



# Zagreb Airport Opts for a Networked Door Management System

Zagreb International Airport is the gateway to Croatia, whose tourism sector is playing an ever-increasing role in the country's economy. In the last years, Croatia has



become a popular holiday destination that offers a variety of activities, for example climbing, nautics, diving, skiing, wellness, etc.

Due to the long lasting unrest in the Balkan region, the number of passengers flying into Croatia decreased. Now that peace has been restored to this country, holidaymakers are starting to return. This naturally exposes the airport authorities to the challenge of effectively managing the facility and handling passengers.

## Step-by-Step Modernization of the Airport

The Zagreb airport has been basically modernized for some time, in particular with regard to the growth in tourism. The first Honeywell control system was, for example, commissioned in 1993 to control and monitor HVAC and lighting systems. Between 1995 and 1996, the system was expanded with the latest DDC controllers as well as a modern fire

monitoring system. After 2002, LONWORKS-based products for HVAC, access control and surveying water levels in the cisterns, assigned to the fire department, were installed.

## Powerful LON-based Door Management System

As part of the renovation of the building's facade, the main entrance was equipped with modern sliding doors with a breakout safety device from LONMARK partner member, agta-record AG. The LONMARK certified record LON-16 interface allows for 16 automatic record doors to be easily and cost efficiently integrated into an existing management system. In this project, the same interface is also used to survey five manually operated doors.

All operation and safety-relevant elements and functions are monitored on record automatic doors. Up to 60 diagnostic messages can be made available to the network. Should an error occur or if a door is improperly operated, a report with clear and significant information is immediately triggered. Thanks to a simple setting of priorities to each individual message, alarms can selectively be forwarded to the appropriate services.

Petar Matanovic, Project Manager at Merkantile, Zagreb, the responsible integrator and consultant, in summarizing his experience with the integration, said, "The Entry/Exit 50.51 functional profile from LONMARK is clearly structured and exceptionally powerful."

All information about the status of a door is available and can be handled at the alarm level. The integration is very easy due to the standard plug-ins. In contrast to a conventional integration via I/O nodes, this integration is significantly



less expensive and the amount of information exceeds by far the normally available status indicators. Due to the prioritization possibilities, individual reports can be forwarded for further handling to the service concerned.

Damir Haramincic, responsible for automation and maintenance at the Zagreb Airport disclosed that they work under a lot of pressure, in particular to keep personnel costs down. "For this reason, I only have three

employees to ensure maintenance on the special vehicles, fire alarm and air conditioning systems, ground power units, and the automatic doors. We are constantly overloaded," said Haramincic.



"The comprehensive and very informative building management system makes it a lot easier for us to get our daily work done. The comprehensive graphical user interface allows us to recognize immediately the exact status of all technical equipment. The performance of our department is considerably higher than before thanks to this clear information," continued Haramincic. The door monitoring is of particular importance to the airport security department. Irregularities or incorrect operations are immediately recognized and specific and appropriate interventions can be initiated without further delay.

"As the next expansion step, I would welcome the implementation of an automatic remote alarming system," said Haramincic.

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