



Enterprise Wi-Fi

High-speed Wi-Fi Coverage for the Telecommunications Company's Office Space.

Telecommunication services supplier WIA spol. s r.o.

Introduction

The company WIA spol. s r.o. was founded in 1999. It is a leading provider of top wireless and optical connections, ADSL, voice services and comprehensive VoIP solutions throughout the Czech Republic.

It currently serves tens of thousands of home and business customers and has experience with hundreds of installations of Wi-Fi networks of all kinds - from smaller hotels to music festivals for thousands of visitors.

Customer's Requirements

Telecommunication services supplier WIA spol. s r.o. moved to newly acquired offices in mid-2019. Part of the selection of technological equipment of the premises, which underwent a demanding reconstruction, was also

the selection of the supplier of Wi-Fi equipment. The assignment was simple, covering the offices with a Wi-Fi signal with maximum operational reliability, speed at the level of 1 Gbps and a reasonable price / performance ratio. The choice of technology was more important because WIA itself provides Wi-Fi coverage as part of its telecommunications solutions. The functionality of the system is therefore its own reference.

In the words of Jiří Pleticha, the main network administrator: "We have a lot of experience with the usual market players both from the position of the customer and in the role of the supplier, however, it was never an ideal solution. We either found a problem in operational reliability and customer satisfaction, or we did not have a business model. We were looking for a solution for the normal operation of a progressive society. This mainly describes the high data transfer, which is behind not only the number of employees, but simultaneous video conferencing, working with large data in the cloud, etc.

The EnGenius Cloud System Interface



EnGenius provided the following Wi-Fi devices:

EnGenius ECS5512FP with PoE budget 420W, 2.5G metallic interface and 10G uplink ports.

ECW230 Wi-Fi 6 (802.11ax) 4x4 managed Indoor AP

1 Cloud for the entire Network.

A complete system from the manufacturer EnGenius was chosen for the implementation. It offers not only a lifetime warranty on all active elements, but especially the most modern technologies of top quality. Access points support the Wi-Fi 6 standard (802.11ax) and PoE + switches with support for 2.5G metallic Ethernet will allow you to take full advantage of the wireless capacity of the new Wi-Fi standard. All elements are controlled by a cloud controller and are therefore fully configurable from anywhere in the world.

To cover a large space (two floors, each about 400m² - open space with glass partitions) was used two-band model EnGenius ECW230. Thanks to the Wi-Fi 6 standard, 4x4: 4 MU-MIMO support with a transmission speed of up to 3548 Mbps and a 2.5 Gbps Ethernet port, the network is also ready for the upcoming generation of technologies and traffic.

The Result

"We have been operating the network without outages for almost a year. We observe not only an increase in productivity, but also a decrease in coffee consumption. The downtime that arose during outages and the analysis of problems on the previous solution was unpleasant and demotivating, especially for employees. The problems complicated their work, and the financial quantification of their time played a significant role in

Specifically, there are 5 access points on each floor, exclusively in the central corridor, where the TX beam-forming function can be fully implemented to ensure a stable connection in all offices according to the current needs and location of users.

The cloud controller has a friendly user interface and in the clear dashboard it is obvious at first glance whether there is a problem in the network. It centrally manages all EnGenius elements, optimizes network operation and analyzes it in detail (incl. Consumption of user content such as Facebook, YouTube, etc.). It also has the option of printing vouchers for temporary connection of visitors, a configurable captive portal, and many other functions. All without worrying about your own hardware thanks to the guaranteed cloud availability of 99.99%.

the choice of technology. In a direct comparison of the offers of other renowned Wi-Fi systems, we were able to save tens of thousands in acquisition costs. Regardless of the licensing and operating costs that are eliminated with the EnGenius system - everything, including the cloud, is already included in the price of the hardware "concludes Jiří Plecticha.

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

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