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Nikolauspfl ege Stuttgart installs an innovative web alarm and amok warning system with digitalSTROM and smart business apps

The Nikolauspfl ege Organization operates a large number of facilities in the German state of Baden-Württemberg. At several of its locations, for instance in Stuttgart, Heidenheim, Mannheim, Weinheim and Welzheim it offers a variety of out-patient and in-patient services tailored to the needs of blind and vision impaired patients as well as individuals of all ages coping with multiple handicaps.

Schools today find themselves confronted with the ever increasing complexity of security problems. The threatening scenarios include everything from spectacular risks, such as terrorism and arson to almost daily attacks in the form of theft and vandalism. The existing security equipment is frequently unable to keep up with these growing demands.



Nikolauspfl ege

Given these circumstances, the Nikolauspfl ege has developed a prevention and safety concept based on the respective risk scenarios and protection goals of the organization. Every school building, every type of school and the onsite conditions of every facility are different. Hence, the structural conditions were examined first and a technical alarm concept was subsequently developed.



The aim is to comply with the following standards among others:

- It must be easy to retrofit the alarm system in the existing buildings.
- It should offer maximum safeguards against misuse.
- It must send individual alarms to all individuals, rooms and locations in compliance with the respective alarm concepts (SMS, telephone, e-mail, Internet).
- Alarms must be triggered in the room/building and via mobile Internet App.
- It must be suitable for properties that cover vast areas

The organization chose digitalSTROM as the technology to network the rooms in its buildings.. One of digitalSTROM's advantages is that it allows the use of the existing 230 volt power lines for the transmission of the alarms within the building. As a result, it is possible to bypass the high expense of retrofitting cables in the building, which would also go hand in hand with construction activities.

To pass on the alarms to the in-house network and the Internet, the electrical installations are equipped with digitalSTROM terminals in the sub-distributors, while a server is connected to the main distributor. The broadcasting of the alarms is organized and controlled with the Eberle GmbH web software FEtronic. All locations that need to receive the alarm in the event of an incident are notified in real time.

In order to prevent false alarms and misuse, the switches that trigger the alarm system will be equipped with an RFID. It enables authorized individuals to activate the alarm by flipping a switch in the room, by tapping on a mobile Internet capable device (e.g. tablet PC) or via the in-house network. An individual alarm message can be initiated from any room.

Alarm-Box

To make this possible, every room is equipped with a newly developed alarm box, which does not only contain a voice output system, but also a digitalSTROM chip.



Software FEtronic includes an information system that manages escape routes, building floor plans and other information, so that in the event of a crisis, all required information is instantly available. This makes it possible to e.g. implement different protection concepts and alarm progressions. This flexible solution makes effective hazard management a reality. It is even possible to trigger a silent alarm paired with a targeted evacuation. Thanks to the Java technology the solution is based upon, it is possible to integrate other systems, sensors, barriers or video.

In cooperation with all of the affected units of the organization, the requirements were identified during the planning period and a concept was developed based on practical tests.

The overall concept was developed by the Eberle GmbH, a company headquartered in Elztal-Auerbach. The alarm system optimizes student and patient security in the care of the Nikolauspfl ege Stuttgart. It is considered a ground breaking security system for all types of new construction and existing buildings.

More info:

http://www.hq-eberle.de/Alarm_App/alarm_app.html