



It's Under Control®

ACCESS GRANTED

RTI Ensures Fast, Reliable Performance of Access Control System in ZIK Immo AG Building



Formerly an industrial plant, the ZIK Immo AG building in Arbon, Switzerland, has been given new life as a mixed-use space containing apartments, a medical clinic, a government office, a local court, and small companies renting space. In 2017, the decision was made to replace the building's outdated access control system with a faster RFID-based solution. To install the new system, property managers called on Arbon-based integrator Aerne Solutions.

At the ZIK, Aerne installed RFID readers at 30 doors and two elevators. 200 employees working in the building scan their RFID cards at the readers and are either granted or denied entry based on access rights in the encrypted software running on a server. However, having the RFID readers communicate directly with the server to check access codes would have been a slow process. To speed things up, Aerne turned to RTI, utilizing eight of the company's XP-3 control processors in conjunction with 30 ESC-2+ Ethernet to serial converters.

Aerne created two-way drivers for the ZIK's server and RFID readers, which allow them to communicate with the XP-3s. The server sends the system's access codes to the control

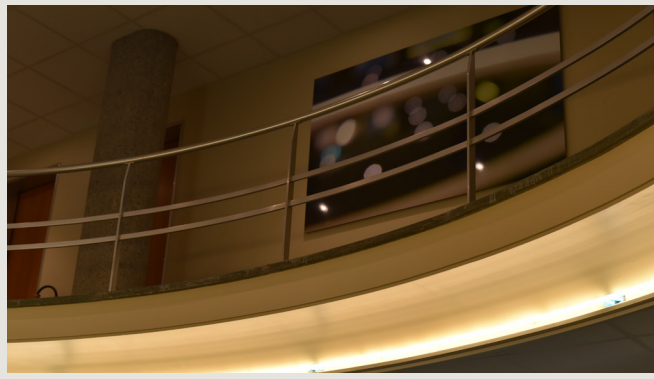
processors, where they are saved locally. When an employee scans their card at an RFID reader, their access code is also sent to the XP-3. The processor controls the relays that open the building's doors, and if the access code it receives is a match for that door, it sends the "unlock" command.

"With the ability to completely customize RTI products for any project via two-way drivers and the incredibly intuitive Integration Designer software, the company's platform was the perfect solution for the ZIK's access system," said Pascal Nyffenegger, systems integrator at Aerne Solutions. "Utilizing



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Pascal Nyffenegger
Systems Integrator at Aerne Solutions



the XP-3 has proven to be much faster than having the RFID readers communicate directly with the server, and the system itself has performed flawlessly. In fact, we’ve been asked to put in the same system in a new building next door. You can’t get better feedback than that.”

List of RTI products used:

- 8 x XP-3 Control Processor
- 30 x ESC-2+ Ethernet to Serial Converters



Aerne Solutions 

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