

## Brussels South Charleroi Airport

Supervision of baggage handling  
systems & airport facilities

Integrator  
Equans

Handling over 8.5 million passengers a year, Brussels South Charleroi Airport (Belgium's second largest airport) has been experiencing exponential growth since the 90s, in particular with the arrival of «low-cost» airlines such as Ryanair.

It was in 2007 that the airport chose Panorama SCADA software to control the FM/BMS of airport infrastructures, monitor the baggage handling system and benefit from a general overview so as to be able to ensure round-the-clock continuity of service.

Since then, the Airport has been continuing to deploy the Panorama application with the integrator partner Equans, with Codra's support, to meet all changes in business needs.

BRUSSELS  
SOUTH  
CHARLEROI  
AIRPORT S.A.



### in figures

- + 3,000 people working on site
- + 200 destinations
- Supervised surface area of 72,000m<sup>2</sup>
- 27,000 external variables
- 14,000 alarms



Durability, interoperability and scalability

The airport chose the Panorama SCADA solution in order to benefit from an open and interoperable platform capable of interfacing and communicating with the various different systems. Any new facility is thus systematically connected to the SCADA software.

To do this, Charleroi airport made use of Panorama's Object principle, one of the software's major strengths which facilitates and accelerates the creation and integration of new equipment in the application. In this way, for over 15 years now, the application has been evolving to take account of enlargements to the site to support the growth in the number of passengers transiting through Charleroi airport.



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## A reliable baggage handling system

The airport relies on the Panorama software suite to help it to guarantee a high level of quality of service, in particular with the baggage handling system (BHS). This system is controlled in Panorama to ensure that all the machines and automated equipment keep working without interruption from 4:00 am to 12:00 am.

The interoperability of the SCADA solution with other business software makes it possible to track and route baggage correctly, limit lost baggage and have access to information in real time. Technical teams have «remote» access to the Panorama application to supervise and manage alarms in order to make sure that the technical facilities keep running smoothly.

In total, over 30 technicians are ready to respond to the site's needs on a daily basis thanks to a unique command and control tool.



Real-time BHS monitoring with Panorama software



Supervision of integrated business systems in Panorama's application

## Energy performance and Data Historian

To take things even further in terms of energy accounting and an in-depth knowledge of how its facilities are performing, the airport has recently availed itself of Codra's Data Historian offer: Panorama H2. Thanks to pre-defined energy reports per building or per business, the airport will be in a position to monitor the expected service level of service providers, optimize repair times and the rate of availability of equipment and re-invoice the energy consumed to them. Charleroi airport has already seen a saving of 30% in electricity, via Supervision, as a result of equipping all its parking areas with LED lighting.

*"The Panorama application is constantly evolving and means you don't need to have multiple tools for the control and supervision equipment while providing a 360° overview of the site's facilities"* explains David DELOBBE, SCADA Manager at Equans.

## Towards greater operational and energy efficiency

With the objective of achieving a volume of 13 million passengers between now and 2035, the airport has numerous projects in the pipeline: renovation of the premises that formerly served as Charleroi's main terminal, the creation of a digital control tower, and the integration of new methods of energy metering. The technical teams are putting their trust in Codra and continuing to use Panorama software to keep their SCADA application evolving and thus ensure high quality continuity of service.