#PanoramaInside

Lille Metro

SCADA System for Station Access Control

Operator
Keolis

Integrator
Semeru

The Lille Metro was the first automatic (driverless) metro in the world! Originally designed as an open metro system, access to passengers was totally free. Subsequently, to combat fraud and reinforce the security of users, the Lille Metropolitan Area (MEL - Métropole Européenne de Lille) took the decision to control access to their public transport network. Since that decision, more than 600 access gates have been progressively installed throughout the 60 stations served. KEOLIS, in charge of operating the ILEVIA (formerly Transpole) transport network, chose Panorama SCADA software as the access control solution.

KEOLIS

in figures

- **2 metro lines**
- **60 stations**
- **600 access gates**
- **350.000 passengers per day**
- **700 calls/day handled**
- **Project budget: €50 m**

An Operations Support System and more…

Within the framework of the station access control project (CAS), KEOLIS has chosen the Panorama instrumentation and control system to meet its operating requirements. The aim was to combine the functionalities of an Operations Support System with local Facilities Management systems, one per station, within a centralized Hypervision network. The system is currently in operation at the passenger Control Center located at the main Lille-Flandres station.

With the ability to seamlessly bridge the worlds of automation and IT, the Panorama software appealed to the transport network operator thanks to its Object Oriented approach, which allows for the rapid replication of standard applications.

Considered as a critical and sensitive infrastructure, the Lille metro needed to be equipped with a reliable and durable SCADA solution developed by a manufacturer with a sound track record.

At the heart of the Lille Metro passenger Control Center

Three operators are available 7 days a week at the control center to answer an average of 700 calls per day from passengers. Single gates, double gates and emergency access doors are all equipped with call points to answer passengers' calls and facilitate access to the infrastructure. The calls (audio and video) are transferred to the CAS system and handled in real time by an operator whose job is then to remotely open (or not open) the gate in accordance with access rights and generate a log to ensure the **traceability** of the operations.

In addition to the calls coming from the gates, the CAS system supervises the following equipment:

- Access control & Intercom
- Ticket readers & Ticketing
- CCTV request & Network switching

Control Station PCC

Human Machine Interfaces CAS

Key goals already achieved!

With its **reliable instrumentation and control system**, the access control system now in place has already enabled KEOLIS to significantly reduce fraud on the metro network. Users also feel safer thanks to the «filtering» effect of the access control gates installed in the metro stations, thus improving the **passenger experience**. Bearing in mind that Lille's century-old tramway is still in operation, we can safely assume that the investment will be a worthwhile one for the people of Lille.

A scalable SCADA system

Now that the CAS system is **supervising all 60 stations**, KEOLIS, always seeking to innovate, is going to update all of its Panorama applications to benefit from the latest developments in the Suite and thus **optimize its installations**.

The operator will therefore be integrating Panorama's new alarm and event management interface to **improve real-time monitoring**. Simpler and more user-friendly, it will allow operators **to be more efficient in the management and operation** of their installations.

KEOLIS also wants to equip all maintenance personnel with a **mobile SCADA interface** to enable them to be more responsive in their field operations.

CODRA