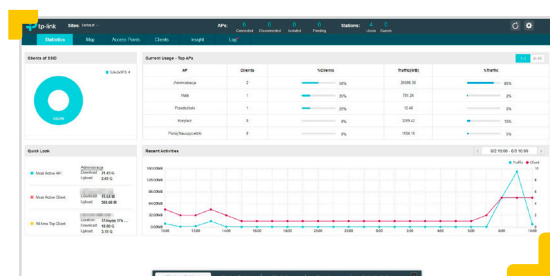
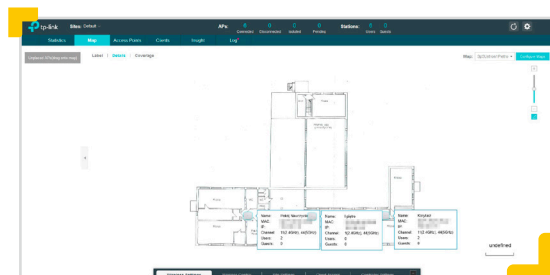
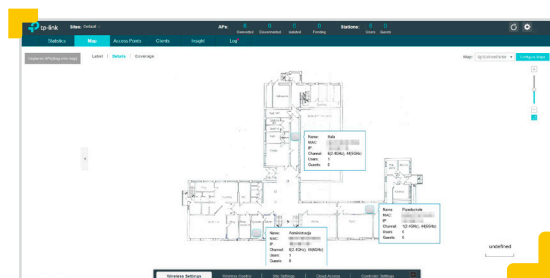
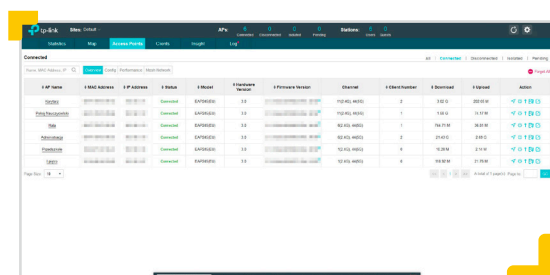
T2500G-10TS Switches were used to connect computers and other devices in the administrative rooms and a computer room. Equipped with gigabit Ethernet ports, the devices provided performance adequate for the planned modernization of the Internet connection.



To make WiFi available in all classrooms, secretary's room and teachers' room, six EAP245 Omada Access Points were installed. The product was chosen as it provides high performance dualband WiFi with speeds up to 1900Mbps and the possibility to create many SSIDs bound to VLAN. The latter functionality helped to completely separate the network used to handle the electric register from the network accessed by students, keeping sensitive data fully secure. PoE support provided by TL-SG1016PE and T1500G-10MPS Switches allowed for the quick installation of access points and significantly reduced the implementation costs. The wireless network is managed with OC200 Controller.

## ▼ RESULTS

Deployment of the WiFi network created new opportunities for teachers in terms of using multimedia content during classes. The school decided to purchase a license for educational software, including Didakta and Mozabook. Using interactive contents on multimedia boards and educational robots during classes has become an integral part of the teaching process at school. "Electronic register works quickly and without lags, contents load smoothly throughout the building. The network is ready to handle a large number of devices. The possibility to manage the network via the cloud using a mobile application is a great added value. Thanks to this solution the administrator does not have to be present on-site to diagnose the network connection or change the network settings", summarizes the implementation Damian Janik from the InfoLOGIC's Installation and Service Department.

Device	AP	Client	Uplink	Downlink	Throughput	Signal
AP1	1	1	100%	100%	100%	100%
AP2	1	1	100%	100%	100%	100%
AP3	1	1	100%	100%	100%	100%
AP4	1	1	100%	100%	100%	100%
AP5	1	1	100%	100%	100%	100%
AP6	1	1	100%	100%	100%	100%

