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MAGAZINE FOR SAFETY AN[D]

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Dear Readers,

We are very excited to present you a preview of our virtual industry event for safety & security, WIN>DAYS, in this issue on page 10. With special shows on the topics of Civil Engineering, Healthcare & Hygiene as well as Automation, Machine Vision & Photonics, this year's edition will be held June 7th to 9th. We have created a very interesting conference program and you will have the chance to meet many vendors on the virtual show floor. You should not miss this opportunity.

The discussions about the best new products in our annual jury meetings for GIT SECURITY AWARD are always very vivid and sometimes controversial. The result of our pre-selection can be seen on page 18 following. I am sure that we have selected a best of breed of security and safety products. Now it is up to you to make your choice. To vote for your favorite in each category please go to www.security-award.com and vote there. Voting starts June 1st and will be open until the end of August and we will present the winners in September.

In this issue we have a strong focus on access control solutions especially in a high security environment. Starting on page 42 we present industry best-practice, give you an overview about the latest trends and we have asked five leading manufacturers about their approach for biometric sensors.

Stay safe and enjoy reading this issue!

Heiko Baumgartner
For Wiley's Safety and Security team

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inter airport Connect 2021 Goes Digital

The first inter airport Connect event took place online from 20–21 April 2021, and provided a much anticipated trade and networking event for the global airport community, which has been seriously impacted by the ongoing Covid-19 crisis. The event was a two-day online trading, networking and webinar event for airport professionals where visitors could virtually meet relevant exhibitors, browse informative product presentations and follow webinars on current industry trends. The meeting place for the international airport community featured a high-quality webinar program presented by key players in the airport industry which provided an opportunity to gain useful insights into the latest market developments as well as technical expertise concerning new industry applications and solutions. Key players from the industry as well as trade bodies provided exclusive insights into latest technologies and case studies on subjects such as the Smart Airport and sustainability. **www.interairporteurope.com**

Milestone Systems Delivers Successful Result in a Challenging Year

With a solid Covid-19 continuity plan, a strong focus on people retention and new ways of collaborating with partners, Milestone Systems achieved a net revenue of DKK 1 billion in 2020, a decrease of 1% compared with 2019. The operating income (EBIT) was DKK 112 million, a decrease of 9%, reflecting the pandemic's impact on sales, an increase in development capacity, and investments in new head counts to fuel future growth. It was crucial for Milestone to avoid restructuring while supporting its people, so the Grow Together program was launched that focuses on mental and physical health and knowledge-sharing about exercise, food, and sleep. The company was able to increase the number of employees by 69 to a total of 934 at the end of 2020. When the pandemic hit, it optimized its support to help partners keep selling Milestone solutions. Product training went online with webinars attracting thousands of partners and the Milestone Care campaign helped partners to continue their business without having to be onsite. **www.milestonesys.com**

PureTech Welcomes New Vice President of Sales

PureTech Systems is proud to announce and welcome Mike Chaffee as the Company's Vice President of Sales. Mike has been an experienced leader in the security industry for over 25 years, with extensive intelligent sensor solutions, thermal imaging, and detection analytics acumen. Prior to joining PureTech, Mike served as Director of Sales with FLIR Systems' Security Division where he managed revenue generation for the North American critical infrastructure verticals. He holds a BA degree from The University of Wisconsin, and is a Certified Thermographer through the FLIR Infrared Training Center. "I am honored to join the exceptional team at PureTech as Vice President of Sales" said Mike Chaffee. "Having collaborated with them for over a decade on perimeter detection solutions, I now have the good fortune to contribute directly to the growth and innovation of a company I have long admired." **www.puretechsystems.com**

Mike Chaffee

Through the Digital Product World in the Virtual Showroom

SimonsVoss is now offering technology and system partners the opportunity to take an informative tour with customers through the digital product world in its new virtual showroom. This showroom can be used to present systems in a personalised format and give customer consultations with direct help from videos and brochures taken from the media library. On request, SimonsVoss partners can also act as virtual sellers (avatars) and attend to their customers in real time. They can click on SimonsVoss System 3060 products individually on a sample wall in the virtual showroom and enlarge and rotate them through 360° if they wish. **www.simons-voss.com**

Foxstream Joins Hikvision's Heop Program

Hikvision, an IoT solution provider with video as its core competency, has announced that Foxstream has joined the Hikvision Embedded Open Platform (Heop) program with the Fox Intruder edge-based intrusion detection solution, which is now available for Hikvision's range of DS-2TD2137/VP thermal cameras. Fox Intruder can now be embedded directly into thermal cameras at the edge to provide an end-to-end solution for high security perimeter protection. This solution requires less bandwidth and has lower latency than server-based solutions. Users simply enter a camera's IP address into the browser to access the Heop application, which provides real-time visualization based on alarm triggers and video event playback. An API is available for integration with other platforms. Hikvision's Heop program provides a platform for third-party technology partners to develop their own applications and install them directly into Hikvision cameras, which brings a greater variety of intelligent functionality directly to customers. **www.hikvision.com**

Amthal Fires Up Growth Plans with New Appointment

Fire and security specialist Amthal is continuing on its ambitious growth plan to service more commercial customers, with dedicated appointments to the supply chain team. Peter Lee has been appointed to the 'Purchasing Supply Chain' to strengthen the commercial division of the business, enabling a more efficient approach to servicing new and existing customer requirements for fire safety and security. Amthal is recruiting for two sales account managers, alongside a number of engineering roles in commissioning, maintenance and installation. Amthal also has an active apprentice program, to encourage job-specific skills and create a more open business environment. Amthal is now proactively preparing customers for the imminent arrival of the Fire Safety Bill. Currently in its final stages prior to Royal assent, it is described together with the Building Safety Bill as 'the biggest change in building safety for a generation'. **www.amthal.co.uk**

Peter Lee

iLoq collaborates with Hartela

iLoq has signed a framework agreement with Hartela Etelä-Suomi Ltd. Through this agreement, iLoq's locking solutions will continue to play a significant role in Hartela's real estate portfolio. About half of Hartela's sites to be built in southern Finland will be equipped with iLoq's S5 digital locking and access management solutions. "We are delighted to be working together. For iLoq, the agreement with Hartela is a testament to the fact that digital access management is the right solution for properties under construction. Digital access management will replace mechanical locking in future," states Toni Päivinen, iLoq's Finnish Sales Director. The agreement aims to increase cooperation between iLoq and Hartela, and will bring iLoq's battery-free locking and access management solutions to more and more key users. **www.iloq.com**

HID Global Cloud-Based Multi-Factor Authentication

HID Global has announced the general availability of their Workforce ID Authentication solution, the latest addition to its cloud platform for issuing, managing and using identity credentials in physical and digital workplaces. It builds on the company's proven and widely deployed multi-factor authentication platform for consumer applications, including online and mobile banking, and joins a growing suite of employee ID badging, visitor management and other trusted workforce identity solutions. The solution enables organizations to provide a streamlined, simple and secure login method to every user and application. It easily integrates with Microsoft's on-premise Active Directory (AD) or cloud-based Azure AD, and includes multiple authentication factors such as HID ActivI DTM one time password tokens and security keys, smart cards, and the HID Approve mobile app that enables users to authenticate to applications and to deny fraudulent login attempts via their phone. **www.hidglobal.com**

Gautam Buddha International Airport Deploys Sepura SC20 Tetra Radios

Gautam Buddha International Airport has become the second airport in Nepal to deploy a Tetra communication solution, following on from Tribhuvan International Airport. Sepura's SC20 radios provide loud, clear audio, suitable for use in outdoor environments at Gautam Buddha Airport in Nepal. The solution will be led by Sepura SC20 hand held radios, providing the airport's security and operations team with the standard of secure, robust, reliable communications devices required to safely manage operations. The mission critical communications solution, built on Teltronic's Tetra infrastructure, is part of the airport's wider infrastructure upgrade. When complete this will ensure the airport is classed as Nepal's second international airport, able to ease the burden on Tribhuvan. The Tetra network will allow the airport to respond to the pressure of moving passengers, luggage and cargo at the airport site, improving both efficiency and safety. It will also enable co-ordination between the airport's security and operational teams for everyday operations and, where necessary, emergency response. **www.sepura.com**

Onvif Reaches Milestone of 20,000 Conformant Products

Onvif has announced that more than 20,000 security products are now conformant to its various profiles. This new milestone underscores the strong market demand for the interoperability of hardware and software offerings and the relevance of Onvif as a leading driver of open standards within physical security. "The mission of Onvif is simple – to provide and promote open interfaces that in turn will increase freedom of choice for end users," said Leonid Levit, chairman of the Onvif Steering Committee, "and there is no question that the market regards interoperability, through Onvif conformance, to be a fundamental requirement in our industry." The number of conformant products has grown rapidly as Onvif surpassed 10,000 conformant products in 2018. The forthcoming Profile M Release Candidate for metadata to be finalized later this year is expected to drive further growth in the number of conformant products to meet interoperability needs in new operational environments, such as in the cloud and with systems running advanced analytics powered by artificial intelligence. **www.onvif.org**

Contactless Biometric Temperature and Mask Detection

Gallagher Security and Invixium announced a next-level integration between Gallagher Command Centre and Invixium's IXM WEB software. As part of their Covid-19 response, Gallagher and Invixium collaborated to develop an integrated, user-friendly solution to address the global market's immediate, health-oriented needs. IXM Titan with Enhancement Kit is Invixium's flagship biometric reader and hallmark of its Covid-19 solution, which delivers simultaneous face recognition and elevated body temperature detection at the medial canthus (tear duct). Through this integrated solution, Titan will now communicate health events such as temperature screening and mask detection to Gallagher's security management platform, Command Centre. Alarm notification events – such as elevated body temperature or the absence of a face mask – will be captured in Command Centre's Alarm Viewer. Furthermore, this seamless integration allows users of Command Centre to perform biometric enrollment and device management directly within the Gallagher software, along with two-way synchronization of cardholders and access groups. **http://security.gallagher.com**

i-Pro Secure VA Hospitals Program Addresses Long-standing Challenges Faced by Medical Care Professional

Panasonic i-Pro Sensing Solutions Corporation of America announces the launch of i-Pro Secure VA Hospitals. The new initiative recognizes and supports VA hospitals and healthcare facilities with a comprehensive program of integrated surveillance and security solutions that delivers the tools, technology and support needed to keep organizations safe and secure. "VA hospitals have their own specific security, operations and health safety challenges that require individual attention and customized system solutions," said Bill Brennan, President, Panasonic i-Pro. "We developed the i-Pro Secure VA Hospitals program to deliver the holistic system solutions that America's heroes, and the healthcare professionals caring for them, need to nurture the best possible outcomes." **https://business.panasonic.eu**

Business Protocol Enforcement

Buyers of video technology are focusing increasingly on business protocol enforcement applications, in addition to traditional security, say Idis America and virtual guarding and monitoring service partner Virtual Management Intelligence (VMI). The two companies are working together to deliver AI-supported remote surveillance services, including business operations monitoring. In transportation for example, Idis video is being used by VMI to improve monitoring of 24-point vehicle safety checks which must be carried about by drivers to ensure compliance with Department of Transportation (DoT) requirements. **www.idisglobal.com**

New Look and Feel for Securiton's Technology Brand IPS

Securiton Germany is setting new accents for its IPS brand. With the new design, Securiton underscores its revamped sales and communications strategy, which in the Video business unit is aimed at customers in the security and high-security sectors – including industry, the energy sector, public authorities and the military. In addition to the primary target market of Germany, the focus is also on other European countries such as France, Great Britain, Spain and Norway, especially for the partner-licensing business. Ralf Heinrich, Head of Marketing at Securiton Germany describes the new brand orientation. The familiar look of the IPS Intelligent Video Analytics technology brand is undergoing a modernised transformation, now adapted to the umbrella brand: for a more uniform overall look, the size and typeface of the IPS lettering have been aligned with the logo of the Securiton brand. **www.ips-analytics.com**

Beauchamp City Sixth Form Excels at Fire Safety with Comelit

Comelit has supplied its Atena fire detection panels to the newly opened Beauchamp City Sixth Form, to ensure the ongoing safety of staff, pupils and visitors. Based in the heart of Leicester, Beauchamp City Sixth Form has recently opened its doors for its first term to welcome 350 A-Level students, following a dramatic renovation of a city centre office block, formerly home to BT. The new four-storey college, opened by The Lionheart Academies Trust, presents classrooms, labs and IT suites, as well as study spaces and a library which will give students access to the latest academic research in their chosen areas of study. To ensure fire safety as part of the transformation process, main contractors worked with Avalon Technology Group, who specified Comelit's innovative Atena fire panels to operate across the site. Principal of the sixth form, James McKenna, said of Leicester's newest post-16 provision: "Beauchamp City Sixth Form is an incredible new asset for both Leicestershire and the wider region. There is a long history of scientific and technological achievement born in the Midlands and this sixth form will help a diversity of learners take their ambitions as far as possible. **www.comelitgroup.com**

Essex and Metropolitan Police: Echo-connected by 1st October 2021

Echo (Electronic Call Handling Operations Ltd) has announced Essex Police and the Metropolitan Police jointly issued notice to their registered Alarm Receiving Centres (ARCs) to be ECHO-connected by 1st October 2021. Chief Superintendent Ewen Wilson, Head of Contact Management Command, Essex Police said: "From the outset we have been at the forefront of the transition from existing telephone call handling of alarm activations to a modern, fully automated solution providing tangible benefits, including the reduction of call handling demands and police response times. Having been the first police force in the UK to successfully test and adopt the new process, we have every confidence in the delivery of this new automated service. After careful consideration, Essex Police are now giving notice to registered ARCs that we expect them to become Echo-connected by 1st October 2021 in order to retain police response for verified alarm activations of Intruder and Hold-Up Alarm Systems." **www.bsia.co.uk**

Integration of Wireless Locks and Access Control Management Software Saves Money

Axis Entry Manager customers can now extend access control efficiently and affordably with Aperio battery-powered locks from Assa Abloy. Online integration of the Axis A1001 Network Door Controller with Aperio cylinders, escutcheons and locks gives facility managers real-time control over more doors. Administrators continue to manage every locking point from one Entry Manager interface, saving time and removing the need to carry out extra training. The A1001 network door controller operates on a flexible platform, built to adapt the changing needs of site's security. Battery-powered locks can be controlled from the same web interface as wired door devices. An RS-485 hub coordinates up to 8 Aperio devices within a 15 to 25-meter range. AES 128-bit encryption secures all communication between locks and security system.

www.assaabloyopeningsolutions.com

Panasonic i-Pro Partners with Genetec

Panasonic i-Pro Sensing Solutions Corporation of America is partnering with Genetec to offer a cloud-based digital evidence management system (DEMS) for law enforcement customers. Cloude Powered by Genetec is a new solution that offers the added versatility and option of storing video evidence and data in the cloud versus on-site, which is much more convenient and cost-effective. Cloude Powered by Genetec works directly with Panasonic i-Pro's industry-leading body-worn cameras (MK3 and BWC4000) and in-vehicle camera (MK3 and VPU4000) systems, and it allows law enforcement agencies to retain complete ownership of all evidence and metadata. Additionally, officers and investigators can gather digital evidence from a variety of sources, and easily store, manage, review and share it from within a single application. Cases and digital evidence can also be shared with different parties, and access is controlled through security policies managed in the application. Plus, audit trails log all user actions to maintain the chain of custody and are available for management review at any time. **www.i-pro.com · www.genetec.com**

Winsted: New EMEA Sales Director

Winsted Control Room Consoles has announced that Andy Graham has been appointed as EMEA Sales Director. Andy's appointment comes as part of a reorganisation of the leadership team at Winsted. The aim of the reorganisation is to further strengthen the company's long-standing customer relationships and strengthen the brand further across the EMEA region. Joining Winsted from Legrand, Andy brings with him over 25 years' experience from the AV industry. Speaking on his appointment Andy said "I am really excited to be joining Winsted at such

Andy Graham

an exciting time. I'm looking forward to building on the success the brand has already achieved by working with our partners and customers and take on the challenges that the role will bring". Lee Schalk, Vice President of Sales at Winsted commented: "On behalf of Winsted I am delighted to welcome Andy. Andy is highly regarded within his field and will be a huge asset to the team giving us the ability to better serve our customers. We're thrilled to have him on board and wish him every success." **www.winsted.co.uk**
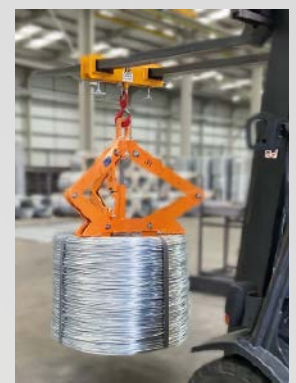
Registration for The Security Event at the Birmingham NEC is Officially Open

One of the strongly anticipated events of 2021, The Security Event will be opening its doors on 7-9 September at the NEC Birmingham. After 18 months of no physical events, The Security Event will be reuniting the security industry over three days of business interaction. As one of the biggest events in the UK security sector, combining a large-scale exhibition with a topic-driven agenda and exclusive networking opportunities, it is one of the events industry experts will need to attend this year. **www.thesecurityevent.co.uk**

Zaun invests in Coil Grabber

Zaun is dedicated to improving working practices wherever and however possible. With that in mind they are in a constant state of infrastructure investment, to better allow themselves to meet the ever-developing needs of our customers. It's essential the efficiency is married with the health and safety of workforce, however, so this is a constant consideration. Zaun announces the investment in a brand new Pfeifer three tonne wire coil grab. The wire coil grab is going to allow them to lift coils with greater safety and efficiency. Installed in the Zaun mesh manufacturing facility, where the team is already beginning to see the benefits it can offer. The wire coil grab allows vertical storage of wire, meaning there's no longer any need to roll the coils. Another clear benefit is that it offers consistent weight and height between individual packed coils, which makes storage that much more efficient. They are able to plan with regularity how many coils will be able to fit safely into a vertical stack, without the need for chocks. These stacked coils ultimately take up less space in the storage facility, and allow to bring even more uniformity to the manufacturing process. **www.zaun.co.uk**

WIN>DAYS – the virtual industry event for safety & security. With special shows on the topics of Civil Engineering, Healthcare & Hygiene as well as Automation, Machine Vision & Photonics. Top picture: the Welcome outdoor area

The Wiley trade journal group, including GIT SECURITY, messtec drives Automation, inspect, PhotonicsViews, Management & Krankenhaus, as well as the trade journals of Ernst & Sohn, will once again be organising in 2021, together with renowned companies and societies, the virtual Wiley Industry Days, or WIN>DAYS for short. Among the important topics, with market and technology-leading companies in safety & security – as well as in special shows on related fields of innovation and areas.

Wiley Industry Days

WIN>DAYS
7–9 June 2021
www.WileyIndustryDays.com

TALKS, LECTURES, PANEL DISCUSSIONS

For full conference programme see: www.WileyIndustryDays.com

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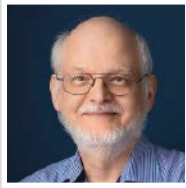
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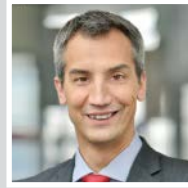Andreas Seltmann, Business Moderator

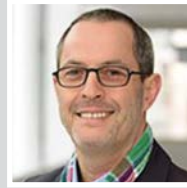Denis Masur, Interkey

Prof. Dr. Bernd Jähne, EMVA

Matthias Bohnert, Securiton

Prof. Dr. Arno Weber, VDSI

Karsten Schneider, PNO

Gerhard Ertl, Clinic of Darmstadt

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Jan Kortmann, Technical University Dresden

Sebastian Brose, VdS

Stephan Roth, PCS

Ralph Siegfried, Axis

Laura Lammel, Lammel Bau

The complete program is listed on wileyindustrydays.com

◀ **A small preview of some of the rooms:**
WIN>DAYS presents exhibitors, speakers and guests from the fields of security, safety, civil engineering and architecture, hygiene and healthcare, automation, machine vision & photonics. To hear and see there will be products, solutions and trends on the topics of the sectors – for the decision-makers in the sectors. In the exhibition halls and in the conference programme in the digital auditoriums.

Virtual Beach Party:
Monday, June 7, 2021, 5pm.
Registration:
www.WileyIndustryDays.com

Dr. Anja Opitz is responsible for the "International Politics and Security Policy" department at the Academy for Political Education in Tutzing, Germany. She conceives and leads symposiums, expert forums or seminars that are held for various disseminators – currently, for example, a seminar on the strategy ability of the German Bundeswehr in the context of the global security architecture. The Academy aims to bring science and practice together – so Opitz also concerns herself with research into the nexus between health and security as well as with the European security and defense policy. She is also President of the Global Health Security Alliance (GloHSA). Matthias Erler from GIT SECURITY spoke with Dr. Anja Opitz.

INTERVIEW

The Risks of a Globalized World

On the Logic of Pandemics – and the Clever Way of Handling Them

GIT SECURITY: Dr. Opitz, since its foundation on 1957, the Academy for Political Education in Tutzing wishes to contribute to political education – for the political and scientific worlds through to the general public. Which target groups do have in sight with this research? Can companies also benefit from this?

Dr. Anja Opitz: The Academy is a forum for information, research and conversational exchange, but also a place for networking for representatives of politics, business, science, the public, media or education. We employ an interdisciplinary approach in all our various activities. Companies also belong to our disseminators that appreciate these events because they obtain expertise specifically relevant to them. To give just one example from my department: there are companies that invest in regions that are affected by conflicts. Employees can therefore obtain training from us on the corresponding conflict structures or security relationships.

There have been warnings for a long time both from yourself and from the general scientific community about global pandemics. In 2012 there was a risk analysis made for the Federal Republic of Germany in which even the Coronavirus was mentioned …

Dr. Anja Opitz: Yes, in the recent past it was in particular the two Ebola epidemics of 2014/2016 in West Africa and 2018/2020 in the Democratic Republic of Congo as well as the SARS pandemic of 2002/2003 that brought the awareness of such challenges

sharply into focus. The report on risk analysis in civil protection from 2012 that you mentioned also included the scenario of a pandemic, initiated by the fictive virus 'Modi-Sars', and it provided a corresponding risk portfolio for Germany. Such analyses however only form a good basis for prevention if they are regularly checked and updated, and this was sadly not the case here.

Then let's talk a little more in detail about the current Corona pandemic. To start with: such a pandemic is really quite a common occurrence – just not in our latitudes or worldwide like right now?

Dr. Anja Opitz: Epidemics, that is the appearance of a highly infectious disease in a regionally limited area, do occur frequently. The risk of a global spread to become a pandemic increases significantly in a globalized world for various reasons. SARS spread in 2002/2003 quicker as its pathogen could be identified, a Coronavirus unknown until then. So-called zoonoses, infectious diseases that are transmitted between animals and humans, are one of the main causes of epidemics. The mobility of humans is increasing; they are potential carriers of pathogens and thereby assist their global dispersion; Covid-19 showed us how. Even Europe can be a starting point for endemic infectious diseases. In 2019, the first infectious cases of the West Nile Virus were diagnosed in humans in Germany. The virus is capable of surviving winter here; longer and warmer summer periods promote the spread, according to an estimate of the Robert-Koch-Institute (the German federal government agency and research

matter of digitalization in case analysis? Will we be able to develop global indicator systems for the identification of potential dangers and, above all, are countries ready to invest in them?

In our earlier conversation, you gave an example that even large international organizations were only allegedly, but in fact not sufficiently prepared for Corona. Where was the problem?

Dr. Anja Opitz: If you compare the results of the annual Global Risk Report of the World Economic Forums, it becomes clear where the problem lay: it was always understood that such crises not only affect the health sector, but also mean massive sacrifices for commerce and society. But the likelihood that these major events would happen globally and to such an extent as we are currently experiencing with Covid-19 has been consistently underestimated in recent years.

Should companies prepare themselves for pandemics in a similar way to other global phenomena such as the increasing cybercrime, the climate change etc.?

Dr. Anja Opitz: Yes. The occurrence of such hybrid challenges or threats will be ever more likely in the future. Pandemic risk management should therefore be an integral part of every business continuity strategy. Or round the other way: business continuity should be based on a risk evaluation of the potential effects of an epidemic or pandemic on the company. And this requires a comprehensive understanding of the causes of these so-called cascading phenomena.

Dr. Anja Opitz
is a speaker at WIN>DAYS,
7–9 June 2021.
Infos on
www.WileyIndustryDays.com

Dr. Anja Opitz heads up the 'International Politics and Security Policy' department at the Academy for Political Education in Tutzing – and she is President of the Global Health Security Alliance (GloHSA)

Can the fundamentals of crisis management also be applied for such pandemics? The installed processes have often not been effective?

institute responsible for disease control and prevention). In Greece and Italy we experienced the return of cases of malaria, to mention just a couple of examples.

One could then say, in principle, that knowledge of the best way to deal with pandemics is to a large extent widespread around the world – we just have to come to the right conclusions?

Dr. Anja Opitz: No country can be one hundred percent ready for a pandemic of course. But there are various experiences, research results and best practice strategies available to provide support, and from which one should deduce the lessons for the future. It is astonishing that, even in 2019, the Global Health Security Index showed in its results that countries are either hardly or not at all prepared for catastrophic events such as pandemics or epidemics. I am of the opinion that we must deeply reconsider the fundamental core of preventive measures. Do we continue to ignore cooperation with the vetinary sector with regard to 'health security'? How do we include the

Dr. Anja Opitz: Crisis management is a very broad term. My view of it is influenced by my interpretation of the general German term "Sicherheit". In the English language, it can be clearly distinguished between 'security' and 'safety'. On the one hand it is about ensuring security through reaction and prevention; on the other hand it is safeguarding. If you focus on the aspect of prevention, this is the recognition of various dangers, the understanding of their complex causes, the development of corresponding scenarios and, building on that, the calculation of the resources needed for risk-minimizing steps. And the usual approach toward faults or potential interruptions of processes with a view toward (human) resources is not sufficient. The key is the networking of competence from different industries and the resultant regular exchange of information.

In spite of all preparation, there can hardly be any really effective formula to deal with the interruption of supply chains. What fundamental options are available in your view for companies to rescue their business models during such crises and to quickly be back up to speed?

Dr. Anja Opitz: I believe the following elements are at the core: pandemics have their own functional logic. In a similar way to conflicts, they follow a – let's call it – pandemic circle. They mostly progress over a long period of time and go through various different phases. This requires a high degree of flexibility and adaptability from the various industries. The development of a company-specific warning system that can recognize the relevant uncertainties and risk dependencies in various phases of the pandemic would therefore be essential. The corresponding business model would have to be measured and tested during these periods to survive the crisis.

How does it look for small and medium-sized businesses – do they also have appreciable potential to prepare themselves better?

Dr. Anja Opitz: This reminds me of a sentence contained in the WHO Influenza Risk Management Concept (2017): the business model itself can be a threat for the resilience and/or continuity of the business. That's why it is so important particularly for small and medium-sized businesses to ensure that their business model is able to develop some ability to resist external disturbances such as an epidemic or pandemic. And this includes the consideration that the period of time between two epidemics or pandemics will get shorter. My advice is therefore not only to focus on survival during the current pandemic but already to lay the foundation to be able to resist another crisis of this sort in the future.

To what extent can political frameworks and measures be improved to be better able to cope with pandemics in the future?

Dr. Anja Opitz: The current pandemic has shown that just the usual focus on strengthening and investing in the stability and effectiveness of the healthcare sector is not enough. Aspects such as discovering the causes within the veterinary sector come to mind, as do the buffering of the consequences of a pandemic for commerce and society, but also the security-related development, an aspect that is all too often negated. Fifty percent of the failed health projects globally are in countries that are affected by conflict and war. The secondary effects of the Covid-19 pandemic for these countries will be more severe than the commercial effects here in Europe. Countries of the international community should distance themselves from the usual nationalistic ways of thinking and invest in the multilateral bodies: in die UN, the WHO and die EU. Inter-departmental international crisis management requires a political commitment. And that means not just a reaction to a health crisis, but inter-departmental prevention. Amongst other things, this means establishing the resources required on the basis of the question: are we prepared with the right resources for a mass event such as a pandemic? Do we have the necessary intelligence capacity available to recognize dangers, also in the form of bioterrorism? Is there an industry-wide reporting structure?

You are also President of the Global Health Security Alliance (GloHSA). Could you broadly describe this association, its members and the tasks it has set itself?

> *Our experts are unanimous in the common opinion that healthcare, security and stability problems are having increasing and interrelated global effects that make a transnational and multi-sectoral approach to the reduction of threats necessary.*

Dr. Anja Opitz: The core element of the alliance is its interdisciplinary character: GloHSA is an independent, charitable non-profit association; a network of international experts from politics, science, the private sector as well as the security and healthcare sectors that we founded in 2017. Our experts are unanimous in the common opinion that healthcare, security and stability problems are having increasing and interrelated global effects that make a transnational and multi-sectoral approach to the reduction of threats necessary. The aim of GloHSA is to provide effective networking of the various stakeholders with decision-makers to produce concepts for the solution of global challenges in health security.

GloHSA offers analyses and advice. What role has the association played and is it currently playing during the Corona pandemic?

Dr. Anja Opitz: Many of our members are currently involved in work against Covid 19, amongst others in the USA, in France, the Ukraine, Great Britain, Germany, Belgium and Italy; whether it's on the medical side for the treatment of intensive care patients, through the support of our armed forces – for example in contact tracing as well as in the international support of African states – or as experts in the area of health security intelligence, it's all to do with the global collection of data on the spread of the coronavirus. In addition, we are currently trying to provide increased support in the development of national and transnational strategies and in the realization of crisis-related studies and scientific analyses.

The corona pandemic is to some extent 'nothing new' on a global scale. How do you see things developing from this point of view? Can you deduce from typical progressions when the virus will be largely overcome? Would you give a broad prognosis?

Dr. Anja Opitz: It would be very presumptuous of me to give a prognosis here because I am neither a virologist nor an epidemiologist. But what I can say from my point of view is that the development of various vaccines or other medical and medicinal treatment methods signifies a turning point towards the end of the pandemic. That doesn't necessarily mean that the pathogen itself has been overcome. I'm thinking here of other infectious diseases such as measles, HIV, malaria, polio etc. The aim is to stop the spread by interrupting or stopping the infection methods and thereby to be in a situation where a healthcare system does not reach the limits of its capacity because of an outbreak of some disease.

CONTACT

Dr. Anja Opitz,
International Politics & Security Policy
Academy for Political Education
Tutzing, Germany
Tel.: +49 8158 256 54
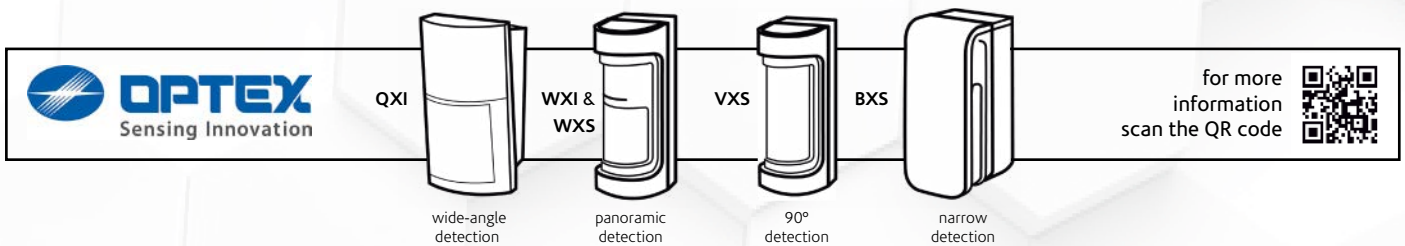a.opitz@apb-tutzing.de
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matrix module is a bi-directional universal radio interface for connecting third-party low power consumption motion detectors to the **lares 4.0** platform, at 868 MHz frequency band.

matrix BUS is a wired expansion board that gives the opportunity to add one zone to the control panel when connected to the Ksenia BUS. It also allows to connect any type of sensor to our BUS, with the objective of simplifying and optimizing the wiring: in addition to an input, it has a serial interface useful for connecting with **OPTEX** outdoor sensors range. Once connected to the matrix BUS, it is possible to carry out the configuration remotely through Ksenia SecureWeb, or via Ksenia PRO App.

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INDUSTRY REPORT

Pandemic Forces Cloud Solutions

A Report Commissioned by Genetec Highlights Cloud Usage

In January 2021 Genetec EMEA surveyed physical security professionals based in Europe, the Middle East and Africa on the state of physical security in 2021. Following a review of submissions and data cleansing, 1,550 respondents were included in the sample for analysis. Genetec EMEA has now shared this research into cybersecurity as a strategic priority and the accelerating adoption of cloud infrastructure for physical security.

The 'Physical Security in EMEA 2021' report takes a closer look at how physical security teams across Europe, the Middle East and Africa (EMEA) are leveraging technology to manage both short term needs and long-term priorities. The findings offer useful insights for those responsible for developing their organization's own infrastructure and security strategies.

The realities of Covid-19, and the subsequent shift to work at home, has emphasized the value of technology that can provide greater insight and control. As a result, video analytics, access control and identity management were all identified as strategic technologies for 2021.

Security and the Covid Pandemic

Already in 2020, physical security experts were confronted with a whole batch of restrictions that had an effect on daily procedures. The shift of workplaces from the office to the home revealed weaknesses in the use of operative tools, which showed hitherto unknown gaps in the cyber security of 46% of those questioned. Almost every second person who was questioned (48%) had to deal with fundamental deficits in infrastructure because of out-of-date systems and they recognized the need for modern system solutions. For around 60% of the security experts, the shift to home offices also made the work of their teams more difficult to protect all locations and branches of their company or their organization against physical security threats such as vandalism or break-ins.

The experts who were interviewed relied in particular on solutions for the detection of break-ins (39%), perimeter protection (36%) as well as remote functions (35%) to meet the new challenges of administration and the surveillance

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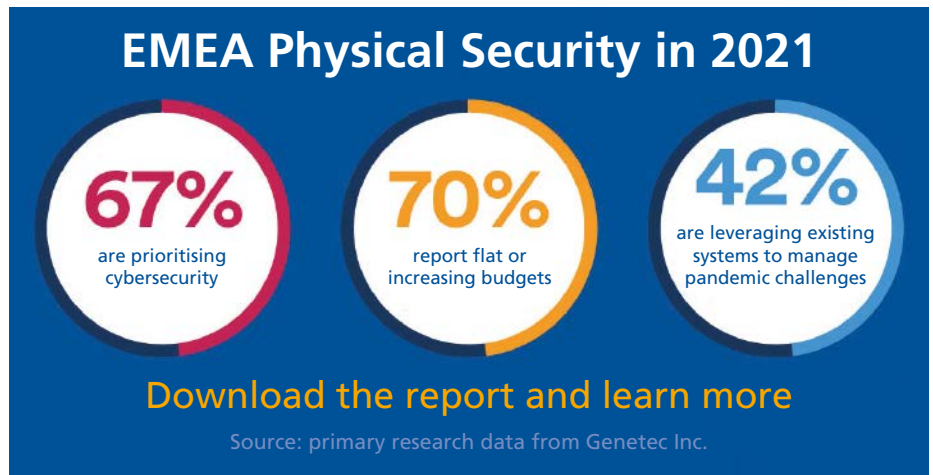
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of people and company property in conjunction with the Covid-19 pandemic and to support the operative processes during lockdown as well as during the course of the gradual return to the workplace.

"Last year we saw a seismic shift in the way companies approach security," said Cyrille Becker, managing director for Europe at Genetec. "The access control boom within facilities showed that the physical security industry is capable of streamlining innovative solutions – particularly when there's a demand for enhanced safety. As we enter a new chapter, the industry must continue to adapt to changing requirements and invest in the latest enabling solutions to help make our workplaces safer, healthier and more secure."

Cybersecurity is a Strategic Priority for 2021 and Beyond

Cybercrime is primed to reach record heights in 2021, with the rise of work-from-home and the growing adoption of IoT. Against this backdrop, 67% of respondents are planning to prioritize the improvement of their cybersecurity strategy in 2021.

"The rise of cybercrime has revealed that cyber and physical security measures can no longer be treated as separate conversations. Physical security professionals must partner with their counterparts in IT to understand the true limits of the security perimeter and mitigate against risk. This requires solidifying a resilient cyber-physical security framework, to ensure trusted devices are integrated in the network and subsequently configured, updated and managed throughout their operational life." said Christian Morin, Vice President of Cloud Services and CSO at Genetec.

EMEA Physical Security in 2021

67% are prioritising cybersecurity

70% report flat or increasing budgets

42% are leveraging existing systems to manage pandemic challenges

Download the report and learn more

Source: primary research data from Genetec Inc.

Accelerating Adoption of the (Hybrid) Cloud

Physical security departments have traditionally been slower to adopt the cloud, but the survey results indicate that the situation is rapidly changing. With almost two thirds of respondents reporting that the pandemic has somewhat (51%) or greatly (12.5%) accelerated their cloud strategy in relation to physical security.

Before the pandemic, only 37% of those questioned said that they were in the middle of shifting to cloud or hybrid cloud solutions for physical security. But the questionnaire showed that some two-thirds (63.5%) of the experts said that the pandemic had accelerated their cloud strategy with regard to physical security somewhat (51%) or significantly (12.5%). This contradicts the belief that many long-term infrastructure decisions within the company have been dropped or postponed because of the pandemic.

Although 76% of those questioned confirmed that projects had indeed been delayed during 2020, only 8% reported

completely cancelled projects. The results show that the migration to the cloud will progress rapidly during 2021 and beyond.

"The unprecedented shift to remote work and resulting need for supporting technology, has highlighted the importance of cloud computing and, if business leaders had not been convinced of its benefits before, they are likely to be now." added Morin.

For further insights and key takeaways on optimizing security operations, please download the full report (link below).

Download the report and learn more
https://bit.ly/2QviWed

GIT SECURITY AWARD 2022

The Finalists

GIT SECURITY team is proud to report that the award jury voted digitally on their favorite industry products. Now is your turn, dear reader, to select your favorite product and vote.

In the following pages, we will display all the finalists of each category.

- A – Safety, IT & Cyber Security for Industry and Automation
- B – Fire and Explosion Protection, Industrial Safety
- C – Video Security Systems (VSS)
- D – Access Control, Intruder Alarm, Perimeter Protection
- E – Safety and Security Management, Services and Solutions
- F – Special Category Smart Home & Residential

To have fair voting, companies cannot vote for their own product. Moreover, you will have to vote with your company address. Private persons are not entitled to vote. Therefore, a business address is essential. Select one product in each category.

Vote now – Voting is Possible from June 1 to August 23, 2021 on www.security-award.com

picture similar

Win the reader prize!

Select one favourite from each category to take part in the draw for the camera.

GIT
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2022
FINALISTS

WILEY

The Jurors ▼

Category A

Lisa Holland (Wiley), Dr Markus Winzenick (ZVEI), Birgit Sellmaier (VDMA), Dr. Timo Gimbel (Wiley), Steffen Ebert (Wiley)

Category B & D

Steffen Ebert (Wiley), Bernd Sassmannshausen (Merck), Heiko Viehweger, Joerg Crauser (BHE), Lars Komrowski (TÜV), Heiko Baumgartner (Wiley)

Category C, E, and F

Manfred Gügel (MNO), Lisa Holland (Wiley), Steffen Ebert (Wiley), Dr Heiko Baumgartner (Wiley), Dr Peter Schaefer (Merck), Peter Krapp (ZVEI), Thomas Kunz (vi2vi)
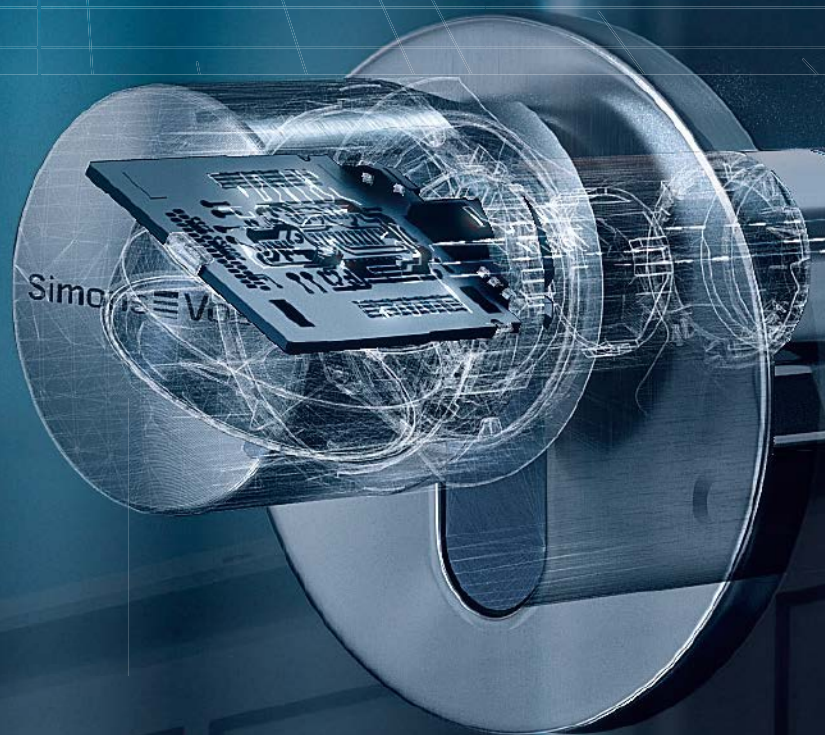
Category A
IT Security and Safety for Automation, Cyber Security

Dina Elektronik: Safeone DS
Safety Relay

The Safeone DS emergency stop relay combines ready-configured functional safety with simple commissioning and fast validation. Despite its small width of 22.5 mm, the stand-alone system covers the most important safety functions such as emergency stop, safety gates and operating mode selection, including standstill and speed monitoring. Thanks to preconfigured wiring and simple setting of the necessary parameters, the system is ready for immediate use and can be easily installed, especially in large quantities. The validation function directly creates a PDF file with all relevant safety data. The safety relay thus offers a cost-effective and easy-to-use alternative for all machines for which a freely parameterizable system is too complex.

Pilz: myPNOZ
Modular Safety Relay

The modular safety relay myPNOZ can be individually assembled and monitors 2 to 16 safe input functions such as emergency stop, safety gate, light grid, two-hand IIIA/C, etc. myPNOZ is manufactured individually according to customer requirements in batch size 1 and impresses with features such as the formation of safety zones, internal combination logic, narrow installation widths and reduced cabling effort. In the myPNOZ Creator online tool, the customer selects the required safety functions and the Creator puts together the optimal hardware for the individual solution. This solution can be simulated and verified in the tool before ordering. Each myPNOZ is custom pre-assembled, parameterized and tested in batch size 1. It is then shipped to the customer 'ready for plug-and-play'.

Kaspersky Labs: Kaspersky Endpoint Detection and Response (EDR)
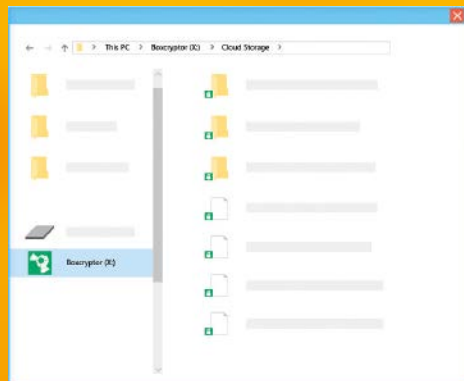**Analysis and Response to Complex Threat Scenarios**

Kaspersky Endpoint Detection and Response (EDR) is designed for automated analysis and defense against complex cyber threat scenarios. The scalable solution enables mid-sized organizations to benefit from comprehensive and automated detection, incident assessment, and effective response capabilities without increasing team size or burdening other in-house resources. With Kaspersky EDR, initial threat signs are detected faster, telemetry data is reliably analyzed, and EDR processes are fully automated. In addition to detecting complex threats across all endpoints, the solution provides a comprehensive view of each incident for investigation and regulatory compliance. History data can still be viewed even if the affected endpoints are no longer accessible, or the data was encrypted during an attack.

MB Connect Line: mbNET.rokey
Industrial Router with Security Chip and Secure Boot Concept

The mbNET.rokey industrial router enables secure access to machines and devices via the Internet. Thanks to hardware-based storage of certificates and encryption, data communication and the router itself are much less vulnerable to attack. A security chip (secure element) serves as a secure safe for passwords, certificates and keys. These can neither be read out nor manipulated. Process and application data are each stored in an encrypted container. The security of the router itself is ensured by a hard-coded boot loader (Secure Boot), which only accepts signed firmware updates that match the stored security certificate (Secure Firmware). With mbNET.rokey, plant personnel decide directly at the machine which connection type is possible: Offline: no communication possible, online: Data acquisition active, but no remote maintenance possible, remote: data acquisition active and remote maintenance enabled.

Rohde & Schwarz: R&S Trusted VPN Client
Softwarebased VPN Client

R&S Trusted VPN Client makes encrypted, mobile working even easier. The solution protects the network communication of a client platform (Windows laptop, tablet) with a government or corporate network via an untrusted network, such as the Internet. R&S Trusted VPN Client is the first software-based VPN client approved by the BSI. Since no additional hardware is required, encrypted, mobile work is possible without restrictions and employees can be connected to the corporate network quickly and easily. With the BSI approval, Rohde & Schwarz Cybersecurity is also opening up the use of the software-based security solution to new user groups from government agencies and companies that require a secure and practical solution for processing confidential data.

Schmersal: AZM40
Electronic Solenoid Interlock

With dimensions of 119.5 x 40 x 20mm, the AZM40, according to Schmersal, it is the smallest electronic solenoid interlock in the world. Despite its small size, the AZM40 has a high locking force of 2,000 Newtons. The solenoid interlock is suitable for applications up to cat. 4/PL e/SIL 3 (interlocking function). A series connection is possible without reducing the level of safety. The RFID-based safety sensors developed by Schmersal allow individual coding, therefore, the AZM40 offers the highest protection against manipulation according to the requirements of DIN ISO 14119. The AZM40 also operates according to the bistable principle, i.e. it maintains the current position even in the event of a power failure. This ensures safe operation in any operating state of the machine. At the same time, this reduces power consumption because the guard locking only needs to be energized when the door is to be locked or unlocked.

Secomba: Boxcryptor
Cloud Encryption Solution

The Boxcryptor encryption software allows you to securely store data in the cloud. The program supports all major cloud storage providers, for example, OneDrive, Google Drive, or Dropbox. With Boxcryptor, data is encrypted end-to-end and thus protected before it is sent to the storage provider. Boxcryptor creates a virtual drive on the computer. Every file stored within an encrypted folder is automatically encrypted in the background before stored in the destination folder. Especially in times when home offices are becoming more important, the significance of cloud computing is also increasing massively. Accordingly, it is important for companies to protect sensitive data quickly, easily and comprehensively, regardless of the knowledge of the user. Boxcryptor offers a secure solution for companies to work with files in the cloud.

SICK: scanGrid2
LiDAR Multi-beam Scanner

With scanGrid2, SICK is offering an economical safety solution for small, line-guided AGCs (Automated Guided Carts): The world's first LiDAR multibeam scanner with safe solid state technology. Thanks to its excellent price-performance ratio, large fleets of AGCs can not only offer efficient protection up to performance level c, but can also be made more productive. scanGrid2 enables the elimination of mechanical barriers as well as higher driving speeds and heavier loads on the AGCs. Its compact design and smart functions also ensures quick and simple installation, configuration and diagnostics.

Wibu-Systems: AxProtector Python
Intellectual Property Protection and License Management

CodeMeter Protection Suite helps software developers to encrypt generated native software or bytecode for .NET or Java. Encrypted components are protected against reverse engineering and can only be used with a suitable license. The Python programming language has enjoyed particular popularity again for some time, and is used in particular in the development of artificial intelligence and machine learning. Not least in industry, the protection of Python applications therefore plays a central role. As the newest component of CodeMeter Protection Suite, AxProtector Python adds the ability to encrypt Python functions and classes in the source code. It protects intellectual property and supports all of Wibu-Systems' license management capabilities. AxProtector Python is the world's first solution offering direct source code protection in a script language. This allows developers to use modern, open-source programming languages without the need to reveal their IP to the world.
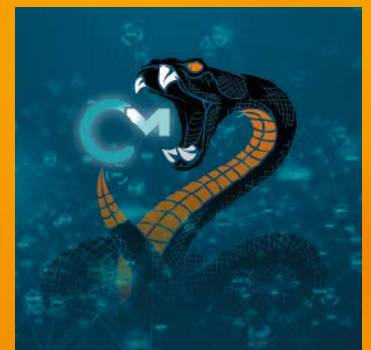
Category B
Fire and Explosion Protection, Industrial Safety

Assa Abloy: ePED
Panic Touch Bar

The design-oriented ePED panic touch bar combines panic bar and escape door control terminal in a single functional unit. A separate terminal on the wall is no longer necessary minimizing the wiring effort. The escape door system is controlled via the integrated terminal with touch display. It repwlaces four modules: escape route icon, emergency button, authorized operation and display of the time delay. If the ePED touch bar is combined with a suitable lock, the burglary protection can also be increased. The system solution can be delivered and set up completely by the door manufacturer. The ePED push bar can be easily integrated into the door technology via Assa Abloy's Hi-O bus technology.

D-Secour:
Cavius Invisible 2007
Smoke Alarm Device

The Cavius Invisible 2007 is not bigger than a golf ball while in terms of performance and reliability it is comparable with other smoke detectors. With its extremely well-designed look, it can be integrated discretely into any living environment. Cavius Invisible was honoured with the reddot design award. The particular advantage: Cavius offers the option of flush mounting for its detectors. That makes the already tiny detector almost invisible. The remaining device height is then less than 25 mm.

Bosch: Avenar Panel
Fire Alarm Systems

The new Bosch fire alarm systems Avenar panel were developed from the start with the stipulation of IoT connectivity and optimized usability. The already integrated 4-way IP switch reduces the need for additional hardware and supports convenient and cross-functional networking with voice alarm systems as well as integration into building management systems. Remote services via mobile apps for IOS and Android devices complement handling during operation, maintenance, and alarm management. The two fire alarm control panels Avenar panel 2000 and 8000 follow a modular concept and can each be equipped with up to 46 modules and up to 32 loops. Avenar panel offers a distributed architecture for campus solutions and can be equipped with multiple interfaces for an extended range of applications. The new eMatrix function gives clear feedback, shows the status of each evacuation zone as well as the fire protection equipment.
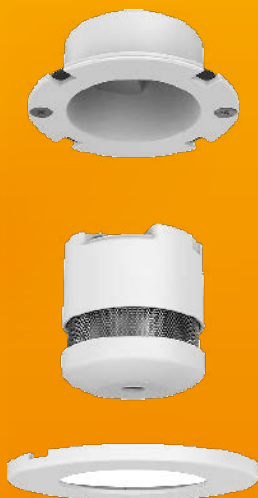
Ejendals: Tegera 8815 Infinity Cut F
Glove Allrounder

Tegera 8815 Infinity Cut F is a robust, hardwearing glove allrounder, which can be used in almost all industries. Ejendals combines very light material with the highest cut protection class for the universally applicable hand protection. The fabric mix of the cut-resistant CRF Omni Technology fiber, nylon and spandex guarantees high wearing comfort. Certified class II cut resistance / Cut F, the glove offers reliable protection against mechanical influences, which is particularly important for effective work in workshop, metal, paper industry, repair and sheet metal work. The glove can also be used in a work environment where resistance to contact heat up to 100 ° C is required.

Günzburger Steigtechnik:
Multi-purpose Ladder
Ladder with Steps

The 3-section multi-purpose ladder with steps has been developed in line with the latest version of TRBS 2121 Part 2, therefore meeting the stricter TRBS requirements. The result is a versatile all-rounder with added workplace safety. The ladder is equipped with 80-mm-deep steps from top to bottom (with double-wide step in the overlapping area), nivello ladder shoes, and stabiliser for extra-secure footing with 2-axis inclination technology and replaceable base plates as standard. The clip-step R13 step padding brings maximum slip prevention (slip class R13). Yellow signal markings highlight the area precisely where particular care must be taken when stepping onto the ladder. The 'roll-bar' can be ordered additionally for ergonomic means of transport and is sponsored by BG BAU.

Hailo: E-learning Programme
Digital Training

Hailo Professional is the expert when it comes to safe access and climbing. To guarantee the safety of ladders and access as well as fixed climbing systems that are essential to a company's operations, they must be inspected regularly by specially trained staff. Hailo provides this training with the aid of an e-learning program that covers all of the basic legal and technical aspects. The training course modules can be completed flexibly and guarantee long-term learning success through integrated interim assessments – digitally, anytime and anywhere. The program is constantly developed further. Successful participants become "competent persons" qualified to inspect work equipment.

HB Protective Wear:
Polo Shirt with UV Protection
Workwear

The long-sleeved polo shirt in fluorescent orange/navy with very high certified UV +50 protection is suitable for all outdoor works. This is more than the international EN standard 13758-2 requires and means that the fabric lets through only 2% of the UV radiation. Additionally certified acc. to IEC 61482-2 APC1 Arc Flash protection, EN ISO 11612 A1+A2/B1/C1/F1 heat & flame protection, EN 1149-5 antistatic und EN ISO 20471 high visibility class 2. Suitable for many application areas and workplaces. Embroidered standard pictograms make the protective functions directly visible. The low garment weight of approx. 300 g and elastic segmented reflective stripes improve the wearing comfort perceptively. Suitable for industrial laundry acc. to ISO 15797.

Honeywell Novar: Li-Ion Tamer
Battery Failure Warning

Li-Ion Tamer provide warning of outgassing events, well before smoke detection, and total thermal failure of the cell. This early warning from allows appropriate mitigation measures to be taken to prevent progression to catastrophic total thermal failure. The consequences of such a failure would be incalculable and could even lead to the total loss of entire facilities or even buildings. Traditional Li-Ion battery monitoring methods, such as smoke detection, would provide an indication of Li-Ion battery failure once the failure has progressed to smoke. Outgassing event monitoring, on the other hand, would indicate at the first sign of battery failure that the cell's pressure relief valve is bursting and releasing pressure from the cell. Outgassing event monitoring can provide up to thirty minutes earlier warning than smoke detection. These minutes gained through early detection can help prevent catastrophic battery failures.

IEP Technologies: IV8
Flameless Explosion Relief Vent

The IV8 Flameless Explosion vent, certified to DIN EN 16009, provides an explosion protection solution for process vessels which are located inside a building or areas where standard explosion venting cannot be safely employed. When an explosion occurs, the venting device opens and vents the explosion pressure and flame through a flame arrester, thereby cooling the hot gases and quenching the flame. The integrated vent opening detection sensor allows plant personnel to respond accordingly in the event of an explosion within the protected application. The IV8 utilizes a stainless-steel explosion relief vent and flame arresting mesh enclosed in a durable carbon steel coated frame.

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Ledlenser: H15R Work
Work Headlamp

The compact, rechargeable H15R Work is a powerful, focusable work headlamp and combines extreme luminosity, stepless focusing and maximum robustness. Thanks to Natural Light Technology, the light has a particularly natural color rendering and supplies neutral white light with 4000 Kelvin. Color spectra can thus be assessed particularly realistically. Thanks to the wheel switch and the Advanced Focus System, it can be easily and continuously dimmed and focused. Their protective elements on the front glass and battery as well as their strong dust and water resistance equip them for numerous demanding applications in industry and trade. With practical accessories, e.g. an additional silicone band and clips to attach the headlamp to helmets.

SoloProtect: SoloProtect ID
Personal Emergency Signal Device

SoloProtect ID is a personal emergency signal device designed as a name tag. It is comfortable to wear on the body and very discreet to operate. The one-button operation ensures that a user can trigger the alarm unnoticed in a threatening situation without having to break eye contact. The icon-driven user interface makes it easy to operate and gives the unit a modern and appealing look. The unit is always connected to an alarm receiving centre. Setup and user training are done online and are very cost-efficient. Innovation: Two-way audio function bundled in lightweight unit. Camouflage as a name tag enables discreet triggering of the alarm.

Category C
Video Security Systems (VSS)

Carrier Fire & Security: **Aritech TVS-PC1**
People Counting Camera

With the TruVision people counting camera, the flow of visitors to the premises can be monitored and controlled. The video solution records the number of people passing through the entrance and exit. The crowd density is displayed in real time. The current number of people with company logo, traffic light system, information signs and text messages can be displayed on monitors. The maximum number of people allowed is defined using a browser application or the TruVision Navigator management software and monitored in the building floor plan. If necessary, actions such as alarm or voice announcements are triggered. Combined with the integrated access control of the Advisor Advanced intrusion alarm center, doors can be controlled directly.

Axis: **Axis Object Analytics**
Video Analytics

Axis Object Analytics is an intelligent video analytics that detects and classifies humans and vehicles tailored to the surveillance needs. It's ideal for various applications including public buildings, warehouses, parking lots, industrial sites, and other unattended areas in non-critical applications. Preinstalled on compatible Axis network cameras, Axis Object Analytics offers smart surveillance at no extra cost. Thanks to intelligent algorithms, it suppresses most sources of costly false alarms such as swaying vegetation, small moving objects, and fast-moving shadows on the ground. The analytics application offers complete flexibility. Its straightforward interface lets you set up scenarios tailored to the needs with a few clicks. Axis Object Analytics easily integrates with the camera's event management system and other network solutions.

AG Neovo: **SX series**
Display Solution

Video security systems need a professional screen for real 24/7 use. AG Neovo's SX series fulfills video images without stretching or compression but with original colors and attention to details. In the proven many times 4:3 format, images remain meaningful and usable. In addition to the picture-in-picture function of many signal combinations, the new firmware of the SX-xxG models from AG Neovo includes a night mode (e.g. for marine and theater), an extra CCTV mode (video image sharpness), an OverDrive Mode (for clear images when quick moves) and the EcoSmartSensor for optimized power consumption. AG Neovo continues to make these classic 4:3/5:4 displays with the latest generation of panels available to its partners exclusively on the market. The patented NeoV protective and filter glass, the metal housing and anti-burn-in remain the safest benefits.
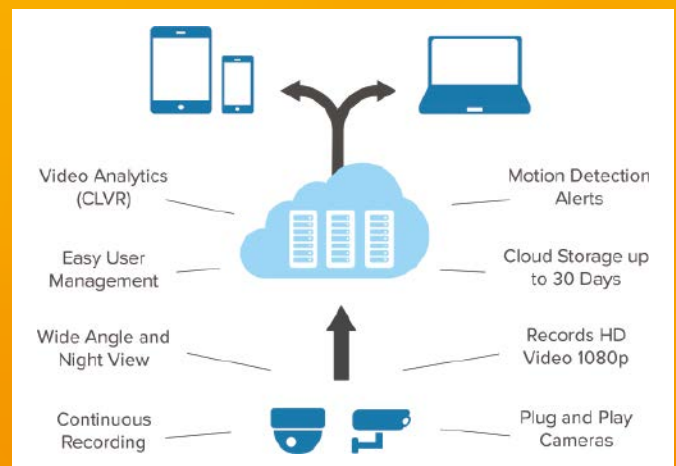
Eagle Eye Networks: **Eagle Eye Cloud VMS Platform**
Cloud Video Surveillance

Eagle Eye's 100% cloud managed solutions provide cloud and on-premise recording, bank level security and encryption, and broad analog and digital camera support – all accessed via the web or mobile applications. The iOS App allows to view both live and stored cloud video from the phone or iPad to check in on the business from across town or across the country. When receiving an email generated from a custom motion alert, it will include a deep link. The deep link will automatically take users to the video surveillance camera and a time stamp of the event. Users can then view the cloud video recording at that point in time.

Hanwha Techwin: **Wisenet P Series**
AI Cameras

Wisenet P Series ultra-high definition 4K AI cameras are equipped with license-free deep learning video analytics which simultaneously detects and classifies various object types, including people, vehicles, faces and license plates and is supported by Wisenet AI algorithms. Unique to Hanwha Techwin, the algorithms identify the attributes of objects or people, such as their age group, their gender or the colour of the clothing a person is wearing. The attributes are saved as metadata alongside the images captured by the new Wisenet P Series AI cameras, enabling users to quickly search for specific objects or incidents. The algorithms are even able to recognise if a person is wearing glasses or is holding a bag. The cameras have a BestShot feature which selects the best image captured of a person or object, and only send these together with the associated metadata to a storage server.

Hikvision: **The 4G stand-alone surveillance solution**
4G & Solar Monitoring Solution

The 4G stand-alone monitoring solution is perfect for areas that cannot be reached with power supplies and network, but require a robust solution. The integrated battery is charged by the included solar panel. The internal battery management and various protection mechanisms allow a runtime of up to 7 days during continuous operation. The internet connection is easily realized by the built-in 4G modem and supports all common mobile phone providers. The camera itself delivers up to 30 images in 1080p resolution. Further features like 120db WDR performance, integrated IR LEDs, remote activation, VCA analytics and a protection class of IP67 allow a self-sufficient surveillance.

Panasonic: **i-Pro WV-X5550LT**
AI Detection in Traffic Management

The i-Pro X5550LT camera with its AI engine and its SDK opens up a vast amount of opportunities for tailoring applications to specific vertical and business customers' needs. The camera runs i-Pro and customized applications directly on the edge, and enables capturing images of the driver and the license plate simultaneously, also through the curved windshield and with headlights during nighttime. This enables clear visibility of what is happening inside of the car, and valuable insights for police forces and traffic control.

GIT
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FINALISTS
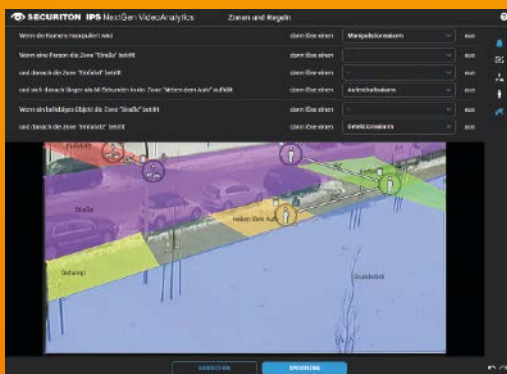
Securiton IPS: **NextGen VideoAnalytics**
Video Analytics

The new IPS video analytics combines various analytics applications in one module and has a novel, intuitive configuration. Whether an intruder is to be detected in an area to be monitored or attempts to manipulate the camera are to be recognized – with the help of symbols for objects or persons, which are simply dragged and dropped into the zone to be monitored, a corresponding rule is automatically created. The rule describes the respective application and is clearly displayed as text above the video image. The associated alarm type to be triggered can also be selected there. It is also possible to activate several rules. In this way, operators can keep an eye on even complex scenarios.

Category D
Access Control, Intruder Alarm, Perimeter Security

GIT SECURITY AWARD 2022 FINALISTS

Assa Abloy: Incedo Business
Platform-based Access Management Solution

To offer flexibility to customers, the scalable Incedo solution comes with three system management options — Lite, Plus and Cloud — offering the ability to scale depending upon security needs. Switching between Lite, Plus and Cloud management is easy whenever needed. Incedo offers a huge range of hardware from wired readers through to wireless locks for different access applications and a credential set covering smart keys to mobile keys and cards. It doesn't stop there, Assa Abloy is continuing to invest in growing their portfolio of products as well as opening up 3rd party integrations to ensure the customer can control all their security needs on one platform. Users pick the hardware and software configuration they need and can change it anytime.

Efaflex: EFA-SST Secure
High-speed Security Door

After three years of development, Efaflex has launched the high-speed spiral door EFA-SST Secure with Resistance Class 4 (WK4). To meet the increased safety requirements, the company had to completely design new components, such as a new door leaf section, a hinge chain and rollers. The security door withstands a maximum opening force of 10,000 Newtons and is designed for an attack from the outside, in which experienced criminals proceed with extreme brutality. It reaches maximum speeds of 1.0m/s when opening and 0.6m/s when closing, is designed for approx. 250,000 load changes per year and is manufactured to the millimeter according to customer specifications. It is very quiet, reliable and almost wear-free.

Axis: D2110-VE
Security Radar

Axis D2110-VE Security Radar is a smart, network-based device that uses advanced radar technology to offer you extensive 180° area protection 24/7 and a low false alarm rate. Featuring built-in analytics, it's ideal in a variety of outdoor installations such as industrial areas or after-hours monitoring of parking lots and loading docks. Built-in analytics developed using machine learning and deep learning, it can accurately detect, classify, and track people and vehicles with a low false alarm rate.

GFOS: gfos.Security
Software for Access Control and Visitor Management

The software for access control and visitor management helps to control access to all company areas centrally via authorization concepts. Access can be restricted in terms of time, space or personnel. A novelty is the integration of so-called preventive questionnaires. They are used to monitor various symptoms of illness: Access is therefore only granted to people who do not show any symptoms, e.g., with regard to COVID-19. This supports companies in covering infection protection on site as best as possible and in integrating further security measures in operation. The questionnaires can be linked to a time frame so that a new completion is necessary after the period has expivred.

HID Global: HID Location Services
Location Services for Workplace Safety

Amid the Corona pandemic, companies are trying to maintain business operations while ensuring the health and safety of their employees. HID Location Services for Workplace Safety relies on Smart Social Distancing, using key fobs that communicate via Bluetooth Low-Energy as well as Wi-Fi and utilize cloud-based technologies. The devices provide an audible warning when employees fall below the minimum distance of two meters from their colleagues. In addition, the app enables automatic contact tracing. The system requires minimal infrastructure to install and operate, and can be easily integrated into existing building management systems using REST APIs.

Hikvision: MinMoe Terminal
Face Recognition Terminal

Hikvision's MinMoe terminals require only a fraction of a second to recognize the face, match it with the stored database and allow contactless access control. Alternatively, Mifare cards, fingerprint or a pin code can be used as further authentication options. Furthermore, the terminals detect whether the persons captured by the camera are wearing a face mask. If no face mask is detected, a voice prompt is given and access can be denied. MinMoe temperature measurement models equipped with advanced thermographic cameras also quickly and accurately detect elevated skin surface temperature. The terminals can be set to deny access and notify staff to confirm the person's actual body temperature with medical instruments.

Innosent: Radar Sensor IMD-2000
Motion Detector with Ranging

The sensor IMD-2000 is a 24 GHz radar solution for motion detection. It even detects slow motion and has a range of typically up to 15 meters for a person. The maximum range is 50 meters and can be individually adjusted. The sensor determines the exact speed, the direction of movement (approaching or departing) and the distance from moving objects or people. The IMD-2000 outputs the data as a target list and also provides the estimated time of arrival (ETA). The objects can be filtered via the RCS and distance. The IMD-2000 has compact dimensions and is suitable for outdoor use. Thanks to its features, it is pre-destined for integration into motion-oriented alarm systems.

iLoq: iLoq S50
Mobile Access Management System

iLoq S50 is the world's first NFC self-powered lock cylinder. It generates the power for confirming access rights and opening from an NFC field created by a 'key' which can be either an Android or Apple smartphone running the iLoq S50 app. It is designed specifically for the utilities industry where there is a need to manage numerous sites and a vast number of locks simultaneously, and where a huge number of keys are in constant circulation. Access rights to all locks are shared and managed with a cloud-based, highly intelligent, user-friendly software platform. iLoq S50 helps keep track of who has access to what with features like time-restricted access, instant granting and revoking of access rights and real-time audit trail reports.

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Ksenia Security: matrix
Universal Transmitter

Matrix is a bidirectional universal radio interface connecting low-power third-party motion detectors with the IoT control panel lares 4.0. It is designed to convert any motion detector into wireless systems thanks to the two dedicated inputs detecting the sensor's sabotages and/or alarms. matrix can be equipped with 3 batteries to power the connected device, providing up to 4500mAh autonomy. Its interface is fully compatible with BXS, VXS, WXI, WXS and QXI Optex motion detectors, and it communicates with them wirelessly through radio signals.

Perinet: MultiSense
Perimeter Intrusion Detection, Monitoring and Control

MultiSense is a holistic solution for perimeter intrusion detection, monitoring and control. The basis of the MultiSense system is an encrypted network (PeriNet) which was specifically developed for the application in outdoor areas. In terms of intrusion detection, different types communicate via the PeriNet network with the centralised server where the decision making takes place. In addition, the PeriNet network interconnects all accesses such as gates, barriers or turnstiles. The browser-based software visualizes the perimeter, informs about intrusions or escapes and offers the possibility to control all accesses intuitively via a digital control panel.
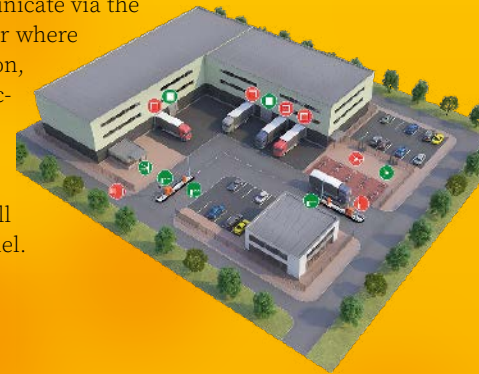
Optex:
Redscan Pro RLS-50100V
LiDAR Sensor

Part of the Onvif profile S compliant Redscan Pro Series, RLS-50100V is the long-range LiDAR sensor providing very accurate detection of intruders and moving objects, within a range of 50m x 100m. It can be mounted horizontally for virtual planes, vertically or tilted for virtual walls and provides high resolution scanning in the near and far to maintain the same level of detection without any gaps. It features a 2MP, panoramic camera module which provides great configuration assistance as well as the ability of recording video images with alarm logs for alarm visual verification and analysis. It is a PoE+ compliant device.

Perimeter Protection Germany: CityProtector
Removable Safety Barrier

The CityProtector is a new kind of bollard with improved functionality and design. The CityProtector M40 and M50 have proven their impact resistance in real crash tests. The M40 survived the vehicle impact unscathed with a penetration of zero. The new bollard has a multi-layered structure and can be customized in colour, shape and functionality. Special production methods allow adaptation separately according to customer needs. The four elements weigh about 45 kilogram each and can be assembled and disassembled manually by one person. Rapid separation of blocking elements and anchor shoe offers considerable advantages for transport and storage. The CityProtector requires a shallow foundation depth of 220mm only.
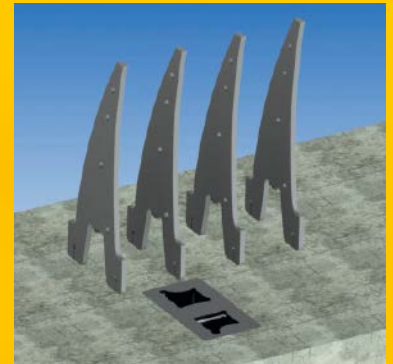
Salto: Salto Neo
Electronic Cylinder

The Salto Neo is a battery-powered electronic cylinder that brings all the benefits of a wire-free access control solution. These include low installation costs and the ability to add intelligence to virtually any door. Thanks to advanced technologies, the Salto Neo enables keyless access in a variety of ways: it works seamlessly with the Salto Virtual Network (SVN) with patented read-write functionality, the Salto BLUEnet Bluetooth-based wireless technology for wireless real-time access control, and the JustIN Mobile technology for Mobile Access. It can also serve as a wireless updater in the virtual network (SVN-Flex).

STid: Spectre nano
UHF & Bluetooth Middle Range Compact Reader

Spectre nano offers the power to secure and streamline vehicle gates. The system offers highly secure car park access and no more queues thanks to the Spectre nano identification reader. It is discreet, elegant, flexible, cost-effective, perfectly secure and fully customizable. The reader ensures automatic, simultaneous and remote identification of the vehicle and his drive – even in harsh environments. This multi-technology UHF & Bluetooth reader, the most compact on the market, rewrites the rules of security, making it more instinctive and convenient.

Sorhea: Solaris
Autonomous Active Infrared Barrier

The Solaris is an active infrared barrier consisting of a network of columns that create an immaterial and invisible wall of detection around the site to be protected. The columns communicate an alarm when an intruder cuts the infrared beams as well as filtering any unwanted alarms. Traditionally, IR barriers need cables for power and to send alarm information. The Solaris is an 100% autonomous infrared barrier that is powered by a solar panel and built-in battery. The alarms are communicated via an encrypted mesh radio network to the Maxibus hub that in turn relays the alarm information to third party systems. The Solaris is designed to equip existing sites where there is a real practical or economic interest in removing the civil works.

Category E
Safety and Security Management, Services and Solutions

Bosch Sicherheitssysteme/EVI Audio: Dynacord Promatrix 9000
Public Address and Voice Alarm System

Promatrix 9000 from Dynacord is a new efficient and fail-safe public address and voice alarm system which is currently only available on the German market (as of April 2021). The system provides planners, installers and building owners with excellent audio quality for announcements or music to all areas of the building with low latency. It can be operated via an intuitive user interface on the call station or via personalized software installed on a tablet or PC. The intuitive user interface of the call station ensures optimal operation through touch screen and selection keys. Clear user guidance with feedback on progress and status ensures convenience and user-friendliness. The technology concept is all IP-based, enabling fast installation times and lower implementation costs. All system components are located within an IP network – this ensures maximum flexibility and scalability, from small centralized to large decentralized systems.

Carrier Fire & Security: Aritech ATS8550 Advisor Configurator
Remote Service Solution

Beschreibung: Advisor Configurator (ATS8550) is a service software with which all installed Advisor Advanced alarm panels of an installer can be configured, diagnosed and interacted with them remotely. This means that the status of the control panel, including the status of the zones, the areas and the communication channels, is immediately available without a technician having to be on site. A detailed report can be used to list the system status with the event log, updates carried out and the person carrying it out. The software is available in versions for 5, 250, 1500 and 10,000 control panels. Innovation: The service software reduces the number of on-site visits to the customer, saves journeys for maintenance and reduces costs. At the same time, it improves the response time to queries regarding malfunctions or extensions of the alarm system by the end user.

de Jong Sicherheit & IT: IRM-Guard
Intelligent Reception Management

Current security and hygiene-protocols require special measures for access to buildings and rooms. This can lead to bottle necks especially when there are large numbers of people. IRM-Guard is an intelligent solution, enabling the five essential tasks for access control to be carried out quickly and efficiently: Temperature measurement, Mask recognition, Hand disinfection, Visitor registration, Access Control. IRM-Guard can control doors, gates and/or turnstiles. Standalone or integrate it into security concepts. Optionally, people can be automatically checked for access using face recognition. As a fully integrated component of an existing security system, it plays an important role in every application and is a real multitalent. This network-compatible hygiene column scores with QR code based visitor registration, digital level measurement and integrated mouth-nose mask recognition as well as face recognition and body temperature measurement.

Gallagher: Proximity and Contact Tracing Report
Contact Tracing in Organizations

Gallagher's Proximity and Contact Tracing Report supports organizations with fast and efficient contact tracing. Developed with the safety of people in mind, the report helps mitigate the risk of COVID-19 exposure, offering organizations the critical insight required to act swiftly and keep people safe. The Proximity and Contact Tracing Report utilizes access control technology and draws on Command Centre, Gallagher's world-class site management software. It enables organizations to identify areas where a specified cardholder has been on site, as well as all other cardholders who shared these areas and therefore may have an elevated risk of infection via surface contact or being within close physical proximity of an infected person. Beyond simply knowing that certain cardholders have shared physical space, the report provides more information that allows for greater risk assessment.

Hanwha Techwin Europe: Wisenet Retail Insight
Business Intelligence Software Solution

The Wisenet Retail Insight business intelligence software solution is designed to help retailers gain an understanding of customer behaviour by aggregating video analytics data captured by supporting Wisenet cameras and presenting insightful information in a convenient and effective way. The solution utilises people counting, heat mapping and queue management applications to display statistical analytics on a centralised dashboard, along with other practical information such as weather reports. In addition to generating reports in a variety of formats, users are able to view real-time updates on a wide range of activity, including the number of store visitors on a particular time of day or accumulatively over a specified time. It is fully compatible with Wisenet P AI cameras, which in addition to Deep Learning AI analytics, utilise Wisenet AI algorithms that identify the attributes of objects or people, such as their age group, their gender or the colour of the clothing a person is wearing.

Hikvision: Hik-ProConnect
Online Service for Installers

Hikvision offers a new online service, Hik-ProConnect, a converged cloud-based security solution that helps security providers manage services for customers. Using a simple and reliable platform, installers can remotely monitor and administer the system status of customer sites. An integrated authorization concept allows owners to grant or deny access at any time. All devices connected to Hik-ProConnect transmit their status at regular intervals, thus enabling proactive health monitoring. If the status changes, an immediate notification with a detailed description is sent and the installer can connect to the system remotely to analyze and correct the error. Furthermore, different devices can be linked and flexible rules can be created.

Genetec: Streamvault
Turnkey Security Infrastructure Solution

Streamvault is a turnkey security infrastructure solution and includes all-in-one and rack-mountable appliances, storage solutions and workstations designed for unified video surveillance and access control systems. The Streamvault portfolio ranges from simple workstations to scalable rackmount solutions and custom video analytics appliances ideal for a variety of installations and decentralized locations. Since the unified Security Center software is pre-installed, the devices are ready for immediate use. The integrated configuration wizard and automatic update function make system maintenance as efficient as deployment. Streamvault provides an easy way to plan and set up a unified security system. Pre-validated and pre-installed with Genetec Security Center, Streamvault enables easy integration of video surveillance, access control, automatic license plate recognition, communication, and analytics.

Honeywell Novar:
Connected Life Safety Services
Platform for Fire Protection Systems

With Honeywell CLSS, detailed reports are available anytime, anywhere. System testing is taken to the next level to ensure all equipment is tested. CLSS enables straightforward maintenance, quickly providing technicians with the information to locate and fix problems. Downtime is reduced before it leads to unforeseen operating costs. All assets can

be viewed holistically at all times to ensure sites are operating effectively. Real-time connectivity across sites provides visibility into scheduled system tests, inspection reports and equipment inventory thereby allowing systems to be maintained quickly and efficiently. Honeywell Connected Life Safety Services puts connectivity at the heart of fire safety, providing visibility to make timely and accurate decisions.

Kemas: Handover Systems
UV-C Irradiation Against Sars-Cov-2 Viruses

Since a classic application of disinfectant liquids is not possible in self-service transfer systems, the properties of electromagnetic radiation in the UV-C range are used to deactivate Sars-Cov-2 viruses on surfaces. Only UV-C emitting LEDs are used as UV-C radiation sources in key transfer systems. These are integrated in the compartments known as Kemas-Keybox and activated by the transfer system depending on the process. This radiation source, consisting of an array of several LEDs, is located behind a UV-permeable quartz glass panel and enables active irradiation of the closed compartment. In the course of containing global virus pandemics, Kemas is already making an contribution with systems for self-service and quasi contact-free transfer of objects.

Nedap: Technology Partner Programme
Partner Programme for Access Solutions

The Nedap Technology Partner Programme ensures Aeos users around the world are free to adapt their access control system to their specific and changing needs. Nedap focuses on developing Aeos while the technology partners focus on their specialisms. As Aeos is built on open standards, it integrates with a wide variety of technologies, such as biometric verification, elevators and wireless locks. They team with more than one partner per technology, so there's no vendor lock-in. This approach keeps end users' needs at the centre and gives them the flexibility to ensure their security systems are scalable, futureproof and always up to date. The Nedap Technology Partner Programme offers a wide portfolio of integrations for Aeos users to choose from. Each integration is created to meet a well-defined customer need and is developed by specialists to an exceptionally high level of quality.

Qognify: Situator
Enterprise Incident Management System

Situator is an enterprise incident management solution. The software platform is used in highly regulated environments (e.g. rail, mass transit, air and seaports, critical infrastructure, banks and smart cities) to reduce/mitigate the impact of security and safety related daily incidents and major crises. Situator seamlessly integrates and correlates data feed systems and sensors including CCTV, access control, smoke, fire and perimeter alarms, and intrusion detection. It not only provides real-time situational awareness to all relevant stakeholders, but also coordinates the appropriate level of response, from start to finish, based upon automated workflows that adhere to best practice and regulatory compliance requirements.

Trackunit: Kin
Anti-Theft Bluetooth Tag

Hardly any workplace is more open than a construction site. Often located directly at the site, valuable equipment and tools are often stored outside. This makes theft very easy: one third of the annual tool purchases by construction companies can be traced back to theft. To prevent this, Trackunit has launched "Kin", a Bluetooth tag. The small black box can be attached to non-powered assets and enables seamless location tracking via Bluetooth. Not only can theft be prevented, but storing equipment becomes easier because important equipment can be located and found directly. In addition, equipment utilization can be evaluated with reliable data. Kin allows location tracking of any asset, regardless of manufacturer. The compact and robust Bluetooth tag can be easily attached to assets and is set up in less than a minute via a dedicated app.

Viguard: viGuard
Digital Gatekeeper

The system viGuard regulates access to premises. The digital gatekeeper registers vehicles and visitors, guides them through registration 24/7 in over 100 languages with individual workflows. As a weatherproof stainless-steel terminal in individual shape and colour, viGuard integrates touch monitor optionally with printer, QR scanner, RFID reader and other accessories. Standardised soft- and hardware modules adapt individually. Middleware architecture connects via interfaces to systems ranging from enterprise resource planning (ERP), transport / warehouse management (TMS/WMS) to access control or video surveillance. Customers benefit from contactless communication at calculable costs with complete documentation and reliable security instruction. viGuard accelerates processes at the registration and prevents delays in downstream processes.

Category F
Special Category Smart Home & Residential

ABB Stotz-Kontakt: Busch-Welcome IP
Project Door Communication System

At 180 meters, the Grand Tower in Frankfurt is the tallest high-rise residential building in Germany. Smart and secure access to the elegant premium-class building is controlled by the Busch Welcome IP door communication system from Busch-Jaeger. The innovative system with HD video communication can be used for exterior, interior and remote monitoring of residential and functional buildings. In the Grand Tower, it grants residents access to the building via a smart card in the parking garage, at the barrier and at building doors. Especially the possibility of bidirectional communication between residents and concierge is a very useful function. The additionally available smartphone app Busch-Welcome gives the system even more possibilities. Busch-Welcome IP in the Grand Tower is according to the supplier the most extensive installation to date in Germany in a residential building.

Bird Home Automation: DoorBird D1101V
IP Video Door Station

The DoorBird D1101V is the smallest IP video door station from DoorBird. The device is particularly suitable for single-family houses as it combines compact size with DoorBird's IP technology. It is equipped with a 1080p camera, one call button and is available as a surface-mounted or flush-mounted version. Residents can hear and speak to their visitors or postmen via the free DoorBird app, and even open the front door using their smartphones or tablets. The D1101V can be connected to the Internet via a network cable or Wi-Fi. Once connected, there is access to all functions of the door intercom from home and on the road. The DoorBird D2101KV notifies the tenant on their smartphone or tablet when someone rings the doorbell or moves in front of the door.

Dormakaba: Resivo
Access management in the Cloud

The new Resivo access system for Real estate management from Dormakaba considerably simplifies access management of properties, facilitates handover of the apartment and solves the question who in an apartment building has access to where, simple but differentiated. The cloud solution for property management enables all rights to be easily and flexibly organized using the app. Property managers are able to conveniently manage and assign access rights to tenants for communal doors, such as entrance doors, doors to the underground car park, to communal areas etc. from the office. Tenants manage the access rights for their apartment themselves.

The smartphone is transformed into the secure key, but users can also use a RFID medium for entry. New building projects are increasingly being planned with digital access. The new Resivo access system from dormakaba was developed for smart residential buildings of the future.

Ksenia Security: Energia
Consumption Management System

Energia is a BUS peripheral designed to manage the power of single-phase electrical systems by measuring the electric consumption. Each Energia module has two distinct lines where voltage and current are supervised, both lines support up to 6kW loads. Two energy consumption thresholds can be programmed: when the first is exceeding, alerts are generated – and sent also via push notifications. If the second threshold is exceeding, Energia generates the alert and starts to disconnect the loads according to the chosen sequence previously set. Each module has 4 relay outputs capable to drive external relays for disconnecting loads or used as control panel generic outputs. Energia fully complies with current policies and norms on energy efficiency, thanks to the electrical loads management and the energy consumption balance. The module is designed to collect the electrical system data and provides a visual representation through graphs showing consumption time trends.

Lupus: **XT1 Plus**
Smarthome Security System

The Lupus XT1 Plus combines an alarm system, hazard detection, smarthome and video surveillance: with sensors to detect smoke, heat, temperature, carbon monoxide and CO_2, water, burglary and medical emergencies, consumers are protected against all kind of threats. The professional smarthome alarm system can be controlled via app, intuitive web interface, remote control or voice command. With the XT1 Plus, up to 80 alarm- and smarthome sensors can be used, e.g. for light control, smart heating or for closing the shutters. The connection of a terminal device is always secured at the highest level with end-to-end 256bit TLS encryption. The installation is simple and does not require any architectural changes to the building. One's own data can be managed in a self-determined manner without outsiders being able to have access to it.

Verisure: **KeyFob**
Alarm System

The security experts at Verisure protect families and SMEs with a combination of the latest smart security technology and human intervention. In the event of an alarm, real people in the VdS-certified emergency call center in Ratingen/Germany check what is going on around the clock and provide the appropriate help immediately in an emergency. In case of burglary, for example, the ZeroVision privacy screen is triggered, the burglar is scared away and the police are called. With KeyFob, there is now a new emergency button to wear around your neck, so that elderly people or people with a handicap can also contact the VdS-certified emergency call center at any time and ask for help. The Verisure NSL checks what is going on and acts. The Verisure alarm system can be (de)activated with KeyFob at a range of 15m. It offers physically impaired people the possibility of completely hand-free operation.

FIRE PROTECTION

An Artificial Intelligence Revolution

Fire Protection at Bosch Building Technologies

Michael Hirsch has been leading the Fire business unit within the Bosch Building Technologies division as Vice President since February 1, 2021. In this interview, Matthias Erler from GIT SECURITY discusses the new responsibilities in Hirsch's role, AIoT technology as well as current and future innovations in fire protection from Bosch Building Technologies.

GIT SECURITY: Mr. Hirsch, let us start with a brief trip down memory lane: before joining Bosch in 2012, you worked as a management consultant. What exactly were your responsibilities and what experiences did you gain that proved beneficial at Bosch?

Michael Hirsch: I would say it provided me with a strategic and analytical approach as well as international experience across different industries that I can bring to my current role at Bosch and for the benefit of our customers. It enables me to look at things from different angles.

You were most recently responsible for key account management at Bosch …

Michael Hirsch: That is correct. I was responsible for large and strategic accounts in our system integrator business. I carried responsibility in a holistic sense: from planning and sales to technology and service. Fire alarm technology was of course also an essential part of this role, and I was able to gain a thorough understanding of our clients' needs. My new role expands the focus to include responsibility for product and solution development in this division.

Could you describe the positioning of fire alarm technology in the Bosch Building Technologies security and safety portfolio? What is its role alongside video security, intrusion detection systems, access control and voice evacuation systems?

Michael Hirsch: Fire detection technology is a very important part of the overall portfolio of Bosch Building Technologies. Our goal is to protect human lives and company assets through the use of our technology. This is also a core value of the Bosch Group with its guiding principle "Invented for life". But we also benefit from significant interfaces and touchpoints within our division. On the one hand, we work very closely with our own system integrator business; on the other hand, we can internally draw on very broad and in-depth domain know-how.

Avenar all-in-one 4000
in full configuration

Avenar all-in-one 4000 from Bosch is a combined optical-acoustic signaling device according to EN54-23 and EN54-3 respectively. It allows up to 125 devices on one ring as well as a simple and fast installation

How do you position your unit with regards to your international competitors as far as fire detection and fire alarm solutions are concerned? You just mentioned domain knowledge. Could you explain how the Fire business unit translates this know-how into customer benefits?

Michael Hirsch: The critical factor is that as well as very innovative customized solutions, we also offer cross-domain solutions. In addition to fire alarm systems, we also have the domains of communication systems, i.e. voice alarm and evacuation, or intrusion detection technology, access control, and video security systems. This allows for a completely different depth of customer solutions compared to solely offering expertise in one area. In the event of a fire, we can quickly and safely direct the affected persons out of the building. In addition, we set benchmarks in our industry, for example with AIoT-based video fire detection.

You just dropped the keyword 'AIoT'. At Bosch, you use this term to express the merging of two megatrends, namely Artificial Intelligence (AI) and the Internet of Things (IoT). Both are currently among the major growth markets worldwide and, according to Bosch CEO Volkmar Denner, they form a central part of your company's corporate strategy. Could you please go into a little more detail on what this is all about from the Bosch perspective?

Michael Hirsch: Artificial intelligence, or AI for short, is a key technology for Bosch. Volkmar Denner has made a strong point that from 2025, all Bosch products will have AI, or be developed or manufactured with it. To achieve this goal, Bosch has set up its own competence center, the Bosch Center for Artificial Intelligence, or BCAI for short. The relevance of AIoT is also steadily increasing in fire protection, especially in fire detection. We have seen a clear trend in that segment toward video-based fire detection for years as a supplement to standard fire detection systems. Thanks to the use of AI, we are able to detect more quickly whether a fire is developing or not. This technology works very reliably and avoids false alarms. The algorithms are constantly being further improved for ever greater accuracy and speed. A second field revolves around remote services. Today we can recognize the contamination level of a detector more quickly and we can react accordingly. We will increasingly make use of AI in this field as well, and get better insights for planning maintenance measures and ensuring system stability.

Let us take a closer look at video-based fire detection – the keyword being Aviotec?

Michael Hirsch: This is a very important use case for AIoT. The foundation was initially created here with knowledge-based models: flames and smoke can be characterized, so the corresponding descriptive features formed patterns and led to an initial model. Machine learning was added in the second step. Self-learning systems improve performance, especially the important robustness against false alarm scenarios. Deep learning holds further potential, but since AI also has limits, it is important for us to understand what results it arrives at. After all, human lives and values are at stake. That is why AI currently represents a complementary technology to normative fire alarm systems.

For which solutions do you expect to see particularly strong growth?

Michael Hirsch: Basically, we market our systems through our own installer business, but also through system integrators and other

Aviotec IP starlight 8000

In certain environments, additional protection besides smoke detectors makes sense. For example, if a fire is detected in a room with high ceilings before the smoke reaches the smoke detector mounted high up, it is possible to react more quickly and thus gain valuable time. It is equally important to correctly distinguish fires and smoke from other faults that can trigger false alarms and have financial consequences.

Aviotec IP starlight 8000 makes it possible, for example, in applications in industry, transport and warehousing or even energy supply, to keep the detection time particularly short and minimise false alarms. Thanks to faster detection and increased situational awareness, rescue measures are accelerated, lives are protected and damage is reduced.

The Bosch video-based fire detection system uses a special physical fire detection model that reliably distinguishes between malfunctions and real fires. Thanks to Bosch's camera technology and intelligent software algorithms, the video footage is analysed directly in the camera. An additional processing unit is not required, which reduces installation effort and costs.

Aviotec – explained in 2 minutes:

https://bit.ly/3rYiEtS

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partners. We see very good growth opportunities here, among other things through the new Avenar product generation, as well as remote services and other innovations. The field of video-based fire detection will certainly be very important, and customers will also be able to very clearly see the benefits that go beyond normative fire detection technology. This has already been recognized by the jury of the GIT SECURITY AWARD 2020, where we won first place in the fire protection category with Aviotec. Fast and reliable detection directly at the source of the fire is simply very important for users worldwide. Take one practical example among many, that of a paper processing plant: the ceilings are tall, and it takes a long time for smoke to rise up to reach conventional fire detectors – long enough to turn a small glowing ember into a fully-fledged fire. With our video-based fire detection on the other hand, you get instant alerts when a fire source is detected. That is a significant added value. The same applies to all types of warehouses, especially those that are highly automated and with few employees. Data centers or even tunnels are further examples.

Remote services via an Internet connection, which you already mentioned, are also important here: fire alarm systems can be maintained completely remotely, right?

Michael Hirsch: That is correct. Our remote services bring significant benefits for our customers. Decentralized access allows us to respond quickly and efficiently. This includes remote access to our systems for programming and maintenance, live monitoring of the accruing sensor data, and forwarding of alarms and error messages to smart devices.

You recently launched a special app for that as well …

Michael Hirsch: Up until now we have focused mainly on enhancing the efficiency and speed of our system integrators. With the new app we are significantly expanding remote services by also bringing them to the end customer. The operator of a building can get access in real time, which represents a big added value for the customer.

Mr. Hirsch, another key topic on a meta-level within the industry of security and building technologies is the connectivity of different components within a security system. For fire protection technology, for example, this includes integration with alarms, emergency lighting, and smoke extraction. What do you have in store at Bosch in that respect?

Michael Hirsch: In this case, we benefit greatly from the fact that Bosch Building Technologies combines various domains under one roof. Our fire alarm systems, in addition to being linked via simple interfaces, can be connected to our powerful voice alarm systems via an IP connection. The system meets the highest standards in terms of quality, security, and functionality, and also offers outstanding flexibility as well as scalability.

Let us talk about some more of the latest innovations in Bosch's fire protection portfolio. For example the Avenar series of signaling devices?

Michael Hirsch: At the beginning of the year, we launched the Avenar all-in-one 4000, a combined optical/acoustic signaling device that complies with EN54-23 and EN54-3. It combines optical and sound alarms, allows up to 125 devices on one ring, and is quick and easy to install. Its modularity and flexibility provide a substantial advantage. At public buildings and hotels in particular, this product will be of great benefit.

Are there any other exciting innovations in the pipeline at Bosch?

Michael Hirsch: One milestone is the expansion of video-based fire detection applications to areas outside of buildings. This is an absolute novelty in the industry. We had received a lot of customer feedback indicating an existing need to monitor outdoor storage areas, for example. Due to the varying weather conditions in outdoor areas, this is not a simple task. You have to be able to reliably deal with a wide range of environmental conditions such as fog, snow and wind, which of course do not exist in closed buildings. As I said earlier, the use of AI is helping us to develop the solution further. That is just one example of the many exciting innovations we have in store for the near future.

Vibrating Pillow Pad Alarm

C-TEC has launched an innovative new vibrating pillow pad alarm. Designed to warn the hearing impaired of a potential fire alarm or evacuation alert condition, the BF320 vibrates and pulses on and off when triggered as per the requirements of BS 5446-3. With a wide 10-30V DC voltage operating range, the stylishly compact device is ideal for residential, leisure and commercial projects and can be used in conjunction with the BF320JP, a connection plate which can connect it to the sounder circuit of a compatible conventional fire alarm system and also to C-TEC's new evacuation alert system. Brian Foster, C-TEC's UK sales manager said: "These are just two of the exciting new products we've recently designed for use with all our commercial fire alarm systems, Evac-Alert, our new evacuation alert system and Hush Activ, our BS 5839-6 Grade C domestic fire systems for flats, apartments and other residential buildings."   **www.c-tec.com**

EN 54-13 2017/2019 Approval

Fire detection equipment manufacturer Global Fire Equipment (GFE) has been awarded EN 54-13:2017+A1:2019 system compatibility approval. An international third-party accredited laboratory awarded the approval for the company's entry-level and high-end addressable fire detection and alarm systems. This is one of 23 standards for fire detection and alarm (product) systems (FDASs) in the EN54 series of standards. The European standards define the requirements, test methods and performance criteria required by various individual components making up FDAS. EN 54-13 is a system performance standard rather than a product standard and confirms the compatibility and connectivity of all the individual components of a FDAS. Authorities, specifiers, installers and end users are increasingly requesting EN 54-13 compliance, also in the approval requirements for commercial installations in several European countries."   **www.globalfire-equipment.com**

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EIZO IP decoding solutions are designed for the computerless connection of security and surveillance cameras. They are built for 24/7 use and feature the highest reliability and durability.

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FIRE PROTECTION

Running Through Fire

Fire-Rated Coaxial Cables for Public Buildings, Railway and Shipbuilding Locations with Increased Fire Protection Requirements

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SSB-Electronic provides special fire-certified cables that are approved for use in buildings with high protection requirements

There are around 300 fire deaths in Germany every year. According to the Central Association of the Electrical Engineering and Electronics Industry Germany, the cause of death in 95 percent of cases in buildings is not direct exposure to flames, but rather smoke inhalation. Fire safety in buildings is becoming more and more important, not least due to numerous legal requirements in fire protection. SSB-Electronic has developed special coaxial cables that are approved and certified for installations in buildings with high fire protection requirements. These coaxial cables reduce the spread of flames and the release of heat in buildings, considerably limiting the emission of smoke and acid gases as well as burning particles during the fire.

Since 1st of July 2017, all cables that are permanently installed in European buildings are subject to the European Construction Products Regulation (CPR). This regulation defines uniform rules for the use of construction products inside buildings and is implemented in all EU member states through the EN 50575 standard. Cables as construction products are assigned to specific fire performance classes based on their reaction to fire. The classification is based on flame spread and heat release; additional criteria include smoke emission, acidity of gases and flaming droplets. Each fire class has special quality control requirements following the corresponding system of Assessment and Verification of Constancy of Performance (AVCP).

The CPR creates a uniform system for the classification, evaluation and certification of construction products for all EU countries. The purpose of the CPR is to increase fire safety in buildings. The use of certified cables extends the time available for evacuation and rescue in case of fire. SSB-Electronic offers flexible and low-loss coaxial cables in different CPR classes, which can be installed in various types of building or areas according to the specific fire protection requirements.

Cables with CPR rating Cca

The coaxial cables of the Ecoflex Plus Heatex and Aircell Heatex product series meet the strict criteria of the Euroclass "Cca" and are suitable for use in public buildings with high fire safety requirements. These products are flame retardant and have only a low flame propagation. Due to this low smoke Heatex cable jacket, the escape routes remain visible in case of fire. These coaxial cables are also free of halogen and contain

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no reactive elements such as fluorine, chlorine and bromine. They have low gas acidity and therefore minimize the subsequent damage caused by fire. The Euroclass "Cca" ensures that the cables meet all important classification criteria regarding the spread of flames, heat release, emission of smoke and acid gases as well as burning droplets and comply with all relevant standards.

In detail, the coaxial cables of the new series meet the standards and guidelines for Jacket Material according to DIN EN 50290-2-27 (HD 624.7), Flame Retardant according to IEC 60332-1-2, Corrosivity of Fumes according to IEC 60754-2, Smoke Density according to IEC 61034, RoHS Compliant (Directive 2011/65/EC & 2015/863/EU RoHS 3), Low Smoke Zero Halogen (LSZH) and are UV-resistant.

These cables are verified by special cable test procedures related to their fire protection class Cca in order to meet the strict requirements of the highest system of conformity assessment (AVCP system 1+). For this reason, they are particularly suitable for installation in public buildings and highly populated public facilities and areas, for example in schools, hotels, large stores, office and tower buildings as well as in poorly ventilated areas such as underground car parks. The Ecoflex Plus Heatex cables are available with a 10 mm or 15 mm outer diameter; the Aircell Heatex cables with a 5 mm or 7 mm outer diameter.

Flame Retardant for Railway Applications

The Ecoflex Plus Heatex coaxial cables are manufactured in accordance with the DIN EN 45545-2 standard and are

The coaxial cables from SSB-Electronic reduce the spread of flames and release of heat in buildings, and greatly limit the generation of smoke, corrosive fumes and burning particles

therefore also suitable for use in rail vehicles, as specified in Table 5 of this standard. Depending on the hazard level (HL), which results from the operation category and design category of the rail vehicle, the corresponding requirements for flammability, density and toxicity of fumes of the materials and components used are derived and summarized in sets of requirements. According to DIN EN 45545-2 table 5, the Ecoflex Plus Heatex coaxial cables meet fire protection level R15 for cables and wires for interior applications (component number EL1A) and are suitable for use in rail vehicles with the second highest hazard level, HL 2.

In addition to the Heatex products, SSB-Electronic offers other flame retardant and halogen-free coaxial cables that can be used in environments with lower fire safety requirements – the well-known cable brands Aircell, Ecoflex and Aircom

Premium with an FRNC jacket with outer diameters ranging from 5 mm to 15 mm. These FRNC coaxial cables have the approval for the minimum fire protection class and meet basic fire protection requirements (flame retardant and free of halogen). They are therefore suitable for installations in the industrial and private construction sector, if compliance with a higher fire protection class is not required.

Marine Durability

Coaxial cables of the Seatex series for marine and offshore applications are also available. Seatex coaxial cables are intended for use in harsh marine environmental conditions due to their special weather-resistant SHF2 cable jacket and worldwide shipbuilding approval (DNV GL certificate).

The declarations of performance of the certified Heatex coaxial cables can be found on the manufacturer's website, where suitable coaxial connectors of all standards are also available. Upon request, the cables can also be delivered pre-assembled, including a detailed RF measurement report. The customer receives extremely flexible and low-loss, high quality coaxial cables that meet the specific requirements of the particular installation as well as all relevant requirements regarding fire safety.

CONTACT

SSB-Electronic
Lippstadt, Germany
Tel.: +49 2941 933850
sales@ssb-electronic.com
www.ssb-electronic.com

COVER STORY

Game on!

Salto and Gantner Create New Industry Force

The coming together of two leading innovators in access control and smart technologies creates a new force challenging the industry with more integrated and streamlined keyless and contactless solutions.

COVER STORY

7:30 AM

Smart home, residential smart door lock.

Smart and secure access to home door by enabling 24/7 mobile and keyless access.

8:00 AM

Gym access control 24/7

Door control terminals for faster access control and check-in for Gym.

Open any available locker door, connect your phone to the charging station.

8:50 AM

Cashless payment

Recharge wallet

Check-out from the Gym

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Late in 2020, leading access control solution provider Salto acquired Austrian-based Gantner Electronic. Together, Salto and Gantner provide the robust security users need while delivering smoother, seamless keyless experiences at every touchpoint during their daily routine. With complementary cultures built around talent and innovation, the combination promises accelerated developments in advanced smart access solutions, locker lock systems, digital key provisioning, cashless payments, ticketing and booking and data analysis with automatic event triggering.

The combined group is now one of the biggest players in access control and building management with arguably the most advanced and comprehensive product portfolio in the market and capability to deliver more than 1 million new access points annually. It also now fields one of the global industry's largest R&D teams.

Global Leader in Developing and Manufacturing World-class Access Control Solutions

With an impressive list of trusted, best-in-class customers from a variety of industries — from education, healthcare and commercial buildings to coworking and shared living spaces, retail, hospitality, and residential – Salto delivers industry-leading electronic locking solutions to markets across the globe.

The company has revolutionized access control with innovations such as the first stand-alone, battery-powered smart electronic lock; the Salto Virtual Network (SVN) data-on-card technology; and the first wireless access control system to combine a stand-alone locking device with online, real-time capabilities — all without wires or mechanical keys.

Salto was the early leader in cloud-based access control technology and has become a major player in keys-as-a-service providers over traditional access control solutions, accelerating digital access transformation projects. The Salto portfolio now includes world-class software management, cloud solutions, and mobile applications for businesses of all types and sizes.

Gantner specializes in access systems; locker systems; cashless payment, cash register and billing systems; staff time recording systems; and ticketing and management software for Attractions, Fitness Centers & Gyms, Corporate Smart Offices and Education facilities. Gantner customers range from small and mid-cap enterprises to industry-leading Fortune 500 companies.

Salto can fulfill virtually any technical and functional requirement, and Salto smart access solutions can encompass almost every access point in any building and its perimeter. With the Gantner acquisition, the company can now deliver over a million access points worldwide annually and add an extra layer of comfort and simplicity at every touchpoint during the user's daily routine.

With a combined workforce of 1,200 employees (230 dedicated to R&D) and locations in 40 countries, Salto and Gantner are ready to accomplish new growth projects and address new customer challenges — consolidating the group's position as the global leader in electronic access control.

One-stop Contactless Access Solution

Gantner is the latest in a series of acquisitions that have expanded and strengthened the Salto portfolio. Clay (NL) and Danalock (DK) were acquired in 2017 and Conlan (DK) in 2019.

This particular acquisition gives Salto added strengths in cloud and mobile access. At the same time, Gantner locker and ticketing systems and cashless payment technologies dovetail perfectly with Salto technology platforms for building management and smart access control solutions.

The addition of Gantner gives Salto arguably the most advanced and comprehensive product portfolio in the market, creating a very attractive and convenient one-stop proposition for property owners, managers, administrators and installers.Salto plus Gantner can create the ultimate keyless experience with access control, cashless payments and management platforms integrated and tailored for your business — whether it's a fitness club, waterpark, spa or ski resort, corporate or educational facility, apartments or hotels, hospital or a retail business.

9:00 AM
Access to workplace

Highly-adaptable solution to your system that provides access to the floor linked to user access rights.

Provide access control to those needing general entry into your working space.

Access can be restricted to general areas and meeting rooms or provided to gain entry into a private office.

Access control can even extend beyond the doors to the car park.

17:30 PM
Leisure and entertainment
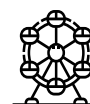
Ticketing, booking and payment experience by making cashless payments quick, secure, and digital.

Streamlining and Accelerating User Experience

A key driver in the acquisition was the opportunity for Salto to further strengthen its R&D capabilities and reinforce its position as an innovation leader. The combined group is now not only one of the biggest players in access control: it now fields one of the global industry's largest R&D teams. An early pioneer in RFID/NFC and contactless mobile technology, Gantner's hardware and software innovations have been transforming companies' interactions with users for 35 years.

Gantner solutions enable access points, check-in, lockers, vending and points of sale to all operate with a single credential. So, one RFID data carrier, card, wristband, or even a personal smartphone replaces the myriad problems associated with multiple physical keys.

Salto's enhanced offering means businesses can now offer guests and employees a hassle-free end-to-end journey that seamlessly streamlines and accelerates their routines.

This capability couldn't be more timely. As Salto co-founder and CEO Javier Roquero puts it, "One thing COVID has driven home is that more contactless solutions managed by end-users are very much needed and are here to stay".

Living With the All-in-one Smart Keyless Experience: What It Might Look Like

Salto security solutions deliver the peace of mind both property managers and users need. By adding Gantner solutions to our portfolio, users can now enjoy an extra layer of comfort and simplicity at every touchpoint during their daily routine.

What a few years ago might have been sci-fi fantasy, Salto and Gantner bring to everyday life:

- Start your day at the gym. Use your smartphone to check-in, activate the access gates and open your locker. Purchase your power shake or breakfast from the vending machine, paying with your phone. Need to top-up your wallet? Do it digitally and instantly.
- Continue on to work. Use your phone to access the main entrance and unlock your floor in the elevator. When visitors arrive, give them access to your space (and nowhere else) without leaving your workstation.
- As the work day ends, buy a ticket and enjoy a museum visit with a friend, digitally and securely via your smartphone.
- Back at home, use your phone to access your living space. When dinner arrives, give the delivery person access remotely from your phone.

Global Network: Whenever, Wherever

Joining forces with Gantner reinforces Salto's already remarkable global strength. With 40 offices and a global international structure of 28 subsidiaries, Salto was already one of the world's top three electronic lock manufacturers. It was well established in commercial and manufacturing environments, public institutions, healthcare facilities, educational settings and campuses, transport installations, retail, working spaces, coliving, as well as the hospitality sector.

Over 40 million users daily employed Salto solutions at 5 million Salto-equipped access points worldwide. Gantner was enjoying success in complementary geographies and verticals including fitness, attraction, corporate and education.

The combined group can now reach a much broader international pool of customers, deliver more than 1 million new access points annually, and deliver enhanced levels of innovation and integration.

Commitment to Sustainability

Recognizing its environmental and social impacts, Salto has committed to a variety of specific Sustainable Development Goals (SDGs). It is transforming its corporate policies, products and operations to increasingly sustainable models. The factory headquarters is now 100% carbon neutral, a significant step in making keyless smart access technology sustainable.

Many of Salto's SDGs relate to environmental sustainability, such as climate change, sustainable operations, responsible consumption, and product eco-design.

Salto plus Gantner creates a new industry player that aligns with Salto sustainability vision of becoming the most technologically advanced access control provider that develops disruptive and versatile electronic smart locking solutions worldwide. It will enable streamlined user experiences, plus greater accessibility, mobility and interactions with a simplified and integrated approach delivering the vital customer benefits of speed, convenience, ease and autonomy.

Panasonic
BUSINESS

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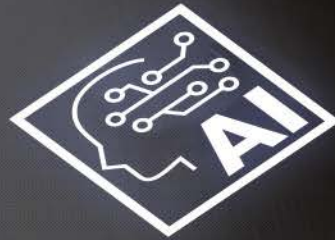
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Room/apartment doors can be assigned to a building/hallway, making programming quick and easy

A company building is a perfect candidate for a simple retrofit with an offline-based access system

ACCESS CONTROL

Simple But Effective

Südmetall Presents ÜManagement 2.0

Südmetall Schließsysteme focuses on the development and production of electromechanical locks and access solutions 'Made in Germany'. An experienced and motivated team at the Leipzig site works intensively together with highly qualified partners on smart solutions for electronic access management. Because needs change over time, Südmetall strives to continuously optimize and improve its own products. All this is done with the aim of making life a little more convenient, safer, and therefore better.

One of the company's ranges, ÜLock-B, is a product group of locks with a panic function, which comes in several variants: ÜLock-B Cable, ÜLock-B Battery and ÜLock-B Inductive. Brand new on the market is the ÜLock-Z, effectively a ÜLock-B with access control on both sides, i.e. without panic function, for particularly sensitive rooms. Here too there are wired, battery-operated, and inductive variants.

Safe From Both Sides

The ÜLock-B locks offer security on both sides of the door – for the protection of human life and material assets. A panic function in the direction of escape ensures a safe exit in the event of an emergency, and the self-locking feature ensures that the door is otherwise always bolted. The lock offers no attack surface from the outside as the electronics are installed completely within the lock case and the lock has a high resistance class against mechanical manipulation. The fittings are freely selectable according to the design requirements of the particular object – additional/new door fittings are not mandatory. Data transmission between the lock, RFID card and RFID reader is encrypted in the best possible way – which ensures the best possible protection against burglary. Access management is handled by the license-free ÜManagement 2.0 software.

ÜLock locks are perfect for retrofitting because the doors do not need to be wired. In addition, the 'Data on Card' access control operating principle means that no network wiring is required between the doors and the computer. Both battery-operated and inductive locks are compatible here. A common power supply of the reader and the ÜLock-B Inductive is possible; alternatively, battery

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operated readers can be used. Application in fire protection doors is also possible as the locks are certified accordingly.

Management Platform

The new ÜManagement 2.0 from Süd-metall is as simple as it is ingenious: it is a license-free management software package for access control with which individual buildings but also small to medium-sized hotels or several properties can be easily and simultaneously managed. Thanks to the uniform management of different locks, Südmetall ÜLocks, electronic cylinders and door handles can be controlled and individually managed according to the respective requirements. Direct authorizations and authorization groups/user groups can be assigned to the individual keys via the software. If a transponder is lost, there is a very low risk because it can be blocked or black-listed with very little effort.

The software installation is carried out either via the single workstation version or via an SQL Server and multiple workstations. The software is convenient and secure, with individual rights assigned to each operator and automatic locking. There are no license fees and it is optimized for retrofitting.

Depending on the specific requirements, the software can be configured in two operating modes. While the 'Management' operating mode is tailored to small to medium-sized applications thanks to its simple operation, the 'Professional'

An electronic cylinder is used here because wiring the entrance door would be too complex and cost-intensive

operating mode enables further flexible options for larger applications, without losing any clarity. Different physical zones can be selected for each time zone. Room/apartment doors can be assigned to a building/hallway, which means that access to the respective doors does not have to be set separately. Common rooms can be assigned to a door group and additional groups can be assigned to a door, so that the selected door automatically

receives authorizations to the selected door groups (such as a swimming pool or a sauna). Automatic unlocking times are enabled by the time zones.

CONTACT

Süd-Metall Beschläge GmbH
Ainring /Hammerau, Germany
+49 8654 467550
info@suedmetall.com
www.suedmetall.com

Explosion-Protected Cameras

Axis Communications has announced plans to develop its own explosion-protected surveillance cameras and devices through a new subsidiary, Axis Ex AB. With the new company's quality management system in compliance with the appropriate international standards, Axis can manufacture and sell its own explosion-protected equipment certified according to ATEX, IECEx, METLabs and other global certifications. The first explosion-protected cameras models from Axis will be available in summer 2021. Working with manufacturing partners, Axis has provided a broad portfolio of explosion-protected network cameras since 2015. With market growth and the benefits of explosion-protected cameras being recognized in numerous industry sectors, the move represents a significant step to create explosion-protected devices across its product portfolio. Axis can now take full responsibility for the design and quality of the product, from drawing board to delivery, to service and support.   **www.axis.com**

Mobile Access Compatibility

Aperio mobile access is built on Seos, a platform with cryptography and authentication. Compatibility and security are at the heart and Aperio locks are compatible with all major RFID credentials, as well as with Bluetooth and NFC mobile wireless protocols too. Businesses can run RFID and mobile in parallel. Mobile access is changing the way we interact with buildings and how we manage their security, and Aperio battery powered locks from Assa Abloy are enabling the change. The smartphone becomes a mobile key just as easily as it transforms into a payment card or a map. The security of a mobile credential is assured because biometrics are built into almost every modern smartphone via fingerprint or face ID unlocking. For buildings equipped with Aperio locks, the cost of upgrading to smartphone keys may be zero: the wireless locking technology has mobile access baked-in. They are quick to install, cost-efficient to run and integrate seamlessly with security systems from over 100 different manufacturers.   **www.assaabloyopeningsolutions.eu**

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More Critical Than Ever

Access Control Solutions for Critical Infra-structure and High Security Applications

SPECIAL
FOCUS

We hardly notice them, but they are there, all day and every day; the equipment installations and their control and monitoring systems that supply us all with electricity, telecommunications, gas and water. Those are perhaps the services that first come to mind without which we would all have serious difficulties very quickly – daily life would also be radically different without quite a few others. Ensuring that these installations are not accessed by unauthorized people is the job of well thought-out security systems. GIT SECURITY takes a look at some of the solutions to mitigate the risks of theft, vandalism and acts of terrorism and to protect critical infrastructure and other high security locations.

Any technology that is applied to protect such locations can itself often be faced with some unusual challenges: high levels of dust and moisture – think roadside equipment; extremes of temperature – think mountain-top installations; strong electromagnetic fields – think electricity sub-stations; corrosive atmospheres – think water treatment plants, or high levels of vibration or mechanical shock – think railway track-side equipment. As well as being physical, the challenges can also be digital, financial or regulatory, accidental, malicious, or coincidental. We concentrate

here on the first category and mention below some manufacturers of equipment who have products specifically designed to tolerate such conditions and nevertheless provide reliable service.

Simple Remote Sites
The increasing availability and usage of encrypted LoRa (long range, low power wireless) has solved a long-standing

◄ **A mobile phone is just one type of credential that can be used with Salto's access control systems**

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problem for the IT and security departments of utility companies. Whereas they might earlier have had to build and maintain an expensive microwave network between sites to reach outlying locations – whose capacity was seriously underutilized – the advent of effective long-range radio networks to transport low volume data means that utilities' equipment can be security monitored, operationally monitored, and controlled with a lot less infrastructure than was previously required. But physical access even to that equipment must still be secure and yet easy for authorized technicians. For example, some of the Uhlmann & Zacher electronic door handle, electronic knob, and wall reader products are built for just such use outdoors. In America, the experience of chilly North Dakota-based New Vision Security Systems will greatly benefit customers with critical infrastructure to protect. And while we're in the USA, the National Institute of Standards and Technology (NIST) has produced a very helpful White Paper specifically covering Identity and Access Management for Electric Utilities – link below – that can also by applied to other utilities and high-security locations.

Computer and Colocation Centers

A world without the Internet and the nebulous Cloud would be unthinkable nowadays. And yet, this 'thing' exists only in virtual form, spread across thousands of locations around the world in whirring buildings. These must obviously be secure locations, but surprisingly and in spite of their obvious importance, they are not necessarily considered as 'critical infrastructure' in every country. Their owners are often not their operators, and they in turn are normally not the clients or end-users of the equipment that is housed there. So a clear division of responsibility and defined lines of demarcation are essential to be sure of who is taking responsibility for each aspect of security. Someone has responsibility to ensure that supervised access – both physical and electronic – to racks of servers and transmission equipment is working effectively 24/7. So we see a mix of employees, contractors and – very occasionally – visitors within the site.

We have to accept that a concentrated attack on such infrastructure installations will probably succeed when an overwhelming amount of force used, and this cannot be considered under the 'normal' security planning. This 'worst-case scenario' of the loss of resources at a particular location forms the bottom line of the overall security concept, but leads on of course to the separate plan for recovery and repair. In such cases, having the right personnel available quickly and without having to worry about further security issues is essential, so do not delay the preparatory work of installing a flexible but secure access control system that can suddenly cope with unusual hours of work by both employees and external contractors.

EAS products protect fencing systems through sensitive vibration detection algorithms

The multi-focal Panomera cameras from Dallmeier provide the overview and the detail simultaneously

What a Shock

Our good friend from the kitchen, the onion, serves well to visualize the multi-layer active security risk management concept that we need to protect anything other than the simplest building. At the perimeter of the site there should be a physical barrier – a fence – high enough and painful enough to deter scaling. Best of all, this can be equipped with motion and damage detection, for example the VibraTek system from Detection Technologies or the fiberoptic-based FiberPatrol product from EAS. Alternatively you can go the whole hog and electrify the fence, but we do urge you to check that this is legal at your location before doing so! Advanced Perimeter Systems in Scotland can literally empower your site with a well thought-out electric fencing solution.

Where visible physical barriers are either impractical or unwanted, invisible infra-red, microwave or radar barriers can immediately detect intruders and trigger lights, sirens, or the dog-handler. The Micro-Ray from CIAS is one such product, while a solar-powered alternative called Solaris is available from the French manufacturer Sorhea. The columns from Sicurit can incorporate dual detection technology, to be sure of correct detection and a minimum of false alarms.

Multi-Room Buildings

To actually enter a building, after personal, face-to-face recognition, some sort of electronic access control credential should open the first of a number of access control points. Today you can use a card, a fob/token, an electronic key, a mobile phone or other device that reacts over a short distance using RFID, Bluetooth low-energy or, if preferred, only by actual contact with a reader. Choose from the wide range of systems now on the market, for example from Assa Abloy, Salto Systems or SimonsVoss.

One At A Time Please

Although tradesmen with ladders abhor them, an interlocking door or 'man trap' provides a very secure method of restricting personal access and totally prevents any sort of rushed attack. The Swedish manufacturer Gunnebo is one whose CompacSas single person entry/exit products might be of interest to you; the
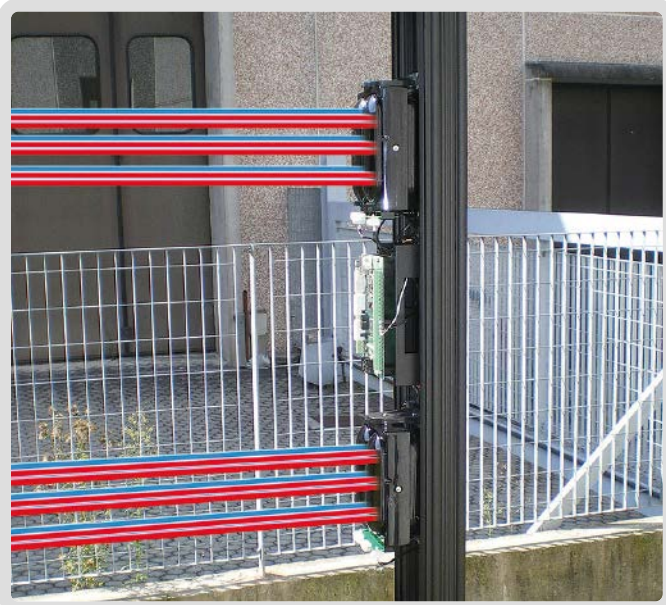
The invisible beams between security columns made by Sicurit detect human intruders while kevweping alarms caused by animals to an absolute minimum

Clearlock, Revlock or Interlock security door series from Automatic Systems of Belgium might also be too.

Deeper within the building, the same credential used at the building entrance can form one of a two-part authorization system for enhanced security. The second check could be a – nowadays quite common –fingerprint scan for example, or even a special iris, retina, or hand vein scan for higher security situations. You could get in contact with Nedap Security here whose AEOS access control system is an open platform that already integrates well with many other specialist systems to provide tailor-made solutions to specific security situations.

Within the security control room where staff are present 24/7, indoor and outdoor surveillance cameras are monitored both by people and also by pattern recognition algorithms for unusual activity, even at far away sites. The power of software to detect unusual situations without raising false alarms grows year by year. This can be experienced first-hand in the systems from Geutebrück for example, whose wide range of cameras and indoor components ensure that no part of a site goes unwatched, day or night, come rain or shine. Their video content analysis is trained to raise the alarm only when required and to ignore the trees waving in the wind. Dallmeier's Panomera cameras and extensive video analysis portfolio could also be of interest to you here, with some interesting downloads on the subject available from their website.

Don't Forget the Roof

While we might have secured a building at ground level, a not so uncommon way of unauthorized entry is via the roof. One or more cameras from the suppliers mentioned above, equipped with content analysis software, will give an early warning of unusual activity there day or night, in particular of tampering with roof-mounted HVAC or communications equipment. A less obvious but equally effective detection method is using infra-red beams, for example with the RLS detector series from Optex in Japan. Secure skylights from Velux, for example, will also stall and deter any break-in attempt from above, and a rolling shutter will add an extra level both of security and comfort.

Whatever the weather at your remote site, the Uhlmann und Zacher electronic lock systems are built to handle it

System 3060 from Simons-Voss is a flexible access control management solution that covers all types of entrances and exits

Standards

There are a number of recommendations and standards that apply to the security of certain special installations, any or all of which might apply to your particular operation, and there may be more that we have not mentioned here. For example, data centers in Europe should be constructed, secured and their availability ensured in accordance with the latest iteration of EN 50600-2-5:2021. The ISO/IEC 27001:2013 standard specifies the requirements for establishing, implementing, maintaining and continually improving an information security management system. ISO/IEC TS 30104:2015 addresses physical security attacks directed against hardware, provides guidance on principles, best practices and techniques of tamper protection mechanisms as well as mitigation guidance and evaluation of hardware tamper protection mechanisms. ASIS has just released a revised and very helpful Physical Asset Protection standard, while the New Zealand government has issued its expectations of security measures in a well-structured PSR document. The European Union's EPCIP program (European Program for Critical Infrastructure Protection) aims to reduce the vulnerabilities of critical infrastructure through a package of measures across Europe. How effective this has been since its initiation in 2004 will no doubt be kept a closely guarded secret.

The Human Factor

In quieter times, an attack on critical infrastructure may be a lot more subtle. Personnel are people, people are normally honest, and honesty can be compromised. It is good practice to regularly check that all is well at a social level with the staff who are entrusted to operate and maintain critical infrastructure. They should be able to communicate any problems to their superiors easily and without fear of retribution. And there should also be a way for staff to communicate a potential problem of blackmail using a 'silent alarm', be that through their choice of words or, when it comes to operating equipment, by using a pre-agreed sequence or code. For example, access control equipment can be programmed with two codes, both of which will open a door, but one of them will activate a silent alarm if they are being forced to provide access unwillingly. Getting a grip on the personnel side of security is a specialty of Privatismus, a consultancy for personal and business protection. Mobius International also offer anti-bribery management systems as well as a risk and vulnerability assessment service and could turn up some surprises.

In summary, protection of critical infrastructure should be multi-layer and multi-disciplinary. The right combination of measures will, as usual, be different for each client and for each location. With this article we hope to have stirred your imagination, and possibly to have alerted you to potential weak points in your own security concept. The topics above are, of course, not exhaustive, but GIT SECURITY will continue to address these and other related security topics in forthcoming issues. ■

Suppliers

Advanced Perimeter Systems
www.advancedperimetersystems.com

ASIS · www.asisonline.org

Automatic Systems
www.automatic-systems.com

CIAS · www.cias.it

Dallmeier · www.dallmeier.com

Detection Technologies
www.detection-technologies.com

Dormakaba · www.dormakaba.com

EAS · www.eas-pr.com

Geutebrück · www.geutebrueck.com

Gunnebo · www.gunnebo.com

Hikvision · www.hikvision.com

LoRa · www.lora-alliance.org

Mobius · www.mobius.international

Nedap · www.nedapsecurity.com

New Vision · www.newvisionnd.com

Optex · www.optex.co.jp

Privatismus · www.privatimus.com

Salto Systems · www.saltosystems.com

Sicurit · www.sicurit.it

SimonsVoss · www.simons-voss.com

Sorhea · www.sorhea.com

Uhlmann & Zacher · www.uundz.com

BIM

Digital Building Collaboration

How the Detailed Assa Abloy BIM Product Files Helped an Architects Team
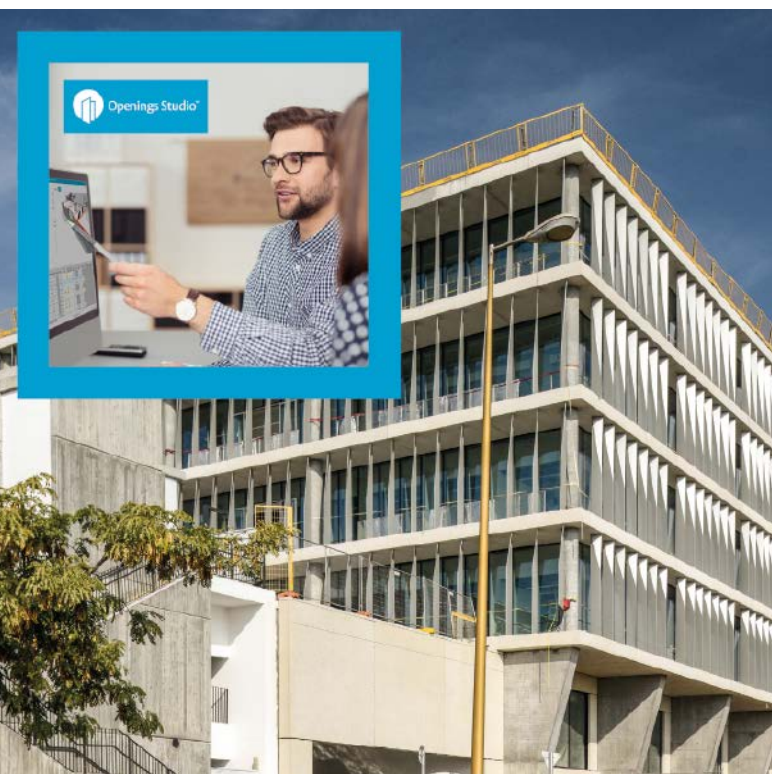
A BIM (Building Information Modeling) partnership between an architect and Assa Abloy Opening Solutions has kept a complex project moving forward. Working with Assa Abloy building information modelling (BIM) consultants helped Zarhy Architects and Studio PEZ maintain the flow of up-to-date information for a complex, constantly evolving project, and left them free to focus on creativity and delivery. Collaboration was key to successful design and building specification for the Broadcom R&D Center at Tel Aviv University.

The Assa Abloy BIM consultancy team has experience on projects of every size — from a single door to 15,000 — and used it to help create a fast start-up curve for the architecture practice. Zarhy Architects were new to the multidisciplinary BIM process so Assa Abloy provided a comprehensive BIM Objects library to specify the Broadcom building. This set of downloadable files incorporates complete door, frame and hardware specifications for Assa Abloy Opening Solutions' range of door solutions. File packages include geometry, safety data, environmental product declarations (EPDs), and links to other relevant information. These BIM Objects files open directly inside Zarhy's design software, Autodesk Revit, saving the architects' time and enabling rapid product visualization.

Supplementing this specification partnership, Assa Abloy brought independent security and safety expertise to the project's BIM team and coordinated knowledge transfer between all the project's stakeholders through planning and construction phases. By enhancing the existing workflows, Assa Abloy's BIM consultancy helped Zarhy to deliver on schedule. According to the architect in charge of the project, Nimrod Schenkelbach, Assa Abloy's "deep understanding of complex safety and security requirements" helped them identify and deliver creative solutions to their clients. Alongside specialist input from the BIM consultants, software also played a critical role in the collaboration: "Openings Studio software introduced us to a whole new way of thinking and efficiency," added Schenkelbach.

The resulting 450-door, mixed-use university building now houses both student classrooms and offices for faculty professors and Broadcom semiconductor engineers. Abloy electro-mechanical locks, Tesa panic bars and U-shaped handles, and Rockwood plates and handles were all specified from the Assa Abloy product range.

Simplifying Specification

Assa Abloy's BIM experience helped Zarhy Architects to supply their client with ongoing ideas and the specification support essential for a multifaceted project. Its consultants fully integrated with the project from the beginning and were available throughout — including via direct communication channels within Openings Studio software — to help ensure that the specifications required for the project were all met. Openings Studio software delivered detailed specifications directly to Zarhy's Revit files. This integrated design and specification phase streamlined the process, minimized errors and saved the architects' time. "A direct channel between requirements and supplied solutions was very important," added Daniel Zarhy, partner. Openings Studio remains current and accessible over the lifetime of a project and building. Everyone working on the new R&D center through its life-cycle can always find the information they need, fast.

DIGITAL ACCESS MANAGEMENT

Send and Save

A Collaboration to Neutralize CO$_2$ Emissions

iLoq takes care of its courier and parcel transport in a CO$_2$-neutral manner in cooperation with UPS. Through their carbon neutral program, UPS provides companies with an easy environmental solution to neutralize CO$_2$ emissions from transportation.

iLoq is a rapidly growing Finnish company in the digital locking industry that transforms mechanical locks into digital and mobile access management. Its solutions are based on technologies developed and patented by the company, enabling electronic and mobile locking without batteries or cables. It replaces mechanical and electromechanical locking systems with environmentally friendly solutions that solve the problems of lost or copied keys, reduce lock maintenance and minimize lifecycle costs.

The company offsets emissions from its transportation through UPS to verified environmental projects where methane is turned into biogas for heat and electricity production. UPS carbon neutral option is verified by Société Générale de Surveillance (SGS) and the carbon offset process adheres to The Carbon Neutral Protocol from Natural Capital Partners. Current UPS carbon neutral program projects include the Chol Charoen biogas capture scheme at Cholburi in Thailand and the Wolf Creek landfill gas capture scheme in Georgia, USA. The projects follow The Gold Standard, Climate Action Reserve (CAR), Certified Emissions Reduction (CERs), EU Emission Allowance (EUA) and American Carbon Registry (ACR) standards.

Offset Footprint

"At the beginning of 2019, we signed a wider cooperation agreement with UPS", explains Pekka Hassi, iLoq's Senior Sourcing Manager. „This involved centralizing all customer deliveries outside Finland, as well as inbound global package and courier services to be handled by UPS, under the same agreement. As our cooperation grew and deepened, in 2020, we also signed a CO$_2$ emissions agreement, which covers air and road transportation, regardless of the service class of the shipment."

„With our previous CO$_2$ emissions agreements with other LSP´s, as well as the CO$_2$ agreement with UPS, we can proudly say that we will offset all of our carbon footprint of both inbound and outbound transportation. In this way, we are committed to working for a cleaner and more vibrant environment, and our cooperation also supports iLoq's own environmental responsibility. Every year, our self-powered solutions save a lot of battery waste compared to battery-powered locking solutions. In 2020, although global freight capacity was reduced, I am very satisfied with UPS's operations and services even during Covid-19 times. UPS has helped us as a company to move all our shipments to the

right places on time. On time deliveries, customer service, information flow and availability of preliminary information have been excellent. This trust allows us to focus on other supply chain topics and let UPS handle our courier and parcel services."

Less impact

"Our customers want to ship more, with less environmental impact," says Michiel van Veen, UPS Nordic Country Manager. „To deliver what matters, we are accelerating our efforts to create more sustainable solutions, including our UPS carbon neutral service which has saved more than 100,000 metric tonnes of carbon every year since 2010. Through collaboration and innovation, we can continue to move the world forward, supporting our people and communities shift to a low carbon and sustainable future.

CONTACT

iLOQ Oy
Oulu, Finland
Tel. +358 (0)40 3170 200
joni.lampinen@iloq.com
www.iloq.com

Wiley Industry Days
WIN › DAYS 7-9 June www.wileyindustrydays.com

www.GIT-SECURITY.com

Vincent Dupart,
CEO STid

ACCESS CONTROL

Flawless Security Within Access Control

How STid Fulfills User Expectations in Access Control Solutions

François Gitz,
Sales Manager STid

STid, leading developer of high security contactless identification solutions, designs identification products and solutions for high security access control and automatic vehicle identification. In this interview with GIT SECURITY, Vincent Dupart, STid's CEO, and François Gitz, STid's Sales Manager, explain the their keys of successes and users' expectations in the access control market.

GIT SECURITY: What are the end users' expectations in access control?

Vincent Dupart: The current health situation is a typical illustration of the importance of modularity. The "unexpected" has abruptly changed customer's needs. STid is especially well-positioned to address these new challenges. Our high security Architect Reader range is extremely modular and offers a real alternative to full replacement of older technologies. Our readers can evolve by simply adding Biometric, QR-Code and Multi-technology modules to meet the everyday demand for additional functionality and safety.

François Gitz: QR code is a perfect example. Visitor access management demand has soared. A technological answer was needed for customers already equipped with readers, without replacing their current installation. The Architect QR Code module can be easily connected to the existing reader. It is a cost-effective and reliable solution to visitor management within an office or facility. QR Codes can be generated by existing systems/software and used in paper format or onto the smartphone (by email, virtual cards,

and so on). One effective and yet secure way to easily manage different user profiles such as visitors, temporary contractors, employees, drivers, deliveries etc. with simplicity and security!

Could you explain what 'instinctive security' means?

François Gitz: 90% of people consider access control as a constraint. With STid, access control becomes instinctive and still guarantees data protection. For example, with STid Mobile ID: we offer new modes of identification to allow users contactless entry choices and simplicity. STid's innovative solutions ensure that access control is no longer seen as a constraint. STid Mobile ID is now compatible with SIRI on iOS to effortlessly open doors. With a simple "Hey Siri, open the door!", you can pair your iPhone's voice command with STid Mobile ID to achieve perfect contactless access!

Vincent Dupart: We accepted the "security sector" challenge to combine seamless identification and flawless security between the card and the reader and between the reader and the controller.

This last part is the distinct role of the SSCP and OSDP protocols. To build trust through certification, freedom and interoperability delivering end-to-end security throughout the entire system. Open and interface agnostic protocols like SSCP are based on certified security and transparent technology which delivers total customer independence and autonomy to their security management.

What about your next steps?

Vincent Dupart: Continuing to grow by designing solutions that simplify and protect users' daily lives! Imagining new modes of identification, continuously improving the ergonomics of our solutions, etc. we will carry on working every day to make access control ever more instinctive and secure!

CONTACT

STid
Greasque, France
Tel.: +33 442 126 060
www.stid-security.com

5x3 Biometric Sensors

1. What type of biometric sensors do you recommend for access control applications?
2. What do you see as the biggest challenge in the use of biometric sensors and how do you approach this challenge?
3. Please describe one highlight of your product offering with the best performance for biometric access control?

Jaroslav Barton
Director Product Marketing,
Physical Access Control,
HID Global

www.hidglobal.com

1. Contact-based fingerprint readers have extremely high accuracy so we recommend these for access control. Today's modern fingerprint authentication solutions deliver a unique combination of ease of use, availability and convenience and higher security to physical access control systems. With improvements in liveness detection, system architectures, performance and ability to be easily incorporated into access control solutions, they seamlessly combine security and convenience to make them a viable option when accessing a facility, networks and services.

2. The global pandemic has dramatically increased interest in contactless technologies, but the challenge is the expense, suitability and accuracy of contactless biometrics. Contactless scanners or facial recognition don't have the accuracy of contact-based fingerprint readers. And even in situations where authentication doesn't involve touch, the next steps almost always do: opening a door, handling a phone, keyboard or mouse. Our approach is that it is far better and safer to have more secure authentication combined with smarter hygiene practices, such as routine disinfection of devices and hand sanitisers. That way we can keep people secure and safe.

3. The iClass SE RB25F fingerprint reader is a highlight in HID Global's extensive line of biometric solutions for physical access control. Designed for two-factor authentication using fingerprint and/or high frequency credentials, the iClass SE RB25F offers superior performance, with mullion mount capabilities and Seos support for securing high value doors. Built for extensibility in demanding applications, the iClass SE RB25F supports a broad array of high frequency credential technologies and comes standard with HID Mobile Access and OSDP.

1. Idemia's classical OEM fingerprint touch sensors and SIGMA range of terminals are highly developed, capture a larger area of the fingerprint, have anti-spoofing integrations, and BSI certificates. However, nowadays contactless biometric solutions are of high interest. Our 3D fingerprint sensor integrated in the MorphoWave allows contactless reading of up to four fingers in a single hand wave motion. Also, combining 2D, IR, and 3D sensors allows our facial recognition terminal VisionPass to provide a secure, user-friendly, and contactless experience. Especially in lobby areas where a high throughput is required, contactless solutions ensure a secure, fast, and convenient user experience.

2. Concerns about GDPR are slowing down adoption and may raise some concerns. We assist and advise our customers in the process of drafting required "Privacy Impact Assessment" and "consent of users / a legitimate interest" documents. More importantly, we have designed our terminals with 'Privacy by design & by default' principles as required by GDPR regulation. For example, fingerprint or face images are not stored, and no reverse engineering attempts on encrypted templates are possible. Users explicitly gesture to show intention to use the devices and all the personal user data is hosted and controlled only by the end-customer. The "right to be forgotten or consent withdrawal" for a user can also be performed easily.

3. The MorphoWave is a truly unique product. It works by simply waving your hand over the sensor where up to four fingerprints are scanned in a single hand movement. Acquisition of the fingerprint is dynamic, high-speed, and 100% touchless. This is very hygienic. The sensor uses a richer image with about 30% more area than conventional contact sensors which results in higher accuracy. The MorphoWave delivers high throughput and is neither affected by light or dust nor by wet, dry, dirty fingers or damaged fingerprints. With Ethernet, WiFi, Wiegand, OSDP, RS485, RS422 or Clock Data it can be easily integrated in any access control architecture.

Soeren Wendland
Regional Sales Director for
Central Europe, Idemia

www.idemia.com

1. We recommend palm vein recognition sensors. Our palm vein sensor operates completely touchless which is especially important in today's hygiene sensitive environments. Its False Acceptance Rate of only 0,00008% with a False Rejection Rate of 0,01% guarantees reliable usage in all areas be it comfort or high security applications. Our sensor can be adjusted for different exposures to light and thus be operated in outside areas as well as indoor areas.

2. In Europe regulations regarding the GDPR are a challenging task for companies wanting to introduce biometric access control to their facilities. Biometric data for individuals is considered sensitive personally identifiable information, and as such it requires a higher level of protection. Usually, an individual's explicit consent is required to operate biometric access control systems. With our TemplateOnCard technology biometric templates are not stored in databases but instead on the user card only. During the authentication process the device verifies the presented template. This way control over the biometric data is always in the hands of the user, which is often an important fact for employees.

3. Our Intus PalmSecure solution combines outstanding security and ease of use. It is suitable for numerous use cases be it high security or comfort application, indoor or outdoor. With our latest product relaunch, we implemented an optimized setting for areas with high light exposure to provide reliable authentication results even in outdoor areas – a field where other optical based systems often tend to have issues. Furthermore, we optimized authentication times to be as low as 0,5 seconds.

Stefan Erber
Product Manager
Hardware and Biometrics,
PCS Systemtechnik

www.pcs.com

1. Fingerprint recognition is a stable technology that has been tested and improved for decades and will continue to be used, but since the outbreak of COVID-19, the demand for contactless biometrics increased and for this growing demand, we recommend facial recognition.

2. The biggest challenge – or 'change' – in biometric recognition technology comes from the advancement of deep learning AI and visual-based face recognition. Before deep learning, we had to choose the features in data (face images) to train the AI and the AI was trained with relatively limited amount of data acquired on the biometric recognition devices. But now with deep learning, AI is able to extract the features on its own and all we need is a huge amount of correctly labelled data, not necessarily from the biometric devices, to feed the AI. Suprema has a team dedicated to developing AI-based biometric technology, striving to further enhance the accuracy of its algorithm.

3. Suprema's latest face recognition terminal FaceStation F2 provides exceptional authentication results by utilizing both visual and IR face recognition. While other facial recognition technology uses IR recognition only for anti-spoofing purposes, Suprema FaceStation F2 uses both IR and visual recognition to capture face photo, generate templates and perform matching of templates. We have named the technology 'fusion matching' as it yields the best matching results by optimizing IR and visual matching scores and balancing them alongside environmental factors such as the intensity of illumination.

Seongbin Choi
Head of Suprema R&D
Center, Suprema Inc.

www.supremainc.com

1. There is no one-size-fits-all biometric sensor for access control applications. The TBS approach is to tailor the ideal solution to the needs of our customers in terms of environment, performance, and security – among others. For instance, the perfect access control solution for a high throughput environment such an airport might differ from the most suited setup for a governmental data center. The key technologies enabling biometrics access control are 3D touchless fingerprint scan and iris recognition.

2. Holistic end-to-end security. From integration, to enrollment, identification, verification, and data management. When a secure biometric solution is in place, security becomes 'invisible'. However, the consequences of a breach in security are painfully tangible and quickly cascade. TBS focuses on prevention, that is, designing bullet-proof biometric sensors & solutions. Access control applications demand flexibility (outdoors/indoors, integration, automation) without compromising on performance or security.

3. From a security standpoint, TBS flagship, the 3D Terminal, is the go-to solution. The three-dimensional and contact-free fingerprint scan terminal provides highest security, recognition performance and multifunctionality. Seamless security is achieved thanks to live detection, multi-level data encryption, template on card, and anti-tampering. Unlike other technologies, 3D fingerprint scan delivers the highest accuracy – also referred as 'true identity'.

Natalia Román
Chief Marketing Officer
at Touchless Biometric
Systems

www.tbs-biometrics.com

ACCESS CONTROL

No Touch, No Problem

How QR Codes Add Benefits to Access Control

While QR codes aren't new, it's fair to say that 2020 became the comeback year for this technology. Be it the replacement of paper menus with QR codes on tables, which guests could scan to get a virtual menu on their mobile device, touchless payment options, or access control solutions that allow contactless visitor management – the global pandemic put contactless technology back in the spotlight. What also came into focus was the healthcare industry, that had to suddenly adjust to the new situation – probably more than any other industry. In the attempt of keeping people healthy and safe that's when these two sectors crossed – because access control (specifically with QR code systems) played an interesting role for healthcare establishments.

Given the initial uncertainty of how the virus was spreading, it's understandable that people want to minimize contact with surfaces, including doorknobs and handles (and were told to do so). Adding QR to the access control solutions provides not only a more hygienic way of opening a door – it also comes with an extra layer of security, flexibility and scalability in visitor management applications. Features that are useful for many industries – from offices to the healthcare sector.

QR Codes and Visitor Access – How Does it Work?
The principles behind QR codes in access control systems are similar to other use cases: It's an interplay of the information that's saved in the QR code and a camera that can read the code.

In access control solutions, the visitor credentials are saved in the QR code, which is submitted to the individual's device. The camera on a network intercom mounted at the door acts as a reader to provide those credentials to a network door controller, which can access and identify the associated validity date and time for those credentials. If the information in the system matches the ones in the code, access to the specific area or building is granted.

It adds a layer of additional security in not solely relying on someone checking a schedule to grant access (which can leave room for human error). Where it's particularly useful is in establishments that have a high visitor flow, or that include restricted areas that are only accessible with the respective authorization (which comes with the QR code).

Another impactful benefit of QR code-based systems is that they're free to issue, and easy to personalize for a temporary amount of time, as opposed to handing out RFID cards which are expensive, easy to lose, and more time-consuming to issue. This is particularly interesting for establishments with a limited budget for procurement and maintenance, such as hospitals or universities.

More Flexibility and Security no Matter the Time
Having QR codes and readers integrated in the access control system allows for more flexibility when it comes to visitor management as well as a better overview of who is visiting and when.

One example, where adding QR code readers provided a secure, yet flexible visitor management solution for a complex access setting, was at a digital start-up centre in Germany – the

Wiley Industry Days
WIN ❯DAYS 7-9 June www.wileyindustrydays.com

www.GIT-SECURITY.com

Einstein 1. It's located at the campus of Hof University of Applied Sciences and consists of three different usage zones:

- One meeting area, that's open to all students and entrepreneurs
- A co-working space, that's only accessible for registered visitors but can be used 24/7
- The first floor, that houses 12 fully equipped start-up offices, including furniture, internet and telephone system, which can be rented by entrepreneurs and start-ups

Having all these different visitor groups and zones with various security and access requirement posed a challenge for the access and security regulation throughout the whole centre. By installing several door controllers, network cameras and implementing the QR code system, it is now possible for co-workers to rent, for example, a day pass online and get the temporary QR code sent to their mobile device. The code grants access to the booked space in the building but keeps the restricted areas locked. The arrival time can be adjusted online if necessary.

To separate the different visitor groups, students are set up to only get access during the opening times of the university, while entrepreneurs have unlimited access to the building (and additional key cards for the office rooms and elevators).

From a security perspective it's also a useful way for security operators to track who actually entered the building at what time without having to go through hours of video footage. A feature that provides an overview of the number of visitors can be useful in case of an incident to trace back who was on the ground. The network surveillance cameras on-site could then be useful to identify individuals if needed.

With this combination of network cameras and intelligent access solutions, the different users are now able to enter as autonomously as possible, while ensuring that the hardware that start-ups store there is protected against theft.

Keeping People Safe and Healthy – The Importance of Access control in the Healthcare Sector

The Covid-19 pandemic and the fact that people want to keep the touchpoints to surfaces to a minimum applies nowhere more than in the healthcare industry, and in hospitals most critically of all.

When it comes to Covid-19 a single person can infect 2 to 4 people, according to the Joint Commission. After 5 transmission cycles, that could mean upwards of 345 people being infected. Replacing keypads with low touch access control like QR code readers to automatically open and shut doors can act as a force multiplier for healthcare facilities as it reduces the amount of shared contact points through which people can become infected.

Just like in the example of the start-up centre, visitors and employees would get a personalized QR code sent to their smartphone or other device that grants them access to the facilities and ensures nobody is entering areas they're not authorized for, such as the ICU or storage rooms. Advanced access control systems also help keep track on the number of people in the building, and the time they spend there. This makes it easier to stick to the recommended number of people per square metre (according to the Covid-19 regulations).

Combining Access Control and Audio

It's not just about reducing the number of touch points with the help of QR codes – access control can also be useful in different ways when combined with other devices. A network intercom, for example, could even play a pre-recorded message when prompted with the visitor scanning the QR code, reminding the visitor to wear a mask before they enter the building.

Another example of how combining access control solutions with audio could be used comes from the Martin Luther King, Jr. Community Hospital in Los Angeles. The facility blocked the card readers at the various entrances and used audio and messaging from intercoms to direct everyone to the main entrance. In this way visitors, employees, and vendors could be screened upon entry, ensuring everyone entering the building was healthy.

Advanced Access Control Today and Tomorrow

While many of these access control solutions – particularly when talking about the healthcare sector – are framed within the context of the pandemic, it's important to note that the solutions can (and should) be used once this health crisis is over. Therefore, it's key for any establishment to adopt it with the intention of it being a long-term solution.

As demonstrated with the German start-up centre, advanced access control such as QR code readers help to improve access management in different applications. Adding the low contact aspect contributes to a more efficient and sustainable approach, with reduced costs for maintaining cards and other physical solutions.

The Author
Paul Baratta,
Healthcare Segment
Development Manager
at Axis Communications

SECURITY

Made in Italy

Ksenia Keeps up the Development and Design Momentum

The Italian company Ksenia Security has managed to increase its brand awareness continuously over recent years. And this effort has not been diminished because of the international Covid crisis. Matthias Erler of GIT SECURITY spoke with Giorgio Finaurini, Marketing and Sales Director, to find out more about this innovative and design-conscious manufacturer of security and building automation products.

GIT SECURITY: Mr. Finaurini, the new year has just started – and we will hopefully soon overcome this pandemic. How did you experience the last year at Ksenia?

Giorgio Finaurini: Starting from last July, we reorganized our internal departments, investing in the growth of the Ksenia team on all levels. I was promoted to Marketing and Sales Director, after having held the position of Technical Director for over 10 years. We all strongly believe that in delicate and particular moments such as the health situation we are experiencing, it is the will to invest that makes the difference, so that crises can be overcome faster. In the second half of the year, we managed to cover the gap created under the lockdown period. It was certainly a year full of challenges, but the uniqueness of our products and solutions allows us to look to the market, and to the future, with optimism.

You are active in many regions of the world – business has probably been affected quite differently from country to country?

Giorgio Finaurini: Yes, it is. We have seen fluctuating moments in various different countries where Ksenia is present. However, we have not experienced any particular slowdowns, with the exception of some countries where there have been more severe restrictions like strong lockdowns. For example, we are now starting with new distributors in New Zealand and Australia, but all the negotiations had been suspended for many months before.

Giorgio Finaurini is Marketing and Sales Director of Ksenia Security

With the Smart Home 'energia' module you can manage and monitor the power consumption of your electrical system

New developments are in the pipeline to extend the range of Ksenia security products

The Ksenia Smart Home solution lets you keep tabs on household infrastructure

Could you tell us a bit about your latest products and developments?

Giorgio Finaurini: We launched many new developments over the past few months, covering three main categories: Security, Smart Home and Integrations. In the security area, we implemented the integration between our 'matrix' (both BUS and radio) and the sensors of the Optex family. It is a strong partnership that we are cultivating with great enthusiasm. In the smart home field, we launched the 'energia' module on the market. It allows you to manage the power used in your electrical system, monitor consumption, send push notifications in case of excessive consumption, and also to disconnect the loads in sequence. In short, it allows you to save energy, and I don't need to underline how important this is. Concerning the integrations, we recently introduced the http gateway called 'IoT porta': a protocol that allows thousands of different IoT devices to communicate with each other. And last but not least, in a few weeks we are going to release a new plugin to enable integration with Milestone.

What is your R&D team currently working on? Could you give us some examples?

Giorgio Finaurini: Our developers are very busy but I want to keep it very confidential, allowing our customers and all those who follow us on social channels to fully enjoy the surprise when we officially release new products and solutions. In any event, our intention in general is to focus on new peripherals in the security area and to improve both the UX and IX, both for the end user and for Ksenia Installers. We also intend to enhance the range of Access Control products.

Sustainability is one of your strategic pillars. How does this affect your work, your production and your business in general?

Giorgio Finaurini: Since 2010, the year of foundation of Ksenia Security, we have focused our strategy on 4 strategic pillars. One of these is indeed eco-sustainability, long before Greta Thunberg began her environmental journey. Our philosophy, and therefore our responsibility, impacts many aspects such as, for example, the preferential use of local suppliers. The goal for 2021 is to shorten the supply chain and to increase local purchases from around 20% to 30%, with substantial savings in terms of CO_2.

You produce all your products in Italy, don't you?

Giorgio Finaurini: Yes, we do and we are very proud of it. Ksenia Security is deeply linked to Italian traditions and history. 'Made in Italy' is for us both an objective and a professional philosophy, and together with the other intrinsic company values represents the backbone of all our activities, internal and external. We have also recently embarked on a new path that embraces the concept of 'Made in Marche' – that is our local region – recalling the theme of eco-sustainability.

Italy is renowned for its design – and so is Ksenia. Could you describe your design philosophy? How important are design issues for your customers?

Giorgio Finaurini: Within Ksenia Security we treat design at 360°. We pay particular attention to details, not only with regard to the form and shape of products through minimalist solutions suitable for any type of architecture, but also in relation to the user interfaces that are simple, intuitive, with clean and linear graphics.

What news can we expect from Ksenia during 2021?

Giorgio Finaurini: To answer this question, I would need about ten pages! We should remember that we designed and implemented about twenty innovative solutions during 2020. For this year, our customers, can expect a lot of news from Ksenia Security, also because we have increased the number of people in the Research & Development department by 30%. The result is that the speed of releasing new products is certainly faster than ever before. Stay tuned!

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**Hong Kong
container port**

SPECIAL FOCUS PORTS

Keep on Shipping

Security for Ports in 2021

Keeping up logistics, shipping on high seas and waterways is a business which needs to be carefully run on big trade ports, rivers or passages, especially on the word trading routs. We could get an impression of what happens, if sea traffic comes to a stand during the past month when Suez Canal was blocked. Logistics in Ports and waterways is a high-security topic, which is why GIT SECURITY collected some of the security technologies on the market that help keeping up the flow of logistics safe and secure.

**8-inch 4 MP 40X DarkFighter
Radar Network Speed Dome**

Everyone should have noticed that logistics in the field of shipping is of huge importance as far as world trade is concerned ever since the 400-meter-long freighter "Ever Given" became wedged and crossed, causing a blockade in the Suez Canal.

It was not until eleven days after, the ship ran aground that the blockage at sea was cleared. A picture that will surely go down in history as the accidental spectacle of 2021. During that time, 422 ships had to wait out the canal that connects the Red Sea with the Mediterranean. The blockade caused delays in world trade and supply chains. Currently, the "Ever Given" lies between the northern and southern parts of the Suez Canal in Great Bitter Lake. So the cause investigation is

still ongoing, as Egypt wants to evaluate the ship's data log and talk to the 25 crew members, among other things.

This shows that passages and ports are to be surveilled and if something goes wrong it can have tremendous effects on world trade with the risk of costs going high up, if as many parties are involved as in logistics. GIT SECURITY looks at a number of surveillance systems that help prevent disruptions, fraud or other criminal activities on large sites like trading ports.

Radar PTZ for Ports

Radar gives organizations the big picture for their perimeter protection operations, and cameras help to identify intruders and collect evidence of security

breaches. When it comes to protecting a site's perimeter boundaries, video and radar are extremely powerful technologies. With radar, organizations can identify people or vehicles that enter a site and follow their movements accurately. As for video, it allows teams to rapidly identify potential security threats, see exactly what is happening, and respond faster to protect people and assets. To help organizations harness the power of multi-dimensional perception in their perimeter-protection solutions, Hikvision has created the all-in-one Radar

Wiley Industry Days
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www.GIT-SECURITY.com

Avigilon offers analytics embedded in Avigilon cameras up to 5K (16 MP) resolution, for example, the H4 Pro Camera range

Zoom areas can be selected freely

No switching between cameras necessary

Intuitive control with Drag&Drop or joystick

Permanent overview of the entire scene

Panomera always records the entire scene

PTZ solution. This combines a Hikvision radar sensor with a latest generation Hikvision PTZ camera and deep learning capabilities to support a step-change in perimeter security. When the built-in radar sensor detects a moving object, an alert is sent to the PTZ camera. This then zooms in and focuses on the object if it is a human or vehicle of interest, with the help of deep learning video analytics. An alert is also sent to the security team automatically, enabling a faster and more effective response in the event of a security breach.

Zooming into Large Spaces

A combination of patented, unique video technology and sophisticated, tailored analytics helps port operators keep cost down and maximise security. According to Dallmeier, their solution "Panomera for Ports" equippes users with a camera that comes with the Panomera effect. Their huge widths, as well as areas with large distances can be displayed with a completely new quality – claiming that the Panomera effect begins where HD and megapixel cameras reach their limits. Even objects that are farther away can be displayed with the same resolution as objects in the foreground of the picture. Panomera solves the well-known problem with PTZ cameras whereby the operator has to choose between overview image and detailed view: It does not matter which section of a surveillance area an operator focuses on at any time, because Panomera always records the entire scene. It is thus possible to later reconstruct any event for use as evidence in court, regardless of where it took place, and to recognise all persons

Vessel Traffic Services

Moving further on to water applications, there is another solution that targets vessel traffic. Terma have delivered and installed numerous radar sensor systems worldwide since the early 1990s – initially tailored for VTS applications in ports

and waterways where the increased vessel traffic in congested areas called for improved monitoring and surveillance – essentially for economic and safety reasons. Later, port authorities have been forced to tighten up surveillance requirements to encompass security. The Scanter product range comprises the Scanter 5000 Solid State Pulse Compression Series radar; the Scanter 4000 combined Sea and Air Surveillance radar, and the latest development, the Scanter 2000 Series Radar, utilizing solid state technology and processing gained from the renowned Scanter 2001 Radar.

Making the Most of Analytics

Another part of a functioning security system is the evaluation of data. Avigilon, for example, has a complete security solution which provides exceptional image quality and easy-to-use video management software to help secure seaports and reduce the number of interruptions across logistics. The self-learning video analytics recognize threats without predefined rules to help detect, verify and act faster. It extends the effectiveness of security personnel by providing effective monitoring and enabling proactive, real-time response from the team. Built from the ground up to manage high-definition video, Avigilon offers analytics embedded in Avigilon cameras up to 5K (16 MP) resolution, for example, the H4 Pro Camera range. Avigilon's advanced video pattern detection technology is able to accurately recognize the movements of people and vehicles while ignoring motion not relevant to a scene.

CCTV System

Cathexis' flagship software suite, CathexisVision provides an IP Video Management Solution with an extensive range of options, tools and functionality to satisfy all security and infrastructure management requirements. CathexisVision offers a unique and comprehensive bouquet of security services for ports

and maritime security. With a significant portion of world trade transported by sea, the importance of surveillance security cannot be underestimated. Ports demand the very latest in CCTV surveillance technology to maintain the highest levels of security. The CathexisVision IP Video Management Software provides the surveillance solutions that meet the high security demands required for these environments. It provides smart video analytics, unlimited scalability, object counting, and it can be integrated with third party systems: For the management of ports, it is important that the system can be integrated with many different technology systems, such as goods scanning systems, weighbridges, and access control. The interactive user interface provides a visual representation of single or multiple sites. Operators can navigate through multiple layers of maps to selected sites, drag-and-drop cameras to selected monitors, control outputs, and move PTZ cameras. Users can also navigate multiple sites throughout the enterprise with the map facility.

Container Code Recognition

Another vital topic in logistics is tracking containers. Mobotix, as an example, has created the container code recognition app which recognizes cargo container codes according to ISO 6346 with an accuracy of over 99% and searches for individual components. The Vaxtor Vax-OCR Container Code Recognition detects container codes even when the container or camera is moving at speeds of up to 20km/h.

THERMAL CAMERAS

The Heat Is On

Thermal Technology For Accurate Perimeter Defense and Fire Detection

Hikvision has launched HeatPro, a new thermal series of cameras designed to provide affordable all-weather deterrent and alerts. It is especially useful in perimeter protection and fire prevention applications.

The HeatPro Series Cameras feature deep-learning thermal video analytics for perimeter protection, and object temperature measurement and fire detection with real-time alarms. Features like accurate human/vehicle classification, visual and auditory alarms for perimeter protection, and speedy temperature exception alarms for fire prevention make them ideal for SMB (small and midsize business) applications.

Perimeter Defense with AI

When securing a perimeter, higher accuracy and a low false alarm rate can help reduce operation costs. The HeatPro Series achieves this by developing powerful video analytics based on Deep Learning algorithms, radically reducing false alarms.

The cameras focus on short-range perimeter protection (0–50 meters), where they deliver target detection and classification. The use of AI means that the cameras can distinguish between a person and a vehicle. This comes in especially useful when the two targets are close together. Traditionally, they can only be recognised as one 'target', but intelligent algorithms mean that they can be detected separately, increasing accuracy.

Thermal cameras are also able to easily locate potential threats in zero visibility conditions, where a conventional camera could not. They do this by detecting the latent radiation emissivity of an object, so not relying on visible light. This means they can operate in all-weather conditions and the darkest night. They also don't emit light, which means their presence is not obvious, making them useful in scenarios where they need to be hidden.

The HeatPro Series is also designed to be efficiently and quickly installed, with a simple, three-step deployment, bringing setup time down to 30 seconds. Traditionally thermal cameras require specialist engineers to configure and double check, takes both extra time and energy. HeatPro cameras have been designed with installation time and effort in mind – they are simpler to install and so installers can spend more time correctly configuring for optimum operations, and the lowest false alarm rate possible.

Temperature Measurement for Fire Prevention

The HeatPro Series is also equipped with the ability to measure temperature. This process is very useful in a scenario where overheating could lead to fires. The camera can provide non-contact temperature measurement for fast and visible detection. This means that action can be taken earlier, potentially preventing a fire from the very beginning. The camera can trigger a fire alarm faster than a smoke sensor. The temperature measurement function can also be used to help check any potential overheating issue and troubleshoot problems.

The series contains a number of different models and options, with bullet and turret forms, and Bi-spectrum or single lenses. The cameras can be built into a number of solutions, for instance seamlessly working with NVRs, AX PRO alarm systems, and even Hik-Connect for real-time mobile alerts by phone. They can be used in various scenarios – not least: residential buildings, offices, construction sites, car parks, retail outlets and warehouses.

"Dedicated to bringing professional protection solutions to the mass market, these cameras provide perimeter protection with unparalleled accuracy, and fire detection with superlative sensitivity", says Stefan Li, Director of Thermal Products at Hikvision. "Hikvision HeatPro Series provides professional protection made simple."

CONTACT

Hikvision Europe
Hoofddorp, The Netherlands
Tel.: +31 23 554 277 0
marketing.eu@hikvision.com
www.hikvision.com

Intelligent Key-Based Access Control Integration

Cliq wireless locking from Assa Abloy Opening Solutions now works seamlessly within Security Center from Genetec. This new integration helps Security Center users to broaden their access control capability, administer locking more efficiently, and better protect all kinds of premises from increasingly sophisticated and diverse threats. Any organization using Genetec Security Center 5.7 can now deploy Cliq key-operated wireless locks and padlocks at their premises. The integration via Cliq Web Manager software extends the access control ability of Security Center, enabling programming of the intelligent, battery-powered keys with fine-grained access rules from a single, familiar interface. As a result, organizations can extend access control and solve their lost key problem. Staff and other site users can keep their original credentials, while administrators may assign rules for cardholders granting additional access via Cliq devices. Security managers can customize access schedules on site or remotely. The key system's management capability mitigates against security threats from lost keys. The battery-powered keys are reprogrammable, and can be disabled by the system as soon as they go missing. Cliq saves the expense of physically rekeying locks, too, since 'rekeying' is done electronically: a Security Center system administrator can quickly amend an existing key's access permissions or issue a new programmable Cliq key. The cylinder range extends beyond door locks to many other applications, with wireless cylinders for cabinets, cupboards, lifts, machines and gates, plus hardened steel padlocks for outdoor use. Installation of these programmable locking cylinders and padlocks is wireless and simple. Management within Security Center is seamless.

www.assaabloyopeningsolutions.eu

Cooperation with Kimi Räikkönen

Finnish digital locking innovator, iLoq, has announced that it is continuing its partnership with the former Formula 1 world champion, Kimi Räikkönen for the 2021 season. Driving again for the Alfa Romeo Racing Orlen team, Kimi put on his iLoq-branded helmet after the winter break when pre-season testing began in Bahrain in March. iLoq has partnered with Kimi since 2019. Over the last two years, iLoq has continued its significant growth path and has expanded its business into many new countries and markets. "Kimi's time and commitment to iLoq has been instrumental in helping us boost our visibility and our reseller and customer base. He has been a good driver of the brand building of the company and has enhanced our reputation as a leader in the digital locking industry. We will continue to leverage this success to achieve further growth outside Europe, fulfill our plans for expansion in the East, West and Middle East and take the benefits of our solutions to new customers, partners and stakeholders on a global scale," explains Joni Lampinen, Chief Marketing Officer, iLoq.

www.iloq.com

Updated Video Management Software

Wavestore is introducing an updated version of its open-platform and highly secure Linux-based Video Management Software (VMS). Wavestore v6.26 enables bounding boxes and polygons to be rendered directly in the Waveview client. This can greatly improve situational awareness by instantly drawing operators' attention to objects of interest. In this release, ONVIF analytics metadata from Bosch cameras is supported. To simplify the system set up, the ability has been added to enroll multiple cameras simply by using a 'from – to' address range. Multiple ranges can be added in this manner, and for can even include an address range which sits outside of the subnets of the server network interfaces. Many other new capabilities have been added, such as the highlighting of objects of interest along with the storing of object type and position metadata, in future using this data to enable powerful event and graphical searching capabilities.

www.wavestore.com
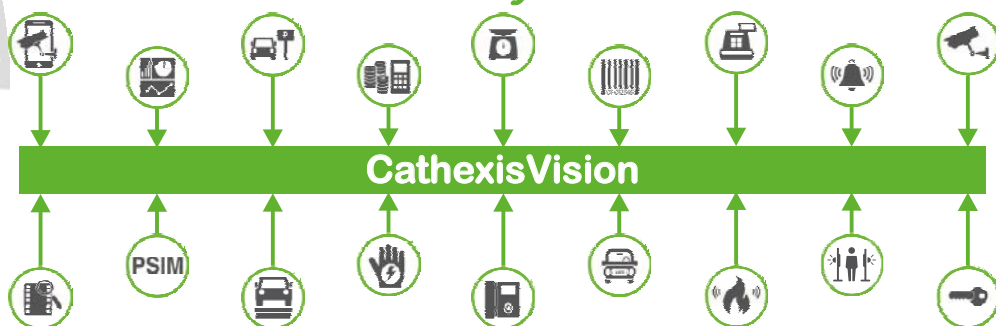
Oliver Nachtigal, Business
Development Manager
Security + Surveillance at Eizo

Roy Band, Community
Manager Middle Europe
Region, Milestone Systems

VIDEO

Deeply Integrated
Cooperation between Eizo and Milestone

As part of a technical cooperation, Eizo and Milestone have integrated a plug-in to use Duravision IP decoding solutions from Eizo in the Milestone XProtect video management software (VMS). GIT SECURITY spoke about this with Oliver Nachtigal, Business Development Manager Security + Surveillance at Eizo and Roy Band, Community Manager Middle Europe Region, Milestone Systems.

GIT SECURITY: Mr. Nachtigal, Eizo has been working with Milestone recently, and that means that your monitors are now compatible with the video management software from Milestone?

Oliver Nachtigal: Yes, correct. Both our FDF2711W-IP decoding monitor and our DX0211-IP decoding box are now integrated into the Milestone VMS thanks to a newly-developed Eizo Video Wall Plugin.

What new features have become available for your customers as a result of this?

Oliver Nachtigal: The integration provides a very convenient way to directly operate and remotely control our IP decoding solutions via the client of the Milestone VMS. They are now very easy to manage,

particularly in large installations where lots of monitors are in use, for example at airports or security agency environments.

Are there any particular new markets and business sectors that you want to address through this cooperation with Milestone?

Oliver Nachtigal: We want to become more active, particularly in the transport and energy sectors as well as in government projects. Especially in these markets solutions are required that fulfill very high security standards, are very reliable and durable. Further, they should also be easy to operate.

Could you remind us of the general characteristics of Eizo decoding monitors?

Oliver Nachtigal: The specialty of our IP decoding solutions is the direct connection of IP cameras without a computer or other hardware in between. On the one hand this makes the installation drastically simpler, and on the other hand you save a great deal of maintenance and administration effort. Potential sources of defects and security risks are thereby also removed. In addition, they are intended for 24/7 usage just like almost all the other monitors in our Duravision product line, which is particularly important for critical infrastructure.

In principle, the monitors – at least for smaller applications – would work without a VMS?

Oliver Nachtigal: Yes, that is right. The required decoding function is already

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www.GIT-SECURITY.com

integrated into the monitor or in the box. So there is no further PC hardware needed to display video streams. You can therefore use them as a PC-less standalone solution, but of course also in larger projects in conjunction with video management software such as Milestone XProtect. The subject of integration is becoming more important in today's projects and as our products can be easily integrated via an API into other systems, we see this as an ideal complement to video management systems.

Data protection is also an important aspect, particularly for video surveillance solutions – speaking of video data storage?

Oliver Nachtigal: Many projects require that no video data may be stored or exported. Our systems fundamentally have no export function, neither for streams nor for individual images. We can therefore fulfill such data protection requirements very easily with our solutions.

Could you give us an example of a security application – in conjunction with the Milestone VMS?

Oliver Nachtigal: Let us stick with the airport example. There is a central security point from where everything must be monitored and coordinated. In such installations, there are also many remote monitors used, for example on the passenger loading ramps but also in so-called 'anxious areas' that passengers

© Eizo

Both the FDF2711W-IP Decoding-Monitor and the DX0211-IP Decoding-Box from Eizo are now integrated in the Milestone VMS thanks to a newly-developed Eizo Video Wall Plugin

would not normally see, such as access tunnels. With the help of these monitors that are placed at the entrance to such areas, anyone can see before they enter if there is anyone lurking around and may be a threat. Client PCs that can display the streams from the cameras would normally be needed here. When using our decoding solutions however, control of the display is possible centrally from the Milestone VMS Smart Client.

Mr. Band, let us talk a little bit about your view as Milestone – how interesting is this partnership for you, especially with Eizo?

Roy Band: It is an interesting partnership for us because together with Eizo we can offer an even more competitive solution for our end-users and system integrators. Until now we could only achieve that with our advanced products. Add to that the energy costs that our customers can save because less hardware is required.

For which projects and in which markets do you see the most potential through this cooperation?

Roy Band: The solution is very versatile and can therefore be deployed in many environments. We see perhaps the most potential in organizations that want to set up a central security point that needs a monitor wall. But our solution is interesting generally for organizations that have to manage information centrally via monitors – as in the retail and transport industries.

Plugin to Manage IP-Decoding Solutions via XProtect VMS

Eizo's Duravision FDF2711W-IP (27-inch monitor with 1920 x 1080 resolution) and Duravision DX0211-IP (decoding box) decoding solutions allow you to connect multiple IP cameras, and offer high-performance decoding technology, custom layouts and other display options for flexible video viewing. IP decoding solutions require neither a computer nor any additional hardware to operate, which eliminates various sources of error and security risks associated with conventional configurations. Milestone XProtect is a video management software that combines various technologies for video surveillance in a highly-secure system with optimal functionality. Eizo and Milestone have developed a plug-in to flexibly control and configure video walls remotely using the video management software.

The plug-in allows users to control and monitor Eizo's IP decoding solutions directly via Milestone XProtect, including camera registration, remote device status checks, video layout adjustment and display customizations. This streamlines the installation process and user control by allowing operations to be carried out directly via the VMS. Using Milestone XProtect, operators simply drag and drop the video feed from any registered camera to the desired position and the layout is reflected on the target monitor, even if it is located remotely. Display settings and options can also be easily configured through the VMS without needing to access the monitor's UI separately. Eizo's IP decoding solutions also support the unique functionalities of Milestone XProtect, such as event monitoring and alarms. The IP monitor or box receives a command from the VMS when a specified event occurs, such as motion detection via IP camera, and instructs the device to take a designated action, such as automatically changing the screen layout. This adds a level of enhanced awareness to operators, drawing attention to important events in real time.

CONTACT

Eizo Europe GmbH
Moenchengladbach, Germany
Tel.: +49 2161 82100
info@eizo.de · www.eizo.de

Network Connections in the City

Intelligent Interface Boxes for Smart City Applications

Synaps acts as an interface and provides a robust home for network interface technology with remote infrastructure

Synaps cabinets are of great benefit for wide-ranging network technology installations

More than half of the world's population lives in cities. These occupy 2% of the earth's surface and produce 80% of global greenhouse gas emissions. The resulting sociopolitical and ecological problems call for corresponding actions to make people's coexistence sustainable and efficient, thereby improving the overall quality of life. Intelligent networking plays a central role here, especially in the field of information and communication technologies when extracting and transmitting data flows.

The Synaps outdoor box shows its new look: Industrial Design, quality certified and space for multiple components

Customized Configuration: 8 port Slat Ethernet switch (IEEE 802.3bt), lightning protector, extreme cold component, converter 12V PoE, assembled and tested exactly as specified

In an urban ecosystem, a variety of network applications with different characteristics are in use, such as traffic surveillance cameras, traffic light systems, license plate recognition, digital scoreboards, CO_2 emission and noise sensors, or video and WLAN-controlled outdoor surveillance. They all require interfaces to connect the devices that are used and transfer their communication and data, to bundle sensor signals, to monitor and report the system status, and much more.

Inhouse Technology Development

How can all these different interfaces be networked in a simple way? The industrial outdoor interface boxes of the Synaps range offer a complete solution with an integrated switch that has been developed by Slat especially to meet the safety requirements of PoE devices in outdoor applications (cameras, antennas, free WLAN, traffic management, etc.). Up to eight objects with a total power from 50 W to 180 W can be connected to one box. The switch acts as a network interface. Recently, the Synaps PoE8 (180 W) box with a managed Layer 2 switch, eight PoE/PoE+/HiPoE ports (IEEE 802.3bt) and two SFP ports for connection to the fiber network was launched onto the market. Now devices such as PTZ cameras can be easily powered.

Electrical protection in the case of micro-interruption, lightning strike or network-related changes (e.g. use of renewable energies) is supplied by the long-life lithium iron phosphate backup which is part of the Slat patented battery management system. In addition to the standard products, Slat now provides customized versions. The boxes are configured ex works according to the specific project requirements, equipped with pre-tested components (switch, power supply and backup, PoE injector, media converter, etc.) and the overall concept is CE-marked.

Well Thought Through to Facilitate the Work of Installers

The advantages for the installer are obvious because only one equipment order is required and no time is lost searching for components. There is also no need for time-consuming compatibility tests and box assembly. Maintenance-friendly details make the technician's work much easier with pre-drilled holes, mounting kit and the removable technology block, without having to take off the whole box or connected objects from the installation site. Remote monitoring helps time saving and eliminates unnecessary on-site maintenance trips, which can quickly add up in distance. By means of an integrated web server or SNMP, status messages can be retrieved from any location: current consumption, battery charge level, number of power failures, etc. An additional integrated DAM function (Device Activity Monitoring) controls the connected objects and performs an automatic restart if necessary (e.g. of a frozen camera).

Author
Frauke Petzold

CONTACT

Slat
Lyon, France
+33 478 66 63 60
www.slat.com · comm@slat.fr

GLOVES

Strong Duo Against Cuts

Protective Sleeves and Gloves by Ejendals

Glove Tegera 8815 Infinity and Tegera Arm Cut Protection

In everyday work and the working environment, cuts are among the most common accidents at work. About 30 percent of all "non-fatal injuries" are external injuries such as hand-cut wounds.

Ejendals, as a manufacturer of innovative hand and foot protection solutions, offers a strong duo for all applications and areas where innovative cut protection is required, successfully repelling dangers: Tegera 8815 Infinity, is a "problem solver glove" with numerous security attributes.

Certified to Class II Cutting Resistance/Cut F, it is characterized by a particularly robust and durable workmanship, based on a fabric mix of the cut-resistant CRF Omni Technology fiber, nylon and spandex. The glove has excellent grip. Combining the quality glove with the new Tegera sleeves, the entire arm is perfectly protected. The comfortable and light cut protective sleeves are based on the Tegera CRF technology: Cut-resistant high-tech fiber on the one hand prevent injuries caused by sharp-edged

objects, metals, glass or other mechanical influences; on the other hand, the particularly comfortable and light fabric convinces especially during physically demanding activities, since it has a cooling effect.

These criteria ensure a particularly high wearing comfort and thus the consistent occupational safety: "In the heat of the battle" the prescribed occupational safety is not taken off, because the wearer feels uncomfortable or restricted. Maximum freedom of movement and flexibility characterizes the cut protection duo – without gaps. The critical transition point from protective sleeves to working glove is secured by the seamless thumb loop on the sleeve. This prevents slipping or free areas of the skin – and this in any working position. Sleeves and gloves as a combination are like a second

skin that guarantees maximum comfort. "Accident prevention is our top premise, with these two products and the combination we make a further contribution to employee health," explains Werner Schwarzberger, Ejendals, Director Ejendals Germany, Austria and Switzerland.

CONTACT

Ejendals
Leksand, Schweden
Tel.: +49 800 72 44 955
info@ejendals.com
www.ejendals.com

Media requests:
Regina Iglauer-Sander
info@coaching-communication.org

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Thermal Solution for Zero-Contact Temperature Detection

Mobotix has developed the M16 EST Thermal Camera as a special thermal solution for zero-contact detection of body surface temperature fluctuations (EST = Elevated Surface Temperature). Non-contact temperature detection is very useful for healthcare professionals to screen and potentially identify (COVID-19) infected people. The camera complies with the specifications of the U.S. Food and Drug Administration (FDA) and satisfies the requirements of the COVID-19 Emergency Use Authorization (EUA) and the FDA's enforcement policy for tele-thermographic systems. Users can include healthcare facilities, schools, government institutions and retail environments. A black body radiator is used to create a reference temperature for the camera and the M16 EST thermal camera measures the difference between this and the temperature of the hottest point of the uncovered face of a person. Usually, this is the inner canthus (tear duct) of the eye.   **www.mobotix.com**

Wireless Ethernet Solution

ComNet, a US-based manufacturer of fiber optic transmission and networking equipment has introduced its Generation 4 line of Netwave wireless products that offer greater performance and increased stability. The NW1 Gen 4 can exceed 500Mbps throughput under ideal conditions, accommodates 10/100/1000Mbps Ethernet, and now also has IEEE802.3at PoE Compliant PD on port 1 and an IEEE802.3af power source (PSE) available on port 2. Distance is specified for applications of up to 2 miles. The new hardware features a high-performance chipset with a quad-core CPU that is designed to meet the high throughput demands that surveillance applications require. The NW1 is available in kit form, the NWK1, and consists of two MAC Address-locked radios and mounting hardware. Each NW1 unit is designed for extreme conditions and has an extended operating temperature range as well as being IP67 rated for resistance to water and dust intrusion.   **www.comnet.net**

Company Index

Imprint

WILEY

SECURITY MANAGEMENT

ALARM MANAGEMENT

VIDEO TECHNOLOGY

FACILITY SECURITY

Cylinder Housing for Fire-Proof Doors

The Uhlmann & Zacher locking cylinder convinces customers worldwide with its uncomplicated implementation and usability. The modular design of the cylinder offers additional flexibility. If, for example, a new door is installed due to renovation, then only the centerpiece needs to be replaced, as the cylinder length is different. With the new cylinder housing for fire and smoke protection doors, Uhlmann & Zacher offers a special solution for the use of electronic knob cylinders in doors up to the fire resistance class 'fireproof' (T90). In combination with the appropriate knob module and the mechanical knob, the respective certified fire protection product is assembled by simply fitting together the components. This solution is also available in combination with the knob module for outdoors.

www.uundz.de

Effective Traffic Management

With the Hikvision Traffic Visualization Dashboard, traffic managers can view historical and real-time traffic information, helping them to make the best decisions and improve outcomes for road users and residents. Many cities are investing in roadside infrastructure such as cameras and sensors to monitor traffic conditions at key junctions in an attempt to keep traffic flowing and to maximize road safety. However, with no way to convert vast quantities of traffic data into actionable insights, this can rarely support effective strategic and real-time traffic responses. The Hikvision Traffic Visualization Dashboard integrates data from roadside cameras and sensors and displays it to traffic management teams via an immersive, map-based interface.

www.hikvision.com

1. **Right now: I am** socially distancing and hoping for a swift end of the pandemic.

2. **My biggest motivation is** solving seemingly impossible challenges.

3. **At 7 o'clock in the morning I** am exercising.

4. **Guaranteed to make me laugh is** a good joke.

5. **Three characters I would like to have dinner with (dead or alive, fictional or non-fictional) are** Margaret Thatcher, Michael Jordan and André Kostolany.

6. **The biggest challenge for my industry at the moment** is helping our customers to accelerate their business transformation and to become an intelligent enterprise.

7. **I would like to have the superhero superpower of** travelling through time.

8. **Three things that I am most grateful for in life are** health, family and living in peace.

9. **The best decision in my career so far is:** Staying positive and open-minded.

10. **The natural talent I would like to be gifted with is** a photographic memory.

11. **The language I would most like to speak is** Spanish.

12. **I had the opportunity to have an audience** with former Pope John Paul II in the Vatican.

Name: Martin Merz

Position, Company: Senior Vice President and Head of Government Security & Secrecy, SAP SE

Date of Birth: 08.06.1980

Hometown: Walldorf, Germany

Favorite homemade dish: Roast Potatoes

Off the Record

Get to Know Inspirational Characters of the Security Industry in GIT SECURITY's Series

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HeatPro

Hikvision HeatPro Series Thermal Cameras
Professional Protection Made Simple

See the **difference**?

Better target classification accuracy *focusing on humans & vehicles*

Faster target detection *even in challenging conditions*

3 steps — **Easier deployment** *with three-step configuration*

More product combination options *for varied needs*

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