



Security Management at Geneva Airport, Switzerland Airport secured with AEOS solution from Nedap

Aéroport International de Genève, the second largest airport in Switzerland

AIG, Aéroport International de Genève, is one of the most dynamic airports in Europe. In 2006 alone it handled almost 10 million passengers and 170.000 flights to 100 destinations, serviced by 150 different companies. Obviously, with these figures, security is an important issue and needs to be up to standard at all times.

The implemented AEOS system controls the access of a workforce of 13,500, manages 37,500 badges, 60 shops and 150 organizations working at the airport's facilities. Securing and controlling such a dynamic environment requires a flexible access control system, based on state of the art technology which is able to meet present demands as well as future security requirements.

AEOS

One of the main reasons for AIG to choose Nedap AEOS as its security management system was its structural different architecture based on behaviour components. AEOS behaviour components allow the system to support and enhance the airport's security policy and procedures. Furthermore, changing requirements can be put into effect much more easily. Another reason to choose AEOS is its capability of simultaneously handling multiple reader and credential technologies in a single system. The implementation took place through the Swiss certified business partner of Nedap: Tyco Fire & Integrated Solutions.

Different card and reader technologies in a single system

Four different identification technologies are used simultaneously in the AEOS access control system at Geneva Airport: Nedap, Mifare, Legic and Magnetic stripe, each technology serving a different purpose. The Nedap Combi card has been put into place, which combines all the required technologies, therefore increasing convenience for the users, as they do not have to carry four different cards.

Nedap technology is used for convenient hands-free access (up to 1m) for people, and long-range reading distances for vehicles. Vehicle identification at the premises is achieved via the Nedap TRANSIT long-range reader and compact tag, which detects vehicles up to 10m away. Mifare technology is used, amongst others, for data transaction purposes, e.g. secured storage of biometric templates in the Mifare chip. Legic technology is applied to preserve previous investments in the field of access control. For vending purposes, a magnetic stripe has been added to the Combi card.



Contractor, Vendor & Permit Management

The majority of AIG's workforce is employed by the 150 companies operating at the airport. A considerable amount of time is required to manage the flow of people and access rights of the people (contractors) working for these companies (vendors). The contractors are to be managed

and separated from AIG employees. For the airport, it is important to separate the access rights and events/alarms generated for each category of persons in the access control system. Furthermore, the access rights for contractors should be blocked automatically once they have finished their job and/or once the vendor's permit has expired.

The AEOS software features contractor and vendor & permit management provide a good solution. Contractor management distinguishes contractors from employees and visitors. The contractors' person data are linked to the applicable vendor information and a contact person, usually an employee. Vendor management registers the applicable vendor data and links the vendor to a permit. A permit determines how many and which contractors are allowed to work on this permit, the type of work it is issued for, and the validity period. Once the permit's validity has expired, all the contractor's access rights are automatically blocked.

Visitors at Geneva Airport

A strict security policy is in place with regards to visitors, as they are not allowed to walk around freely. They must be accompanied by an authorised employee at all times and will only receive access to certain areas in the employee's presence. Only a certain, selected group of employees are allowed to accompany a visitor. This security policy is enforced via the "two men rule", which means that a visitor badge should only be accepted when an employee badge is presented at the same reader within a certain time frame. Thanks to the AEOS behaviour components, this specific security policy is easily put into effect. AEOS verifies the authorisation that is granted to the visitor and determines whether the employee is authorised to guide a visitor. When these conditions are fulfilled, both visitor and employee will have access.

Extensive monitoring

At AIG, different security levels apply depending on the facilities zone or area. Certain areas have a high security level and are equipped with a 24/7 manned security desk. Whenever a person wishes to enter such an area, he or she must present his/her badge at the applicable reader at the security desk. Once AEOS has verified the authorisation's validity, a display above the desk indicates whether the person is granted or denied access. At the same time, the security guard monitors via AEOS the person's data, photo and authorisation validity: checking that the person is really the rightful badge owner. The AEOS photo event feature instantly provides the security guard with other relevant information: persons name, department, personnel number, reasons for not being authorized, etc.



As a matter of policy, employees, contractors and visitors have to wear their badge visibly at all times. For visual identification and authorization purposes, badges have different colors which tell the security guards which areas of the airport these people have access to. With the Nedap GPRS hand-held scanner, patrolling security guards can read a person's badge, verify its validity and find out the persons last movements.

Facts and Figures Aéroport International de Genève

- 10 million passengers annually
- 170 000 flight movements
- 150 organisations and 60 stores
- 13.500 employees (Incl. contractors)
- 37.500 badges
- 200 Nedap readers (to be extended to 400 in the near future)