



Project area

## **SECURITY AND AUTOMATIONS**

Created for

## **TRADE ORGANIZATION**

Requirement

## **ADJUSTING AND CONTROLLING VISITOR ACCESS**

### **PROFILE**

Trade Show Complex is located in the privileged area of Central – Northern Italy. Created according to innovative principles, it has a flexible structure which can be adapted to accomplish a plurality of events.

The **covered structures** include a total area of 34.000 m<sup>2</sup>, divided in 4 pavilions, plus a Directional Center, Service Center and 6 Sale Convention.

The **outdoor** area of 75.000 m<sup>2</sup> is used for shows and expositions.

There are 4 fair **pavilions** with a surface between 10.000 and 45.000 m<sup>2</sup>. **Congress Center** features 6 sale areas of different capacities, placed in different locations. The sale conventions can host from 30 to 700 persons, with a total of 1000 seats. The Directional Center and the Services Center include offices, restaurants and other services such as: press room, press agency, bank, newsstand, cloakroom and hotel booking office, refreshment points.

The external area of 20.000 m<sup>2</sup> is used as a **parking space** for approximately 3.000 vehicles.

### **REQUIREMENT**

The trade organization requested an access control system which guarantees high security, real time visitor monitoring and visitor flow control. The project had to meet the following requirements:

- verify if the access right is valid;
- authenticate the access right;
- provide transit date and time information;
- invalidate the access right.

Among the requirements there was the possibility to move the system in different pavilions to have access management at the events hosted within the complex.

## ACCOMPLISHED PROJECT

Thanks to ZucchettiGroup's wide offer of access control solutions and strong experience in project management it was possible to create a customized solution which meets the trade organization's requests.

All details were taken into consideration in order to accomplish the project! An important aspect was the application's usability to enhance performance. Therefore the system performs:

- Frontal notification for inserting the access right;
- Online access right validation in less than ten milliseconds;
- Reading access right identification barcode even if inserted backwards;
- Expulsion of the access right in vertical position so it is easier to reach assuring a better visitor flow;
- Expulsion of unauthorized access right (example: in case of non adequate date and hour, used ticket, etc.) with the correspondent light notification.



## HARDWARE

10 tripod turnstiles on movable platforms were required to meet the client's request.

Each turnstile is equipped with an advanced technological mechanism for authorization/deletion which allows controlling the barcode reader, thermal printing and I/O file useful in ordering and controlling the turnstile movement.

The system can manage all types of access rights: from paper or thin cardboard tickets to plastic cards. Moreover it can be equipped with 125 KHz – 13,56 MHz multi-standard RFID readers.

The online connection between the validation/deletion mechanisms and the management software is made via TCP/IP socket.

In case a control point loses its connection, for example for deactivating a component, the program automatically performs device probing, reactivating the communication as soon as the device is operational.

## SOFTWARE

The ZucchettiGroup application combined the access control function with the practicality and comfort desired by the client.

Being prompt and easy to configure the program accomplished all requirements, security criteria and request automatism.

The solution, together with the installed terminals allow acquiring, validating and monitoring transits in real time according to access rules and authorizations (time intervals and days of the week, anti-pass back controls, PIN verification, etc.) configured in the client database. The application guarantees advanced performances in receiving, validating and authorizing transits. These are basic operations for clients to efficiently manage elevate gatherings in set time ranges.

The access profile configuration and parallelism can be performed according to:

- Schedule models and policies;
- Authorized users and visitors lists to attach at the access policies;
- Authorized user lists in text format (.txt ) from file;
- Particular actions directly set at the terminal.

The intuitive graphical interface allows the trade organization to verify each passing point, access right management and analysis phases notifying correct transit operations, or anomaly situations such as a machine which does not return an access right, entrance alarm status. Therefore it is possible to know in real time the exact number of people present inside one of the halls and the number of passes at each gate.

The trade organization can use an analysis tool which creates reports grouped by users, visitors, gates, access attempts, as well as reports of the latest transactions.

