Success

Precise Planning
of LAN Modernization

PANSA focused on Swiss quality in the project of modernizing the LAN network. The Air Traffic Management Data Center in Warsaw has been equipped with a new LAN network from R&M. The modernization of the existing network in the operating Data Center required both precision and organizational skills.

How can a LAN be modernized fast without disturbing operations? And how can the new cabling be accommodated in existing, narrow cabinets and conduits? R&M partners Telpom and S&T had to find an answer to just that question. It was their task to completely replace the active network infrastructure and to modernize the backbone network (between network nodes) in the CZRL building of the Polish Air Navigation Services Agency (PANSA). Among other things, the CZRL Data Center processes the operating data of the Air Traffic Management Center, making high demands of security.

S&T took on the job as general contractor and commissioned Telpom to carry out the work. Telpom is the installation company of experienced Polish partner Rudolf Pomper certified by R&M.

Perfect High Density platform

First of all the planners proved that R&M's High Density platform fits in occupied, narrow cabinets – both for copper and for fiber optic cabling. For this purpose they put the cabling into groups each with 12 links. The numbering of the module holders was prepared accordingly. It had to be adapted at short notice. This took place without any delivery delays.

The greatest challenge was to coordinate the working steps on site and the punctual delivery of cables and components. Modernization in the older infrastructures was seen as a complex task. But the customer was not prepared to accept any incidents or delays. Precise preparation, organizational skills and professional execution all played their part in the task being completed correctly.

The necessary working steps and resources were determined beforehand. This was followed by accurate measurements. Based on this preparatory work, the partners drafted a detailed execution plan. For example they were able to determine the link lengths precisely. With this information, they were able to prepare the cables accordingly and lay them directly between the connection points.

The R&M solution

PANSA's modernized LAN of the Air Traffic Management Center and the CZRL Data Center comprises:

– 110 OS2 and OM4 fiber optic cables, terminated with LC Duplex
– 220 FiberModules HD in both splice and breakout version
– Class E_A links with 10 km copper cable
– Cat. 6_A ISO ports
– More than 90 High Density (HD) patch panels
– All connections were applied on HD patch panels, R&M*inteliPhy* ready
– Structuring in groups of 12 links each

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