

## 232 HOSPITAL EMERGENCY DEPARTMENTS in Poland empowered with wireless communication of mobile devices

### ASSUMPTIONS

As part of the tender procedure for the purchase of 'Patient Attendance Modes in a Hospital Emergency Department (TOPSOR)' for the needs of 232 hospital emergency departments and their staff, conducted by the Polish Air Rescue, our partner Koma Nord of Gdynia, as a subcontractor of the TOPSOR project leader, i.e. the consortium of Maxto and Sensonics, delivered equipment from Cambium Networks enabling Wi-Fi connectivity for mobile devices used by medical staff in the EDs.

### SOLUTION

Hospital Emergency Departments (EDs) are places where emergency patient care is provided. Doctors, nurses, paramedics, attendants - the staff in the ED are exposed to a harsh stressful and hectic work environment, so they must have seamless wireless connectivity to the IT system.

To ensure wireless connectivity of medical staff devices, the decision was made to create separate Wi-Fi subnetworks with Cambium Networks access points.

Koma Nord Ltd. - an IT systems integrator and provider from Gdynia (PL), supplied 496 cnPilot e410 Wi-Fi access points from Cambium Networks, which were installed in 232 EDs in Poland.

### TOPSOR

TOPSOR is a system that supports handling patients in a hospital emergency department (ED). It processes data on the number of patients and waiting times for assistance, and is additionally a tool to support the assessment of the patient's condition (so-called triage).



🗣️ The access points supplied have met the high requirements of the Contracting Authority, becoming one of the foundations for the proper operation of the TOPSOR system. So far, after nearly two years of stable operation, the devices have also demonstrated excellent fault-free operation.

**Arkadiusz Łobodziec**  
project coordinator from  
Koma Nord Ltd.



## IMPLEMENTATION BENEFITS

### cnPilot e410

- IEC 60601-1-12 certification for emergency medical equipment
- Efficient transmission in the 2.4 and 5 GHz dual-band up to 1200 Mbit/s
- 1Gbit/s data port towards the local network
- 802.11a/b/g/n/ac compliant operation
- Can be installed anywhere (ceiling, wall, pipe) with Kensington lock protection
- Support for 32 different SSIDs with support for up to 256 simultaneous users per device
- Security - Support for WPA2 Enterprise and WPA2 PSK standards
- Cloud-based management and controller - cnMaestro - the ability to easily manage an end-to-end network from anywhere at any time. Different modes of cloud availability, public or private
- The free version of the cnMaestro Controller - Essentials version enables no-cost management of Cambium's Enterprise-class access points and switches, providing several valuable services and features in the package, e.g. four profiles of free welcome portals



### cnPILOT e410

Operating with a powerful 2x2 MU-MIMO antenna system, the cnPilot™ e410 access point offers a maximum transmit power of 25 dBm and radio channels up to 80 MHz wide at 5 GHz - providing the ultimate flexibility in both coverage and throughput.

The project was implemented with the support of:

#### Winncom Technologies

Global distributor and supplier of complete network, wireless and wired solutions.

[www.winncom.com](http://www.winncom.com)

#### Cambium Networks

Cambium Networks provides wireless connectivity to businesses, communities and cities around the world.

[www.cambiumnetworks.com](http://www.cambiumnetworks.com)