IMTECH TELECOM BELGIUM CASE STUDY

IMTECH TELECOM INSTALLS OPTICAL NETWORK FOR MVG FLANDERS

Imtech Telecom, a leading telecommunication service provider throughout the European Union, establishes an optical network for the Ministerie van de Vlaamse Gemeenschap (MVG).

MVG is a council of the Dutch speaking part of Belgium which is called Flanders. The MVG is leading the way in modern telecommunication technology. Flanders has a hyper-modern telecommunication network. Moreover, Flanders is the spearhead of new applications in this field. In fact, approximately 95 % of Flemish homes have cable TV and radio.

The Administratie Ondersteunende Studies en Opdrachten (AOSO) department performs infrastructure projects for: Equipment of electrical installations alongside roads and tunnels: lighting, traffic lights, lighted signals and beacons, ventilation, pumping stations, emergency phone boxes. It also establishes electromechanical powering of moveable bridges, sluices and dams. Furthermore AOSO implements advanced telematics systems, for example automatic vehicle counting, video traffic surveillance of roads and tunnels, traffic light cameras, weighbridges, systems for measuring slipperiness, gauging, hydrological messaging, traffic guidance systems, traffic information systems.

AOSO observes and operates installations alongside roads and waterways. The department also regulates the implementation of electrical installations on the regional airport of Ostend and accompanies the buildings': lighting, beaconing, power distribution, signalisation and security installations. The Department is reliable for the maintenance and the technical exploitation of these installations. AOSO uses workhouses to perform specific maintenance activities and warehouses to stock spare parts and it has a duty guard that is available 14 hours a day to centralise and register malfunctions and to initiate measures for immediate repair.

Imtech Telecom provides the consultancy for the whole optical network. Due to this Imtech Telecom advices on network layout and the component selection. The network layout will also be designed by Imtech Telecom depending on the needs of the customer. After the design is finished, Imtech makes the list of needed equipment, buys the equipment and accessories, assembles, configures and tests them. Imtech installs the whole network and configures it.

The installed equipment is taken into service and inserted in the existing network. Transmission paths are provisioned by Imtech on demand of the customer. The complete network is monitored by Imtech Telecom.

In case of major alarms, Imtech will analyse the cause of the alarms within 30 minutes (24/7). Imtech will take the appropriate action in order to solve all problems. In case of equipment failure, Imtech Telecom will intervene and fix the failure or replace the defect equipment within 4 hours.

In this project Imtech used the products: Metropolis AMS/AMV, Metropolis ADMU/ADMG and the ITM-CIT/WaveStar ITM-SC, of the SDH product family of Lucent Technologies.

The Metropolis AMS/AMV is a compact STM-1 access multiplexer that can help service providers deploy new services such as IP Transport, Ethernet L2 Switching and TDM to small- and medium-sized enterprise customers.

The Metropolis ADMU/ADMG is a next-generation multiplexer that helps support an array of metro needs with a single, high-density multiservice system. It helps provide Ethernet, PDH and SDH services and supports a variety of applications from the metro core to metro access. Offered as either a Universal or Compact shelf option, it can be a cost-effective, scalable solution optimized for STM-4, STM-16, and STM-64 line speeds.

The ITM-CIT/WaveStar ITM-SC (Integrated Transport Management – Subnetwork Controller) provides element management functions for optical transport networks. It helps to reduce the complexity of operations through remote and centralized SDH Network Element (NE) administration, thus removing the need for local access to configure and activate NE cross-connects.

The SDH network of the Ministerie van de Vlaamse Gemeenschap consists of an active transmission layer on a glass fiber network. This network runs alongside highways, important secondary roads, rivers and canals. Also, the different ministerial cabinets are connected with glass fiber. The SDH network serves as a modern digital transport network for telematica applications for traffic management, and waterway management. It can also be used to reliably transport internal telephony and data traffic.

Reliability is assured on several levels: redundancy of cards in the network elements, transmission protection mechanisms, redundancy on the level of the management system.

Imtech N.V. is a European technical service provider in the fields of information & communication technology, electrical engineering and mechanical engineering. With around 14,000 employees, Imtech achieves an annual turnover of around 2,0 billion euro. Imtech holds strong positions in the buildings, industry, marine, infrastructure and telecoms markets in Belgium, Germany, Luxembourg and The Netherlands and is also active in Sweden, UK and Spain. Imtech shares are listed on the Euronext Stock Exchange (Amsterdam), where Imtech is included in the Midkap index (AMX) and the Next 150 index. For more information on Imtech, visit its Web site at http://www.imtechtele.com

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