



Police in Poznan Automate Network Monitoring

Safe data and safe networks: of paramount importance in the everyday work of police. The police in Poznan, a city in the west of Poland, are now taking care of some of these duties automatically. In the police station «Poznan Old Town», R&MinteliPhy is monitoring the IT network.

It would be virtually impossible for a modern police organization to work without safe data networks and data centers. But in many cases, administrators are still monitoring network operations «manually». Experience shows that not all connections can be monitored one hundred percent 24/7. Over the course of time, ports get forgotten about and then errors can start to occur during patching. Risks increase and could lead to security forces not being fully operational when it comes to the crunch.

Long-term planning

The police in Poznan have left this risk behind them. They took advantage of the modernization of their important site in the significant old town to install state-of-the-art network

technologies. The police headquarters of the western Polish region of the Greater Poland Voivodeship had been pursuing this project for some years.

The aim is to prepare the precincts in Poznan, and in fact in the entire region, for the security tasks of the future. The modernization program has been running since 2017 and is due to be completed in 2020. Together with the city administration, the police invested 6.2 million euros in the precinct in the old town of Poznan alone. Mariusz Wiśniewski, Deputy Mayor of Poznan, justifies the city's financial investment as follows: «We want the police to have the best working conditions possible. That is also important for the safety and security of the town.»

The police commissioned their new data network in June 2019, when the renovated building was re-opened. Since then they have enjoyed the advantages of the automated infrastructure management system (AIM).

Monitoring with R&MinteliPhy

The sensors of the AIM system R&MinteliPhy monitor the physical infrastructure with 30 distribution cabinets and 500 ports. They recognize the RFID chips on the copper and FO connectors and communicate in real time with the analyzer and the central server. This is how R&MinteliPhy always knows which ports are occupied, whether cables have been connected correctly or whether someone has manipulated the link. When service technicians have to patch, R&MinteliPhy leads

them to the right port. The sensor strips indicate where cables have to be plugged in.

But R&MinteliPhy can do even more. It provides a uniform database for network administration. Nobody has to maintain tables or write notes. R&MinteliPhy visualizes the entire infrastructure, supports plans for extension or changes to the network.

The modernization of the precinct started in the fall of 2016. The neoclassical building on the Aleje Marcinkowskiego Unit in the shade of the Karol Marcinkowski monument is under a preservation order. It was built between 1882 and 1884 based on plans by Heinrich Koch under the direction of master builder Otto Hirt. After its renovation, it was restored to its former glory and is now the pride and joy of the old town police.

Pioneer in Poland

Polish media reported with great interest on the new infrastructure and the «safe and efficient» data network consisting of OS2 fiber optic and shielded Cat. 6_A copper cabling. The news agency WTK wrote: «This building

was equipped with a system for automatically managing and monitoring the entire network infrastructure. All copper and FO connections of the horizontal and vertical cabling are monitored for security, analysis, documentation and any changes made during network use. It is the first police institution of this kind in Poland to have an AIM system installed.»

The Police Headquarters in Poznan already defined the general requirements for the structured cabling system at the design stage. R&M Poland has supported the planning agency since 2015 as a technical consultant for structured cabling. The R&M certified installation partner of IT company Helpdesk Sp. Z o.o. carried out the work with great expertise. The 25-year system warranty issued by R&M underlines that the installation fulfills all standards and quality guidelines.

Future ready

Over the past few years, R&M Poland has provided structured cabling solutions for several buildings of the police in western Poland. The first joint installation project started in 2013. That was when the police station in Komorniki was given a new network. It is based on R&Mfreenet cabling of category Cat. 6_A ISO. The AIM sensors can be retrofitted at any time. Everything is prepared for the use of R&MinteliPhy.

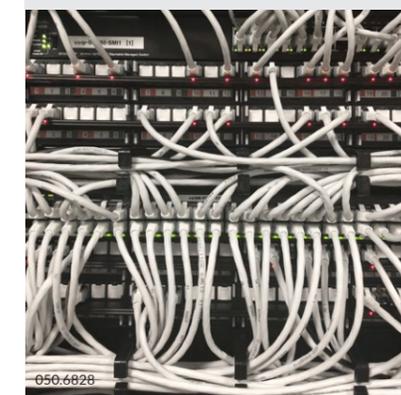
Installations followed every year after. The precincts in Jarocin, Pleszew, Kłodawa, Lubon, Pniewy, Dopiewo, Grodzisk Wlkp and Kalisz were all fitted with new networks which can be retrofitted with R&MinteliPhy at any time. In the future, the police authority in the region of the Greater Poland Voivodeship will be able to manage its network infrastructures from a central site.

The R&M solution

- The structured cabling of the new old town precinct in Poznan consists of:
- 65 km copper installation cable Real10 S/FTP Cat. 6_A 650 MHz
 - 35 high density patch panels each with 24 ports
 - 840 Cat. 6_A ISO connection modules and 951 Cat. 6_A patch cords, lengths from 1 to 5 m
 - 2 km OS2 FO cable and 200 m OS2 mini breakout cable
 - 22 Unirack2 FO patch panels each with 24 LC Duplex adapters and 3 fiber outlets

The following were delivered for automated infrastructure management with R&MinteliPhy:

- 45 sensor strips for FO and Cat. 6_A high density patch panels
- More than 100 RFID chips for RJ45 and LC Duplex connectors
- 2 analyzers 19" 1U and 1 data integration bridge
- 3 in-house management servers for monitoring 30 cabinets and 500 ports



R&M provides technical trainings for the IT experts of the police stations on a regular basis. With their specialist knowledge of R&M products, they are fully familiar with network operations and automated infrastructure management. This means the police in the region of the Greater Poland Voivodeship are perfectly prepared for the future of secure data transmission.



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