



TP-Link is Improving the learning Quality with Reliable & Intelligent Infrastructures



▼ END-CUSTOMER GENERAL PROFILE

Name: Europe Schule Kairo

Industry: Education

Capacity: 35 classes +
10 teachers room
Students and staff: +1000

Location: 5th Settlement,
New Cairo, Cairo, Egypt

▼ Used Products:

• **Load Balance Router:**
1 x TL-ER5120

• **Jetstream Switches:**
8 x T3700G28-TQ
4 x T1600G28-PS

• **Access points:**
60 x EAP-225Wall
10 x EAP115

• **Accessories:**
8 x TXM-431SR
3 x TL-SM311LM

▼ BACKGROUND

Europa-Schule Neu Kairo is a Private International Bilingual School (German-English) offering a comprehensive and international education in both languages simultaneously starting with Baby-class up to the IB Diploma Programme.

The School is supported by 19 years of experience located in the heart of new Cairo inside the Mivida compound, one of the luxurious green residential areas in New Cairo", very close to the American University and to the German University in Cairo as well. The new campus has many facilities designed according to the modern standards, which have positive impact on the academic and social life of the students.

▼ CHALLENGE

The school management asked a full WIFI coverage, technologically advanced wireless solution that was cost effective and allowed for network monitoring. The solution has to be easy to deploy and manage due to limited staff. The wireless signals needed to cover all the buildings of the school and high school with 35 classrooms and 10 teacher's rooms. Also can support each needed separate log-in credentials.

▼ SOLUTION

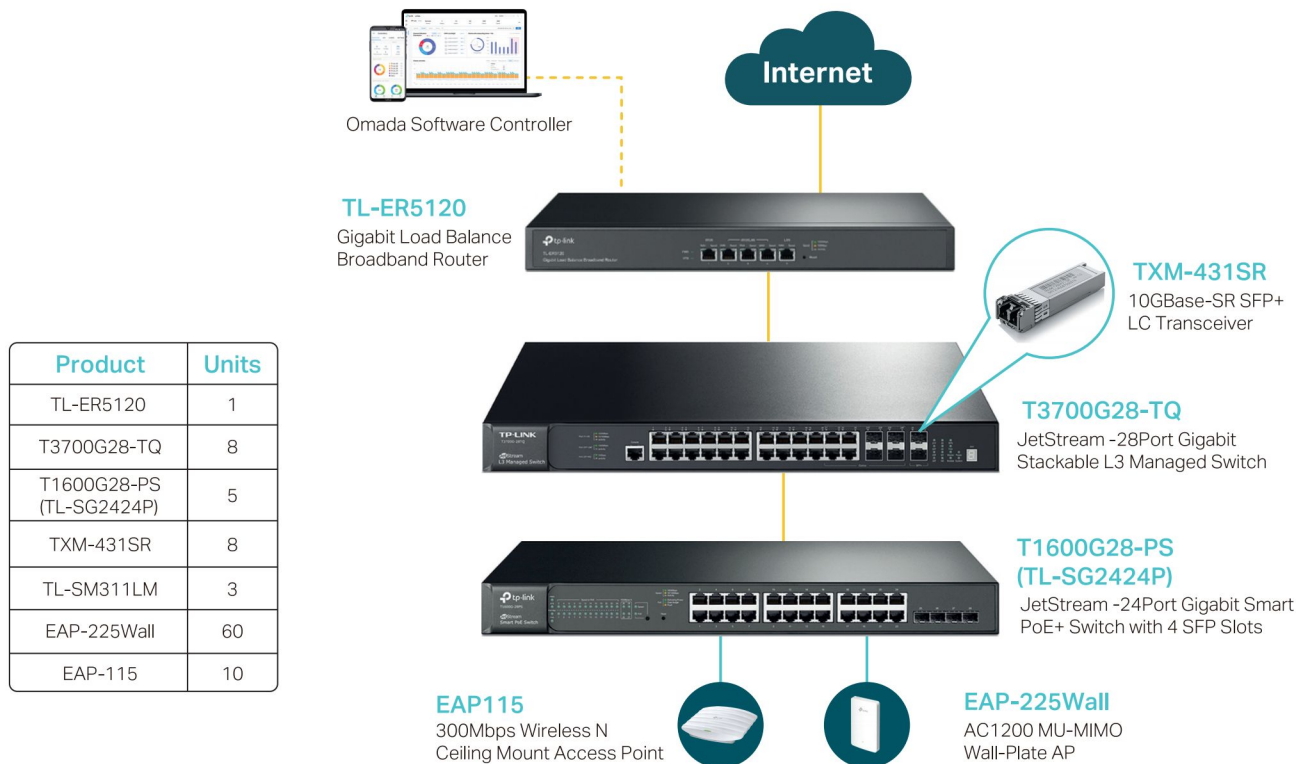
The school management asked a full WIFI coverage, technologically advanced wireless solution that was cost effective and allowed for network monitoring. The solution has to be easy to deploy and manage due to limited staff. The wireless signals needed to cover all the buildings of the school and high school with 35 classrooms and 10 teacher's rooms. Also can support each needed separate log-in credentials.

• Network Distribution:

- There is one Load Balance router TL-ER5120 is established with internet connection and it's connected to T3700G28-TQ.
- 8 * T3700G28-TQ are to each other's fiber cables by connected to the internet router for distributing the network and also connected to the Software Omada controller.
- TXM-431SR and TL-SM311LM are connected to T3700G28-TQ for converting fiber ports.
- 4 * units of T1600G28-PS are connected to T3700G28-TQ for providing Wall EAPs and Ceiling mount EAPs with POE supply.
- 60 * EAP-225Wall and 10 EAP115 Ceiling Mount Access points are distributed and connected to 5 units of T1600G28-PS.

• Network Management:

- Omada software controller Centralized Management Platform is connected to the network for monitoring and managing 60 Wall EAPs
- The school administrator can configure and automatically synchronize unified wireless settings to all EAPs in the network, upload floor plans to visualize and optimize network resource deployment. Also It makes network administration more effective and efficient with batch firmware updates.



Reference Table

- Copper Ethernet PoE (Cat6 & Cat5E)
- Copper Ethernet Cat5E

The Solution Topology of Europe Schule Kairo For distributed network



TXM-431SR



TL-ER5120



T3700G28-TQ



T1600G28-PS (TL-SG2424P)



EAP-115



EAP-225Wall

♥ BUSINESS RESULTS

- 5 TP-Link POE switches provide there's no need to install additional wiring in the building. Simply plug in existing Ethernet cables and you're ready to go.
- High-density deployment in the areas with high density, such as classrooms and dormitories.
- An EAP-225Wall in each room guarantees a strong wireless signal and allows students to enjoy their own private Wi-Fi network. Also compact, low-profile design fits discreetly with any existing interior style.
- 60 EAP-225Wall deliver combined dual-band speeds of up to 1200Mbps. Armed with the latest 802.11ac Wave 2 MU-MIMO technology, they can exchange data with +1000 students at the same time to allow more devices to connect without any slowdown to the network.
- 10 EAP115 ceiling mount for teacher's room, It's a perfect solution.
- Free Centralized Omada Software Controller makes it easy to manage and monitor the whole Omada network of 60 Wall EAPs, 10 EAP115 and +1000 student in real-time, while cloud service enables remote and secure access no matter anywhere.
- TP-Link Switches provide High-Performance and cost effective solution.

BENEFITS FOR CUSTOMERS

- The school administration published the concept of ELearning books and ELearning library by accessing the education server locally and remotely over the WIFI solution.
- Each class has its own WIFI network with different accessing passwords. Also the staff has their separated WIFI network by using Multi SSID feature on different VLAN for each grade and staff.
- Network IT manager can monitor and administrate all the students and teachers' insights and usage.



A photo from the place

▼ Related Recommended Products



EAP245



EAP-225Wall



EAP-225Outdoor



EAP-115Wall



T2600G28-MPS
(TL-SG3424P)



T2600G28-SQ



OC200