



Multifunction sports centre in Barleben with optimised card usage

Modern building management system takes over control of the complete hall technology

The local authority in Barleben was planning to create a multi-purpose hall, both as a sports hall for the local schools and sports clubs and as a venue for sporting and other events. For this purpose, a previous cooperative society building was selected that then had to be converted.

Usage of the hall and the costs involved were to be billed to the individual users based on the time they were there and the energy consumption. A modern building management system should control the technology. According to recent EU employment legislation, it is no longer allowed for caretakers

to have to work 14-hour days at schools, in order to be able to open up the halls in the morning and then make sure they are secured at the end of the day. This was a further argument for implementing an intelligent access control system.

The previous access control system was deployed, in order to allow access for the users of the hall during a particular time period. Proximity card readers were installed at the building entrances, at important connecting doors within the building and at the changing rooms.

The sports clubs' trainers, players, coaches, teachers and event organisers were issued with cards.

There are three different types of cards:

1. Master cards
2. User cards
3. Event cards

Trainers, coaches and teachers were given master cards. These master cards allow the owners to enter and to use the assigned areas of the hall, the changing rooms and the meeting rooms at the agreed times.

The players (user cardholders) can only access the hall and the assigned areas if the corresponding trainer (master cardholder) is present and has released the corresponding access rights for the others on entering the hall.

A message is sent to the building management system when the booking was made. This gives information about

- ▶ The identity of the user
- ▶ The areas to be used, e.g. sections of the hall, changing rooms, etc.
- ▶ The required lighting
- ▶ Any temperature setting

With this information, the building management system triggers the control of the lighting, the heating and the hot water usage in the shower rooms, through an EIB bus. Also, the required data for the corresponding usage billing is recorded.

As the master card holder registers his / her departure from the building, the access rights are removed from the user cardholders.

The event cards are used for events of all types. The spectrum of planned events includes chess tournaments, political meetings and New Years Eve balls. For this purpose, the event organisers are given cards that give them time-limited access to the areas they have hired.

Doors within the event area are released for the duration of the event with these cards.

As well as access during the event, the cardholders can also enter the building to prepare for and clear up after the event. Energy consumption billing data is also collected during these times through the software connection to the building management system.

The Barleben authority's system has since been extended to include a second hall.

The primion system in use consists of the following components

- ▶ prime WebAccess access control software including a building management system interface
- ▶ 17 x IDTs
- ▶ 48 x Card readers
- ▶ Cards, defined as master, user and event cards

Reasons in favour of a controlled opening and closing of sport halls:

- ▶ Time-controlled access
- ▶ Access is restricted to authorised persons
- ▶ Doors are closed during training sessions
- ▶ Controlled processes during events
- ▶ No security loopholes through the loss of or copying of keys
- ▶ Reduction in workload for the hall caretaker through automatic opening and closing of the doors

- ▶ Integration of video, fire and intrusion detection systems as well as connection to systems for building management, e.g. usage billing

Barleben lies on one of the most important North / South routes between Magdeburg and the old Hans-eatic town of Stendal, in the Altmark. With over 6,000 residents, Barleben, whose records go back to 1062, is the largest community in the Ohrekreis and has experienced a rapid growth in recent years, positioned as it is at the edge of the Ostfalen Technology Park.

After the reunification of Germany in 1989 and as part of the move towards local self-government after the initial process of democratic rebirth, the three communities of Ebendorf, Barleben and Meitzendorf united to form the Mittelland administrative cooperative, whereby the original communities maintained their political independence.



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