



Essen, September 20, 2022

From September 20 to 23, 2022 at Messe Essen

Security Trends at Security Essen 2022

Focus on Cyber Security, AI and SaaS

Many exhibitors will again be presenting their products from September 20 to 23, 2022, at the leading fair for security and fire safety. Technological advances in IT and the networking of trades are increasingly powerful drivers of new ideas and products. The most important trends include:

1) Cyber security

The increase in the networking of trades and systems, together with ever-growing volumes of data that must be processed, make cyber security a No. 1 topic. The danger from hackers, whether in industry, authorities or the private sphere, is on the rise, and cyber hacking is now a billion dollar business with institutional hierarchies and bands organized like companies that have huge financial resources. The attackers use advanced tools like AI, machine learning and automation, with the result that all networked products in the security and fire safety sectors are now at risk unless they are adequately protected. Cyber criminals are also targeting digital communication. The result is an urgent demand for solutions that address these risks in terms of hardware and software. Cyber security plays a central role with all security products, and so manufacturers rely on their systems being protected. They include Genetec (Hall 5, Stand 5C40) with its video management software. TAS (Hall 7, Stand 7D17), with its TAS Secure Platform, offers a certified solution for remote access to alarm systems. Barox (Hall 5, Stand 5B19) offers its video switches with their cyber security functions. In its portfolio, ACRE International (Hall 7, Stand 7C24) has solutions for protecting security networks and the data protection landscape in businesses.

2) Artificial intelligence continues to gain ground

Cameras, sensors and IoT devices of all kinds are generating ever larger data volumes that have to be analyzed and evaluated as rapidly as possible with the aim of reducing false alarms, optimizing response times and greatly improving the level of security. Processing and evaluating large quantities of data – especially with video surveillance



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systems – is now done by analyses tools that are built into the actual cameras (edge computing) or are part of video management solutions. Many manufacturers of video camera systems and applications rely on artificial intelligence (AI) and ‘deep learning’ methods that are needed to analyse their large data volumes, something that humans in control centers can no longer do. In video surveillance in particular, learning systems have now become standard practice for managing the myriad of information. The hardware also incorporates many analysis functions that save bandwidth, as demonstrated by Dahua (Hall 5, Stand 5D31) and Hikvision (Hall 5, Stand 5C17) with their network cameras with edge functionalities. Vivotek (Hall 5, Stand 5F2) also deploys AI and deep learning in its video systems. Davantis (Hall 5, Stand 5B23) and Hexagon (Hall 8, Stand 8A10) use AI solutions for complex detection environments in their video analysis and management applications.

3) Drones – Their opportunities and risks

Drones are becoming increasingly powerful and efficient, and can perform a number of tasks ranging from delivery services to surveillance. In the business sector they support security services with a wide variety of tasks: in case of fire for example, they use different types of cameras to generate images of environments which would be hazardous for humans. And with the appropriate sensors they can identify toxic hazards. Police forces use them to record and preserve evidence of accidents, while big businesses are planning to use drones for services such as parcel delivery. And yet drones can also pose a threat when used for espionage, for penetrating secure zones such as around airports, or for transporting illegal goods. It is therefore essential for businesses to be aware of which legal options for detection and defense exist for drones in Germany. Dedrone (Hall 6, Stand 6F27) and Magos (Hall 5, Stand 5C15) offer drone detection products, while drones for use for aerial surveillance are part of the range offered by Security Robotics Development & Solutions (Hall 5, Stand 5C29.17).

4) Mobile applications

Mobile phones and tablets have become standard as terminals for security-relevant applications in the security and safety industries. Many manufacturers rely on apps that can be used by applications, devices and processes to remotely control, monitor and parameterize themselves. Mobile phones can also be used as electronic keys for access control. Corona has also given the use of private devices a further boost with the catchphrase ‘Bring your own device’ (BYOD). At the same time, these devices have to be protected from unauthorized use and hacking, calling for appropriate



protocols and interfaces. Rohde & Schwarz (Hall 6, Stand 6B15) for instance offer solutions for mobile terminals that guarantee data security. LEGIC (Hall 6, Stand 6A37) offers products for mobile authentication, while at Beesecure (Hall 7, Stand 7E17) the focus is on the remote control of applications and systems.

5) Cloud and as-as-service models

Experts are predicting a volume of billions for the global market for public cloud app services. Cloud applications and resources enable businesses to use essential services without their own data infrastructure – and from anywhere. At the same time, such solutions must be freely scalable and flexibly adaptable to meet future changes in requirements. Cloud-based services cover almost all areas of security technology, from access control through video surveillance and alarm management to AI analysis applications. A cloud video management system is available from Eagle Eye Networks (Hall 5, Stand 5C22) for example. Complete cloud-based solutions with links to a high-security computer center are available from Blue Mobile Systems (Hall 5, Stand 5B13), while SALTO (Hall 6, Stand 6B27) offers cloud access solutions.

For more information and tickets, visit: www.security-essen.de