



T-Mobile Czech Republic a.s.

A case study by Molex Premise Networks

T-Mobile is one of the key players in the global telecommunications industry. Not surprisingly therefore T-Mobile Czech Republic is at the forefront of mobile phone technology in the Czech Republic. It already has more than 4 million customers in this region and covers 99% of the Czech population. It is also leading the way in offering its customers state of the art technologies such as GPRS, UMTS (3G) and WLAN.

Rapid Expansion

As a result of its expansion, T-Mobile Czech Republic needed a new headquarters accommodate its Prague employees at one location. The new purpose built eight storey building at the outskirts of Prague would house over 1500 employees working in a variety of functions including Customer Service, Product Development and other head office functions such as Sales, Marketing and Finance.

When designing the new network infrastructure within the building, it was imperative that it would be able to expand in line with the company's future growth. It was also equally important that it would be resilient to all the demands placed on it - given the fact that T-Mobile Czech Republic operates at the cutting edge of mobile technology, these would be band-width consuming applications.

The Molex Partnership

T-Mobile Czech Republic specified a Molex Premise Networks cabling solution. This 17000 point installation featured Molex's Category 6 Solution - PowerCat 6 as well as MT-RJ fibre connectivity. Michal Vackár, IT Operations Manager of T-Mobile Czech Republic said of his decision to install a Molex solution "A variety of factors were behind our decision to implement a Molex solution - we received excellent pre-sales support and their range of products were of a good quality, incorporated innovative features and were competitively priced".

The PowerCat 6 solution selected by T-Mobile Czech Republic is indeed testimony to Molex's commitment to producing innovative products to the highest possible standards. This range incorporates the new Datagate Plus jack in its patch panel and wall outlets. This connector features an integral shutter that not only protects from dust and contaminants, but by virtue of its spring-loaded design, can eject any patch cords that are improperly inserted, thereby virtually eliminating the problem of faulty connections.

The Installation

This installation generates some impressive statistics: 880km of Category 6 cables and 14km of singlemode and multimode fibre optic cables were installed. In addition, the new building featured 21 Communication Rooms containing a total of 130 cabinets. Approximately 60% of the 17000 points were housed in floor boxes, the other 270 were contained in wall outlets and the 4800 MTRJ points were in cabinets.

It was calculated that this network cabling installation would take 9 months. One of Molex Premise Networks Certified Installers - PVT, a.s.- a system integrator of computer and telecommunication technologies was appointed to undertake this installation because of its expertise in successfully project managing installations of a similar size and time scale. PVT, a.s. and Molex Premise Networks worked closely with the network team at T-Mobile Czech Republic to ensure that all deadlines were successfully met.

To conclude

Upon completion of the installation and their move into their new headquarters, Michal Vackár, IT Operations Manager of T-Mobile Czech Republic concluded "It's reassuring for me as the IT Manager to know the network infrastructure has been supplied by a reputable manufacturer and installed by one of their highly trained Certified Installers. The fact that the solution is provided with a 25 year warranty by a \$2bn global manufacturer also brings additional reassurance of the longevity of the solution. This network will play an important role in ensuring that T-Mobile remains at the forefront of mobile technology in the Czech Republic for many years to come."

