



Rehabilitation Center in Bulgaria Upgrades Wi-Fi and Patient Care

Rehabilitation Center – Bezden | Sofia Province, Bulgaria

Introduction: How Wi-Fi is changing the healthcare industry

Staying connected in the healthcare system with IoT solutions allows patients to get more engaged in their treatment and helps doctors improve diagnosis accuracy. The integration of Wi-Fi technology as an integral part of i.e. a rehabilitation center's IT systems enables visitors, healthcare professionals and patients to roam anywhere throughout the facility, while providing continuous, accurate and real-time monitoring.

With the right platform, a customised Wi-Fi experience can be created for each type of user: medical staff, non-medical staff, patients and visitors, each with their own level of access rights, security, bandwidth consumption and relevant features. Such tiered access can help increase staff productivity, generate new revenue streams and improve their overall patient and visitor experience.

Patients, and their families, are willing to pay for reliable Wi-Fi, so they can stay connected to the outside world. They can connect with friends and family through social media and access entertainment just as they would at home.

The major advantages of the IoT that healthcare organisations can benefit from are:

- Lower costs
- Better patient experience
- Better management of medicine adherence
- Reduced errors and waste
- Improved outcomes of treatment

The Site

The "Children with Oncohematologic Diseases" organisation (<http://www.center.decaohz.org/>) was founded 10 years ago in Opitsvet village, Sofia Province, Bulgaria.

The association brings together parents, professionals and supporters to lead to a common goal: to ensure that every child with an oncohematological disease receives the best care possible.



The rehabilitation center consists of seven houses to accommodate the families. A building with a hotel part, a dining room, a kitchen, halls for activities in small and large groups, as well as places for individual therapies. The total capacity is 40 people. There is a landscaped yard outside with a swimming pool, barbecue area and a stage for children's performances.

The site's main funding comes from the European program for rural development but as these funds could not cover all costs, countless people and companies have helped by donating funds, labour and materials to make this project come to life.

The rehabilitation center deployed the EnGenius EnSky Series WLAN Management Solution to provide the high-density, high-speed Wi-Fi network required to support their network-enabled applications and connectivity requirements for staff, patients as well as guests.

The EnGenius EnSky Solution



"EnGenius devices are compatible with medical equipment, and the internet is stable from first configuration."

– Momchil Radomirski, GM at Lynx Consult Ltd. (System Installer)

RTS BG, EnGenius' distributor in Bulgaria, provided the following Wi-Fi devices:

- [EWS7928P 24-Port Managed Controller Switch](#)
- [EWS330AP Indoor APs](#)
- [EWS660AP Outdoor APs](#)

In every house, there is one EWS330AP to cover the house premises. The other EWS330AP devices are mounted in the main building, and the two EWS660AP cover the sport center and the garden. They are configured to have 3 different SSID's in different VLANs for employees, for visitors and for management purposes.

The Result: Improved Patient Care and a High-Density, Easy-to-Manage Network

The EnSky Series allows the rehabilitation center to bring enhanced, ground-breaking care to its patients and also enables the integration of technologies into everyday life. Providing excellent Wi-Fi to all users – whether they are doctors, nurses, patients or family members who have stopped by the facility to visit a loved one.