

From fire protection to access control

Electronic security
technology in the
building of the future



Fotos: Messe Frankfurt / Jens Liebchen

Access restrictions, video surveillance, fire and data protection - the demands on integrated security technology are increasing in the building of the future. That's why networking + security is one of the top themes at Light + Building 2022. While exhibitors will be presenting innovations in all aspects of home and building security in the Intersec Building product area in Hall 8, the Intersec Forum from October 3 to 6 will provide expert knowledge and an exchange of ideas.

Decision-makers from the planning, installation and operation of networked security systems can take advantage of the opportunity to exchange information and expertise with manufacturers, developers and researchers. At the Intersec Forum, as at the exhibitors' stands, the focus will be on the challenges of integrated security technology in the building of the future. Security applications, building automation systems and communication systems - these are three examples of major trades and their networking in buildings. The challenge is to operate them interoperably. To achieve this, experts must bring together the still different, partly proprietary, partly standardized protocols and interfaces on a uniform interface with ergonomic user interfaces. Another requirement is resilient system openness in the sense of cyber security. Security technology is thus developing into an interdisciplinary topic that requires expertise from a wide range of disciplines.

Artificial intelligence and biometrics

Security technology is also characterized by the existence and evaluation of masses of digital data. Automated data evaluation in real time - by means of artificial intelligence (AI) - and cloud-based integration of systems bring new possibilities for controlling flows of people and anticipating as well as preventing security

situations - keyword: tracking and predictive security e.g. in video surveillance.

Fingerprints, iris scans or voice recognition as bio-metric features already make payment transactions more secure and „unlock“ access to smartphones or tablets. Biometrics as a form of authentication is therefore tailor-made for controlled access control - smart access - in sensitive infrastructures, commercial buildings and rooms, and in residential environments. The technical challenge can be mastered using Building Information Modeling (BIM) methods and new concepts for remote services of alarm systems.

Fire protection concepts and digital assistance

Fire protection concepts are mandatory: They save lives, increase safety and can reduce construction, operating and insurance costs. For building owners and planners, this means familiarizing themselves with a complex specialist topic. Both are responsible for implementing these regulations and are best served by the integrated planning, implementation and regular testing of a comprehensive fire protection concept. Digital assistance is at hand as connectivity, remote services, and digital operations books help manage these responsibilities. The latest technological and regulatory developments in the field of fire protection are also in the spotlight when it comes to fire protection in the context of building renovation. Conference attendance at the Intersec Forum is included in the Light + Building Autumn Edition ticket price.

Electronic security

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