MAGAZINE FOR SAFETY AND SECURITY

GIT SECURITY

EMEA

SimonsVoss

Security for Stadiums

Fire Protection

Casino Security

Cyber Security

Safety Meets Security

COVER: SimonsVoss
DIGITAL LOCK TECHNOLOGY

WILEY

lares 4.0

Certified EN 50131- Grade 3

Ksenia Pro — Installer APP

lares 4.0 — User APP

Automations control

Light management

Irrigation

Heating air conditioning

Burglary System

CCTV integration

Remote audio verification

Access control

Complete Integration

Control4

CRESTRON

Google Home

amazon alexa

lares 4.0 - 16:
16 IN + 16 OUT - 6 partitions - native with Ethernet interface.
Dedicated Installer APP (Ksenia Pro) and User APP (lares 4.0).

lares 4.0 - 40:
40 IN + 40 OUT - 12 partitions - native with Ethernet interface.
Dedicated Installer APP (Ksenia Pro) and User APP (lares 4.0).

lares 4.0 - 40 wls:
40 IN + 40 OUT - 12 partitions - on board 868 MHz bi-directional wireless interface (DPMS - Dynamic Power Management System) and 2 KS-BUS interfaces.
Dedicated Installer APP (Ksenia Pro) and User APP (lares 4.0).

lares 4.0 - 140 wls:
140 IN +140 OUT - 20 partitions - on board 868 MHz bi-directional wireless interface (DPMS - Dynamic Power Management System) and 2 KS-BUS interfaces.
Dedicated Installer APP (Ksenia Pro) and User APP (lares 4.0).

lares 4.0 - 644+ wls (and even more for specific project):
644 IN + 644 OUT - 30 partizioni - on board 868 MHz bi-directional wireless interface (DPMS - Dynamic Power Management System) and 2 KS-BUS interfaces.
Dedicated Installer APP (Ksenia Pro) and User APP (lares 4.0).

lares 4.0 wls 96:
Up to 32 radio peripherals and up to 96 wireless zones. Expabdable through KS-BUS: up to 3 user interfaces (ergo keypads and volo or volo-in proximity readers), 1 siren on BUS (imago or radius), 1 domus to manage the chronothermostat functions.
Dedicated Installer APP (Ksenia Pro) and User APP (lares 4.0).

Working together

As a regular reader of GIT SECURITY you might have noticed, that we have covered cybersecurity aspects for our industry in a series of articles. Cybersecurity is a critical topic for the future of our industry, and it is good to see that a lot of vendors have reacted and now take the actions that are necessary to improve their products. A more collective approach is now part of an initiative in the UK, that could be a model for other countries and regions, too.

As you can see on page 26, the UK government has launched an initiative to make "Secure by default and design" a key element for technological innovation. It has announced a massive investment in making the UK a world leader in eliminating cyber threats to businesses and consumers by developing more resilient IT hardware. As part of the initiative, the Secure by Default standard was introduced by UK Surveillance Camera Commissioner Tony Porter at IFSEC in London, as part of the first ever National Surveillance Camera day. The introduction of 'Secure by Default' standards aims to provide a guarantee for users that network video security products are as secure as possible in their default settings out of the box.

From my point of view this a great initiative, a good start. We are looking forward to seeing further standards to follow over the next couple of years and support the development of increasing standards and further security levels for all users of security equipment.

Initiatives across company borders seem to be a trend. On page 14 we present the Open Security & Safety Alliance that was launched a year ago. The alliance has the mission to gather market players to collaborate on an open industry ecosystem. Over the past 12 months, experts from around the globe worked through OSSA to build an ecosystem and collectively create a framework that allows the trapped – and nowadays often unused – data to be unleashed. This vision is anchored by the use of a common market approach including agreements on high levels of trust and the right levels of performance.

Enjoy reading this issue!

Heiko Baumgartner
For Wiley's Safety and Security team

● MANAGEMENT

● SECURITY

● SECTIONS

● SECURITY

www.GIT-SECURITY.com
REGISTER NOW for our free NEWSLETTER

www.GIT-SECURITY.com

SAFETY

FIRE PROTECTION

Bosch to Acquire Gesellschaft für Regelungstechnik und Energieeinsparung

Bosch Building Technologies plans to acquire GFR – Gesellschaft für Regelungstechnik und Energieeinsparung mbH – headquartered in Verl, Germany. Agreements were signed on July 17, 2019 by Bosch and GFR's current owner, the Wiedemann Group based in Sarstedt, Germany. GFR offers complete building automation solutions as well as related services and a comprehensive hardware and software product portfolio. The company's solutions are the basis for sustainable building operation and are used among others in shopping malls, hospitals and entertainment complexes. For example, at the famous Elbphilharmonie concert hall, GFR solutions form the control center for technical building equipment, are connected to and monitor different systems and control individual devices. GFR employs around 260 people at nine locations in Germany. The acquisition is subject to approval by the relevant antitrust authorities and it has been agreed that the purchase price will not be disclosed.

www.boschbuildingtechnologies.com

New Mobotix Representation

Mobotix has a new distribution partner in Australia in the form of Innovare Security Distribution, considerably expanding its distribution network in the process. Innovare is a subsidiary of ATF Services, an Australian security product retailer with over 60 offices in Australia and New Zealand. Mark Timmins, National Sales Manager of Innovare, said, "We are committed to our suppliers and look forward to expanding their brand presence while maintaining long-term relationships with new and existing customers". Evan Arvanitidis, Regional Sales Manager ANZ at Mobotix , welcomes Innovare as Mobotix 's new distribution channel: "Innovare's committed business plan fits perfectly with our global sales strategy, in which we focus on providing customised solutions for our customers that we develop and market together with our cooperation partners. Mobotix is convinced that it can achieve sustainable market growth together with Innovare."

www.mobotix.com

New Geze Sales Headquarters in Shanghai

On 6 June 2019, Geze China opened its new, centrally located sales headquarters in Shanghai. The new site in Xujiahui provides the China team an open and communicative environment in which to further develop the Chinese market, and advise and support customers throughout the entire lifecycle of buildings. The central, conveniently situated building, which opened only two years ago, is part of a giant technology and research park - an inspirational environment for innovative products and services. The new office is Geze China's headquarters for sales and marketing and offers plenty of space for management, sales, pre-sales, marketing, product management, customer support, sales activities and technical and administrative support. Partners and friends of our company can discover the entire Geze portfolio with the latest trends at the new premises.

www.geze.de

Pelco Announces New President

After its acquisition by private equity firm Transom Capital Group in May 2019, Pelco has announced that CEO Jean-Marc Theolier will leave the company with immediate effect. As part of this change, Brian McClain, COO, will take the role of President, leading the recently independent company while the search for a new CEO is finalized. McClain stated, "Jean-Marc served as a critical member of the Pelco team in the recent sale and resulting ownership transition. I want to thank him for his passion and service to Pelco and wish him the very best for the future." Transom Capital Group has ambitious plans for Pelco, including leveraging a bold vision to meet the growing demand for solutions-focused products and services across specific market segments. Also announced was the promotion of existing Pelco employees Brooke Christopher to Head of Marketing Communications and Branding, and Stuart Rawling to Vice President of Marketing Strategy. **www.pelco.com**

The Advancis Technology Partner Community Is Now Online

As the manufacturer of the open integration platform WinGuard, Advancis works closely with an ever growing community of technology partners. Currently, there are already over 400 integrations to vendors worldwide. Regular communication with the technical personnel of our partners ensures that the driver interfaces are always up-to-date. In particular the constant information exchange between Advancis and the Premium Technology Partners as well as the close collaboration between the development and technical departments guarantee a deep integration of the partners' systems in WinGuard. Premium Technology Partners can present their brand and products on their own partner page. A photo gallery as well as the exclusive partner brochure describing in detail the advantages of the integrated solution of their products' integration with WinGuard provides the opportunity to present the partner company.

www.advancis.net

Grundig in Russia

In March this year, the German company Grundig Security took part in the Securika Moscow international exhibition and its MIPS Forum. Visitors to the company's booth were impressed by it's recording and playback devices with embedded video analytics, cameras and hi-res video monitors designed for 24/7 use. Alexander Denezhko, Head of Abetechs GmbH Rus JSC (Grundig Security) said, "For Grundig Russia's team, 2019 Securika Moscow was an official large-scale entry into the Russian and CIS markets for security system projects. Our devices sparked a great deal of interest and we managed to line up partnership agreements with clients and end users. Visitors were so enthusiastic that they even took some of our devices from the stand right there and then for testing in large-scale projects! In my view, Grundig's entry into the Russian and CIS markets comes at a most auspicious time. I think the Securika Moscow exhibition got our team off to a great start, and that gives us great potential for development for the next 12 months." **www.grundig-security.com**

Inter Airport Europe 2019: Online Vote for the Excellence Awards Now Open

The International Exhibition for Airport Equipment, Technology, Design and Services will be held from 8–11 October 2019 at the Munich Trade Fair Centre in Germany. The show once again presents the Excellence Awards in the four exhibition categories of interTermianl, interRamp, interData and interDesign. In addition, a special award will be presented in the category 'interFUTURE', in order to acknowledge the recent industry trend of the airport of the future. The winners of the Awards are selected via an online vote which is now open. The entire airport industry is invited to participate in the vote on the official inter airport Europe website http://www.interairporteurope.com. Airport professionals have a maximum of five votes – for one winner in each category, and voting closes on 6th September 2019. The winning companies in each of the five categories will be presented with an award at the inter airport Europe Opening and Awards Ceremony on 8 October 2019, at 11am.

www.interairporteurope.com.

Milestone VM SIRA and GDPR Certified

Milestone Systems recently received the Security Equipment Approval from the Security Industry Regulatory Agency (SIRA) of Dubai. SIRA is a government body regulating the security industry in the Emirate of Dubai, providing protection to the community using preventive security systems and precautionary measures. Milestone XProtect Corporate 2019 R2 is also the first major video management software product to obtain the highly sought-after EuroPriSe (European Privacy Seal) GDPR-ready certification. With this certification from the independent EuroPriSe institute, end-users can be confident that they have the right foundation to build a GDPR-compliant video surveillance installation.

www.milestonesys.com

Grundig Edition 70 Extended Warranty

For more than 70 years, the brand name Grundig has been synonymous with reliable products. Now, Abetechs is extending the warranty period – which is usually 36 months - of all fixed Grundig 'Professional' and 'Premium' series' cameras (except for PTZ cameras) to 70 months. The 'Edition 70' campaign applies to all orders placed until March 31, 2020. The Edition 70 camera series contains a variety of models ranging from fixed dome cameras for indoor and outdoor use to handy fisheye cameras with an IR function, as well as robust bullet cameras. All of them have a built-in SD card slot and image analysis functionality.

www.grundig-security.com

Comelit Group Integrates With Salto KS

Comelit Group and Salto Systems have announced an integration to enable a door entry and access control solution, operated via simple-to-use mobile app technology. The Italian security specialist Comelit has invested in the integration with Salto's KS cloud-based access control system. The integrated app, compatible with all smart phone and tablet technology and tailored to provide push notifications, offers audio and visual functionality for building entrances and apartment doors. This provides remote, real-time access whilst not on site for deliveries and visitors, alongside communicating with concierge services. The integration is now complete, offering each resident the ability to manage and control the Comelit door entry and Salto access control from the Salto KS App. The app is now being specified into over 4,000 new apartments being developed.

www.comelitgroup.com

Siqura Cameras Secure Kuwait Hyatt Regency Hotel Al Kout Mall

Siqura cameras and equipment from other TKH Group sister companies is currently being implemented by cooperation partner Delite Engineering Center as a complete integrated security solution in the Kuwait Hyatt Regency hotel situated in the Al Kout Mall, the second-largest shopping mall in Kuwait. The order was for a video surveillance and access control system as a complete solution. The video surveillance part of this project consists of around 350 Siqura cameras of different types along with the VDG Sense video management software, operated from an internal control room in the hotel. The i-Protect access control part is for around 120 doors with swipe cards. In addition, there are some 300 monitored doors. The project is scheduled to be completed by mid-October 2019. Through TKH Group, Siqura is able to offer a truly integrated system as a single supplier for cctv, access control, alarm systems, video management software and security management.

www.siqura.com

Advancis UK Office

Advancis has opened its UK office in Milton Keynes, 50 miles north of London. The office is managed by Andrew Pasqualin, Sales Manager for the UK and Ireland, and is now fully equipped for demonstrations and business meetings based around the vendor-neutral integration platform WinGuard. Milton Keynes was selected as a strategic location for the new office because of its easy access from several regional airports including Heathrow, Luton and Birmingham as well as excellent road links from M1 junction 14 and rail links from London and the north. With only 5 minutes' walk to Milton Keynes railway station, as well as being situated in the heart of the town and its well-equipped facilities, this is an ideal place to work and visit.

www.advancis.net

Suprema Appoints New Managing Director for Suprema Europe

Suprema has appointed Baudoin Genouville as Managing Director of Suprema Systems GmbH. Responsible for the company's pan-European (excluding UK and Ireland) and North African operations, Genouville will be based in both German and French offices, where he will lead local sales and technical support teams as well as playing key roles in marketing and public relations across Europe. Since joining Suprema in 2013, Genouville has been involved in technical alliances with major security manufacturers, and also played a strategic role in Suprema's recent global rollout and growth in the enterprise market. Earlier this year, Suprema also appointed Jamie McMillen as Managing Director of Suprema Systems in the UK, which covers the company's sales and marketing operations in the United Kingdom and Ireland markets. Suprema plans to further expand its UK and Pan-European footprints to improve localized sales, marketing and technical support services. **www.supremainc.com**

Additional Mobotix Partner in Singapore

Mobotix has expanded its technology partnerships to include Oneberry Technologies in Singapore. The company was founded in 2003 as a specialized technology and service provider for security and surveillance solutions. Its latest innovation is the Roboguard, a security robot based on fuel cell technology that can be customized. Oneberry Technologies is committed to partnering with companies that are active in complementary technologies to deliver innovation to vertical markets through joint projects or innovations. Thomas Lausten, CEO of Mobotix, says, "Oneberry Technologies is a prime company in the Asian market for robot technology based on fuel cells. The new market opportunities – in terms of facility management, for example – are promising." **www.mobotix.com**

Mitie Names Nedap as a Strategic Partner for Access Control

Mitie Fire & Security Systems has announced Nedap Security Management as a partner of choice for access control in the UK. This new strategic partnership builds on a close relationship developed between the two organisations while working for clients in a range of sectors, from large automotive manufacturing to high street retail outlets. Chris Watts, Director of Mitie Fire & Security Systems says: "Mitie's relationship with Nedap has gone from strength to strength over the past couple of years with some important new contracts wins. Nedap has a collaborative partnering approach and works proactively with our sales and operational teams to ensure we have the knowledge and expertise to support our customers and prospects." Mitie is one of the UK's foremost integrators of technology-based security solutions and end-to-end managed services. It provides highly complex security solutions for national and multinational organisations and appreciates the depth of industry insight and technical support offered by Nedap. Not to mention the flexibility, scalability and wide-ranging functionality of Nedap's AEOS access control system. Nedap also stands apart from many other access control suppliers with its people-first approach. It believes that, fundamentally, security isn't just about technology – it's about people and how they live their daily lives. Nedap aims for its access control to free people's minds from security and help them live life to its full potential. It calls this 'Security for life'. **www.nedapsecurity.com**

Panasonic: Establishment of New Company to Operate Security Systems Business

Panasonic announced that it will establish a new company to operate its security systems business in Japan and overseas, and that it has reached an agreement for strategic co-investment with Polaris Capital Group. The new company will be able to utilize Polaris' knowledge and experience cultivated from numerous investments into manufacturers and other large-scale enterprises. It will be formed into an independent entity from the Connected Solutions Company's Security Systems Business Division and the industrial & medical vision compact camera R&D department of its Innovation Center.

Gerard Fígols

The Public Safety sales and development functions of Panasonic System Solutions Company of North America (PSSNA), and the security camera manufacturing factory in China — Panasonic System Networks Suzhou (PSNS) — will become subsidiaries of the new company. The new company's name will be "Panasonic i-PRO Sensing Solutions Co., Ltd." and it is planned to start operation on October 1, 2019, assuming approval from relevant government agencies. It will contain three operations businesses: Surveillance system business (intelligent surveillance), Industry-specific business (public solutions), Module business (industrial & medical vision). A special purpose company will be established as the successor, in which Polaris Private Equity Fund IV and Panasonic will hold 80% and 20% of the shares respectively. Gerard Fígols, European Category Owner Security at the Panasonic Business Europe, explains to GIT SECURITY: 'The security market is growing and going through some important changes. The trend of security business needs to go towards IoT. Security cameras, for example, collect so much data, but companies are still not able to govern the data properly. It needs to be well-managed and the security sector is not yet ready to deliver this potential. Being able to create these changes, Polaris' investment was necessary to speed up actions for Panasonic. Yet, it is very important to us that our customers as well as business and channel partners know that nothing will change for Europe. They will have the same contacts, brand, product names and quality. We will transition towards innovation together with them. To make essential changes happen, security companies have to open up to one another. Panasonic is still an expert in video surveillance, Polaris are experts at investing and growth – this makes them a perfect match to remain at the forefront of innovation and development and be therefore open for necessary changes towards interconnection'.

https://business.panasonic.eu/

Tdsi Agrees Acquisition by Vitaprotech France

After strategic analysis of the best options to accelerate growth at Tdsi and augment the launch of the new Gardis Onvif Profile A and C compatible hardware and software platforms and the journey to offering Access Control as a Service capability, Tdsi has announced that it has agreed to be acquired by Vitaprotech Group, a European access control and security systems technology company. This acquisition continues Vitaprotech's steady growth strategy, which has included several acquisitions in the market over the last 2 years. This acquisition aligns with both companies' growth strategy to develop export sales of technological security solutions for sites all around the world. For over 35 years, Tdsi has been offering a range of readers, controllers and software systems through its customer network, primarily in the Uvnited Kingdom, France, Asia Pacific and the Middle East. The acquisition will expand Vitaprotech's access control portfolio, strengthen the group's exports and give access to international distribution networks in the sector.   **www.tdsi.co.uk**

Video Surveillance Solution by Hanwha for Mega Logistics Hub

Over 1,600 Wisenet cameras manufactured by Hanwha Techwin have been installed at Asia's largest mega hub terminal in order to help operators monitor the movement of parcels and vehicles, as well as keep employees and visitors safe. In June 2018, CJ Logistics opened Asia's largest mega hub terminal comprising two buildings with four floors above ground and two underground in Gonjiam, Gyeonggi-do, South Korea. They chose Hanwha Techwin as its supply partner and have since installed Wisenet X series IR PTZ cameras along the building exteriors, providing periphery monitoring 24/7 and auto tracking, while IR illumination provides visibility even at night. Inside, around 1,400 Hanwha Techwin's Wisenet Q series cameras were installed to help detect any problems occurring to the automated conveyor systems. They also oversee the movement of over 1,500 vehicles in and around the terminal and help create a safe working environment.   **www.hanwha-security.eu**

Smart Building Expo 2019: Convergence in the Digital Era

Two months before it starts, expectations for the second edition of Smart Building Expo, the technological convergence exhibition scheduled to be held at Fiera Milano on 13 to 15 November 2019, are on the rise. Organised by Fiera Milano and Pentastudio, Smart Building Expo will be an opportunity to review the development of the networked building market, currently undergoing a profound transformation. Integration is nowadays not just a technological requirement, but an essential need: we are witnessing a smart revolution which is profoundly transforming buildings and cities. Born out of home and building automation and system integration, Smart Building Expo 2019 is expanding its coverage to include the Smart City, with the strategic issue of 5G connectivity as well as systems for the production of renewable power and energy efficiency upgrading. The exhibition will present the market of digital infrastructure together with its applications for buildings and cities. Strategic sectors such as security are already represented by Sicurezza, one of the main European exhibitions for the security industry, which will be held at the same time. A highlight of the event will be the Milano Smart City Conference which will consist of three intense working days, each including an institutional morning session with international keynote speakers of high scientific profile, and a more technical afternoon session with illustrations of best practice. Each day will feature a different vertical stream: the digital infrastructure, smart city-enabling technology, with a particular emphasis on 5G; smart mobility and logistics, fusion between the virtuality of networks and the physicality of urban transport in the era of self-driving cars and e-mobility; urban security and monitoring, a predictive response to the problems of urban areas in terms of security and territorial control.   **www.fieramilano.it**

Amthal Opens Doors with Came BPT

Amthal has partnered with Came BPT on a number of prestigious projects to create bespoke door entry systems that operate using integrated smart technology for the benefit of residents across the UK. Renowned intercom specialists Came BPT has continued to specify use of Amthal, operating with leading real estate consultants to design and integrate door entry solutions in line with high-end specification. Came BPT and Amthal have worked together from initial design and specification stages to create specialist networked systems, incorporating high-end smart technology entrance panels and video hands free intercom handsets. Says Steve Bond, Installer East Sales Manager at Came BPT UK: 'Amthal as an all-encompassing fire and security specialist, collaborates well with our team to deliver on smart technology, created and installed to achieve exact customer expectations'.   **www.amthal.co.uk**

Innosent Looks Back on a Successful Ifesc 2019

Innosent took part in Ifsec 2019 in London from 18 to 20 June 2019. At the international trade fair event for security technology, the sales team presented the latest radar solutions for the security industry. This was already the radar equipment company's second time as an exhibitor at Ifsec. Visited by 27,000 trade specialists, the show is one of the sector's most important. After three days at the trade fair, the radar experts' conclusion was positive. 'The last time we participated in Ifsec, in 2017, paled in comparison to this year. The trade specialist visitors showed enormous interest. We are constantly working intensely to advance our products and technology. It was all the nicer to receive praise for these efforts at the trade fair', said Christian Bömmel, Head of Sales & Marketing at Innosent, adding: 'The time-consuming trade fair preparation paid off. IFSEC was a great success for the whole team.' In contrast to the previous year, the company decided to focus its trade fair planning exclusively on the security sector. Thanks to its popularity, IFSEC was a priority for the radar experts.   **www.innosent.de**

New Comelit Fire Team

Comelit UK has demonstrated its commitment and growing prominence in the Fire Sector, investing in an additional member of the team by introducing a dedicated Fire Technical Support Engineer. Experienced fire industry specialist David Fraser joins Comelit's highly specialist team incorporating Wesley Wright as UK Fire Manager and Mandy Bowden as Fire Business Development Manager North. David has over 20 years experience working with leading fire specialists, dedicated to installer focus together with training and operations. He joins Comelit to offer technical support services from specification through to commissioning and preventative maintenance.   **www.comelitgroup.com**

Open Security & Safety Alliance at GSX 2019

From GSX 2019, member companies will showcase the first prototype cameras based on OSSA's commonly defined Technology Stack and OS – and share a glimpse into what's coming as the digital marketplace prepares to launch next year. The IoT evolution is based on connecting humans and the things around us – and for the security and safety industry, our products must connect and interoperate. As the IoT continues to progress, users expect products to pair and work alongside each other. We can no longer design in silos and single-brand settings. September 9-12, 2019, at McCormick Place in Chicago. On the GSX show floor, OSSA will be represented by the following member companies:

OSSA 'Ambassador' at GSX 2019 (rotating role):
- Bosch Building Technologies (#417)

Newest OSSA Members Present:
- Dahua (#1023)
- Johnson Controls (#703 and #503)

Other OSSA Representatives:
- Hanwha Techwin (#251)
- Lilin (#1617)
- Milestone Systems (#923)
- NetApp Inc. (#150)
- Security & Safety Things – SAST (#233)
- Vivotek Inc. (#1960)

www.opensecurityandsafetyalliance.org

Moxa Joins Open Invention Network

Open Invention Network recently announced that Moxa has joined as a community member. As a provider of industrial edge-to-cloud connectivity solutions, Moxa demonstrates its commitment to enable advanced industrial networking and communications applications. "As the Internet of Things will herald new products and services for consumers, the Industrial Internet of Things will do the same in reshaping industrial production", said Keith Bergelt, Chief Executive Officer of Open Invention Network. "The vast majority of IoT and IIoT platforms use embedded Linux. The mountains of data produced by these devices are processed using open source software solutions like Hadoop, running on x86 machines servers that have Linux. IoT and its key innovations rely heavily on open source. We greatly appreciate Moxa's leadership in joining OIN and supporting patent non-aggression in Linux and adjacent open source technologies."   **www.moxa.com**

Hospital Access Safeguarded

Brive Hospital has selected STid and Vauban Systems to provide access control to its premises and guarantee the protection of its patients. Since November 2016, the Ministry of Health has required all health care facilities to guarantee the security of people, property and data. Access control is managed and video surveillance provided via Vauban's Visor Access software application, while STid delivers access to premises, offices and treatment rooms with its highly secure Architect access control readers. These offer a level of security in line with recommendations from the French network and information security agency (ANSSI), and are compatible with the future smart cards for health care professionals that will provide access to patient files. The latest building to be equipped is the 'sensitive' maternity ward. The new access control system means premises can be made secure at night, or in exceptional circumstances (aggressive parents, threats to a new mother, risk of kidnapping, etc.).   **www.stid.com**

New Bedford Housing Authority Selects Avigilon for New Video Security Solution

Avigilon announced that the New Bedford Housing Authority ("NBHA") in Massachusetts, USA has selected Avigilon video security solutions to help improve safety and reduce crime within its community. With close to 1,750 federal public housing units and 748 state aided units, the NBHA services over 6,000 individuals by providing safe, well-maintained and affordable housing units. New Bedford has faced challenges related to crime, which prompted the NBHA to seek out a security system that delivers actionable results to increase public safety throughout its community. The NBHA has deployed a complete Avigilon solution to monitor 13 of its properties throughout the city. The system includes more than 125 Avigilon cameras and Avigilon Appearance Search technology, which is powered by AI to help enable security officers to quickly sort through hours of video with ease to locate a specific person or vehicle of interest across an entire site or multiple sites that are connected to the same Avigilon Control Center client software. **www.avigilon.com**
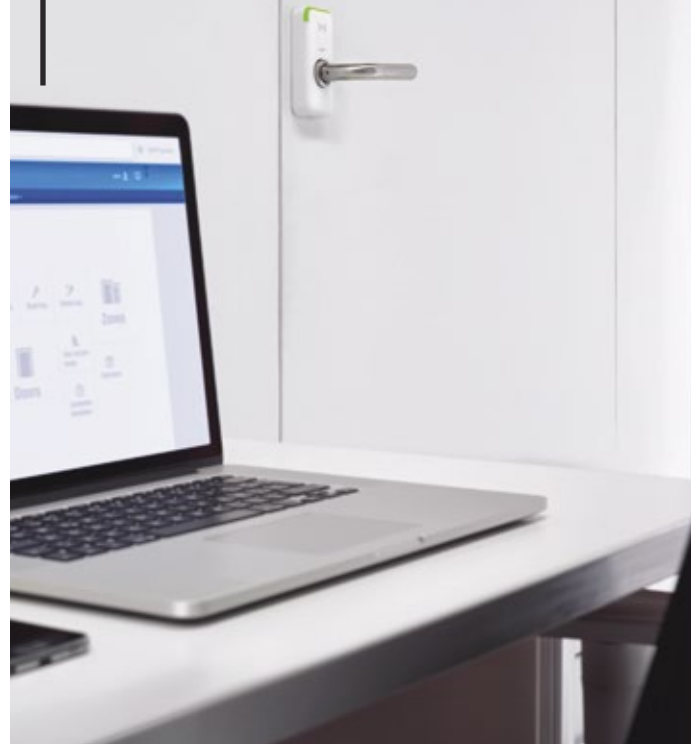
PureTech Systems Awarded Multiple Site Contract

PureTech Systems announces it has been awarded a multiple site contract for the deployment of its PureActiv Geospatial Video Analytics and Sensor Integration Command and Control software. The system will provide wide-area perimeter protection at multiple electric power generation plants in the United States. This award follows extensive multi-year testing of its system to prove the ability to reliably detect challenging perimeter breaches by adversaries. The system integrates PureTech's market-leading geospatial video analytics and other sensor technologies into a seamless Common Operating Picture. The solution also includes full PureActiv's VMS functionality. For security reasons, the client cannot be disclosed. **www.puretechsystems.com**

Ifsec 2019 Post-Show Report

Ifsec International welcomed 34,756 total visitors from 117 countries to ExCeL London on 18-20 June. Visitors represented a combined annual purchasing budget of £23 billion. Installers, integrators, distributors, consultants, government representatives, manufacturers and a range of other security stakeholders joined together to discover exclusive product launches, see solutions in action, meet suppliers face to face and take advantage of three days of critical content. Exhibitors commented on the high quality of IFSEC's attendees. Norden Communications, who is launching its business in the UK and EU and used a presence at Ifsec to generate brand exposure, said: "We had long, detailed conversations with a good number of visitors per day. As a first-time exhibitor, we couldn't ask for anything more." **www.ifsec.events/international/**

Gunnebo Has Completed the Acquisition of Cominfo

Gunnebo has completed the acquisition of the Czech company, Cominfo a.s. that was announced June 20, 2019. The acquisition is in line with the Group's profitable growth strategy and will further strengthen the market position for its Business Unit Entrance Control. Cominfo is based in Zlin in the south-east part of the Czech Republic and has some 160 employees. Cominfo has an annual turnover of approximately MSEK 140 and an EBITA margin in line with the one for Business Unit Entrance Control. The acquisition will, on an annual basis, add approximately 13 percent of sales to Business Unit Entrance Control and 3 percent to the total Group sales. **www.gunnebo.com**

STANDARDS

Establishing Common Ground

The Open Security & Safety Alliance Celebrates It's One-Year Anniversary

The IoT continues to evolve and take us down exciting new paths of possibilities. It's all about connection and deriving value from the things around us. These new possibilities provide us with numerous amounts of new data. Advantages of this new data are considerable, but first and foremost it requires us to collaborate as an industry. We should collectively strive to raise the bar concerning performance, data security and privacy.

The Open Security & Safety Alliance (OSSA) launched a year ago in fall of 2018 with a mission to gather market players to collaborate on an open industry ecosystem. Over the past 12 months, experts from around the globe worked through OSSA to build an ecosystem and collectively create a framework that allows the trapped – and nowadays often unused – data to be unleashed. This vision is anchored by the use of a common market approach including agreements on high levels of trust and the right levels of performance. This vision gets accompanied by the creation of a shared software and hardware platform which includes (1) a vendor-agnostic Operating System (OS), that is entirely based on open standards and (2) a corresponding IoT infrastructure that includes a digital market place and a software development environment. Together, these components will reduce friction when conceiving, deploying and maintaining security and safety devices, systems and settings.

Once working with this common framework, industry participants can focus on real differentiation instead of fixing the basics. They can then innovate and differentiate working through apps delivered by way of a digital marketplace. We're all familiar with this concept as it's the approach taken by well-established tech categories such as the smart phone. Downloading apps to a device is intuitive and an open, digital marketplace allows for players from all walks of tech and non-tech to enter and contribute to our security universe.

Companies with Foresight

Since GSX 2018, OSSA has steadily attracted innovative companies of all sizes and across various business backgrounds to join together to shift our industry in a new, necessary direction based on the Internet of Things. The alliance is working alongside 30+ inventive international players that currently make up the OSSA member roster. They have achieved significant strides in a very short timeframe by focusing on unifying the market first through an advanced – yet familiar – technique of a common OS and apps. Throughout 2019, OSSA member companies showcased prototype cameras based on the commonly defined Technology Stack-, including the OS.

Coming Soon: A Thriving Digital Marketplace

A common, unified platform makes life easier for application developers and opens the door to new technologies from companies within and outside of the security space. In addition, it enhances trust, usability and choice for integrators, customers and consumers.

In early 2020, one of OSSA's members, Security and Safety Things, will launch a digital market place – which will take the industry into a completely

◀ f.l.t.r.: Johan Jubbega, President of the Open Security & Safety Alliance, Pieter van de Looveren, Director Marketing Communication at Bosch Building Technologies, Dr. Heiko Baumgartner, Publishing Director GIT SECURITY EMEA

new era. Businesses will thrive as apps are sold onto cameras, and technologists will relish in the newfound functionality and fervor afforded by this modern approach. Soon, everybody will be able to more easily imagine, invent and gain value from interoperable security and safety systems.

A Baseline on Data Security and Privacy

In a connected world, data security and privacy will become even more valued than today. By joining (extra-)industry forces, OSSA intends to continuously enhance these factors from within the alliance.

'If an attack happens to your cameras today and then to mine, it would be easier to solve the issue together, save time and money, and move forward to other important things. We need to work together in the end anyway. So, let's make the industry better together,' states President of the Open Security & Safety Alliance, Johan Jubbega, to GIT SECURITY.

'If we look at Microsoft, for example, nobody sees Windows as a threat. Or smartphone users, they download the best apps to use their phone with the best setting for themselves. And that's something we would like to achieve for the security industry. Having the best security solutions for each individual application,' adds Pieter van de Looveren, Director Marketing Communication at Bosch Building Technologies.

Be Part of What's Next in Security

Organizations with foresight for the security market realize the need to unify first and differentiate second. This understanding is what's attracting forward-looking entities to the Alliance as OSSA steadily grows and enjoyed tripling its membership in the first year. Encouraging more companies to join their mission will be a goal, as it is a pivotal point in this industry. To prosper, security players must cater to the requirements of commonality and make security systems intuitive, interoperable and frictionless.

Van de Looveren sees great potential in it: 'We want to talk about solutions and the pain points of end users. That's why we want more partners in the whole ecosystem. You need other vendors, distributors on board – that's what we are doing right now. Partners are a motor for news ideas, so in the end we can attract more innovation. Right now, the greater part of the data is not used. How can we revolutionize the industry if only two percent of data is used, and the rest is still untouched?'

Any company involved in the access control, building automation, intrusion or video surveillance markets – including adjacent industries – should be part of this important movement. Already, member organizations include device manufacturers, software developers, system integrators, device component manufacturers such as system on a chip (SoC) manufacturers, installers and commissioners, service providers, management software providers, distributors, specifiers, consultants and others.

Over the next two years, OSSA goals include further growing our ecosystem of member companies and producing and driving the adoption of new standards and specifications for products and solutions in the security and safety market. The Alliance will provide guidance on interpretation of these standards and specifications to promote more intelligent, useful solutions for users.

Another component on the Alliance's roadmap is the setup of a certification program for hardware and software solutions. This effort will ensure offerings meet the agreed-upon standards and specifications set forth by OSSA to further enhance quality and trust within the market.

To exchange thoughts about this new direction and exciting transformation within the security space or to get involved and connect with other market-movers and visionaries, you can reach OSSA executives at communications@opensecurityandsafetyalliance.org or visit www.opensecurityandsafetyalliance.org.

CONTACT
Open Security & Safety Alliance
San Ramon, CA, USA
www.opensecurityandsafetyalliance.org

Building Intelligent Buildings

Smart Building Expo 2019:
Convergence in the Digital Era

A few months before it starts, expectations are on the rise for the second edition of Smart Building Expo, the technological convergence exhibition to be held at Fiera Milano on 13–15 November 2019. Organized by Fiera Milano and Pentastudio, and sponsored by the main industrial and professional associations, Smart Building Expo will be an opportunity to review the development of the networked building market, which is currently undergoing a profound transformation.

Integration is nowadays not just a technological requirement, but an essential need: we are witnessing a fully fledged smart revolution which is profoundly transforming buildings and cities. Born out of home and building automation and system integration – already at the heart of the first exhibition – Smart Building Expo 2019 is expanding its coverage to include the Smart City, with the strategic issue of 5G connectivity as well as systems for the production of renewable power and energy efficiency upgrading.

The exhibition will present the market of digital infrastructure together with its applications for buildings and cities. Strategic sectors such as security are already represented by Sicurezza, one of the main European exhibitions for the security industry, which will be held at the same time. The synergies between the two exhibitions – their technologies and markets – consolidate their potential while professional users will be able to visit both and review their complementary and ever growing offerings. Both will be showcasing the latest technologies, thanks to the already confirmed participation of leading brands, as well as offering professional training and refresher courses for all technicians involved in the design and installation of building equipment.

Listen and Learn

Professional training is one of the priority attractions of Smart Building Expo, with a high-level scientific program arranged by the Steering Committee that counts representatives from leading professional and academic bodies in building automation and telecommunications among its members. In this fast changing market scenario, the Committee is already engaged in identifying the issues of greatest interest to the many professional categories and players in the networked building market. The training program, with a rich program of seminars and workshops, will cover every technological area of the exhibition and different offerings for professionals: from new domotics to active energy efficiency systems, along with smart applications for the office, retail and the startup ecosystem, which has become fertile ground for large companies looking for innovative solutions.

A highlight of the event will be the Milano Smart City Conference, sponsored by the Ministry for Economic Development and supported by the Ugo Bordoni Foundation. This conference will consist of three intense working days, each including an institutional morning session with international keynote speakers of high scientific profile, and a more technical afternoon session with illustrations of best practice. Each day will feature a different vertical stream: the digital infrastructure, smart city-enabling technology, with a particular emphasis on 5G; smart mobility and logistics, fusion between the virtuality of networks and the physicality of urban transport in the era of self-driving cars and e-mobility; urban security and monitoring, a predictive response to the problems of urban areas in terms of security and territorial control.

Considerable attention will be paid to the impact of technological innovation on the housing market and the digital revolution in infrastructure design, where BIM, BMS and BEMS will increasingly form the terrain for the emergence of new professional synergies.
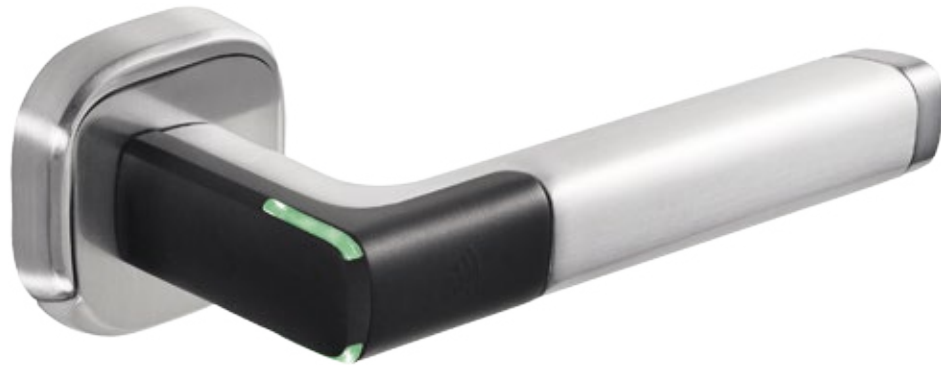
CONTACT
Fiera Milano
Milan, Italy
Tel.: + 39 02 49971
www.smartbuildingexpo.it

© AliFuat - stock.adobe.com

STANDARDS

Testing for Conformance

Companies Can Directly Contribute to the Development of New Profiles

Onvif began in 2008 as a small group of manufacturers collaborating to accelerate the acceptance of systems based on network surveillance cameras. The mission hasn't changed much, but its application and influence has: now it is an industry alliance for the physical security industry, as a nearly 500 member strong organization with more than 13,000 Onvif conformant products. With members on six continents, our specifications for video and access control have also been adopted by the International Electrical Commission, one of the world's most influential standards organizations.

Onvif is a member-driven organization and operates on the basis of consensus. The next Onvif profile will be developed based on feedback from Onvif members and the physical security industry at large.

As a member, companies can directly contribute to the development of new profiles, as well as claim Onvif conformance. Specific profiles dictate the features that products must have to ensure interoperability with other conformant products. Conformance is achieved when the technical specifications of the device or client meet the technical requirements stated in the specific Profile Specification document(s). To increase the confidence in the conformance statement, Onvif also provides Test Specification documents, a Device Test Tool and a Client Test Tool. This Conformance Process Specification defines how a member shall use these components to claim conformance to one or multiple profiles.

Testing for Conformance

Only members can claim conformance. Conformance is achieved through a self-declaration process where manufacturers test their products using the Client Test Tool or Device Test Tool. The test tools automatically generate three important documents: The Declaration of Conformance, Feature List Document and Onvif Test report. While the process itself is self-driven, manufacturers must prove that they have met all the requirements to claim conformance in order to be listed on the Onvif-conformant products page which is the only official source for a complete list.

Onvif improves its test tool as new profiles are developed, in order to include support for additional, more robust features. When Profile S for video streaming was developed, there were certain things the device had to do to claim conformance, such as having support for video streaming and metadata configuration, so the test tool was

based upon those specific features. Today, as new profiles are released, updates are continuously being made to the test tool. Profile T for advanced video streaming has many features that Profile S does not, such as support for H.265 video compression and bidirectional audio streaming. In turn, Onvif needed to develop a test tool that would confirm conformance on Profile-T-specific features.

Regardless of the specific profile a manufacturer is testing, there are several hundred tests within the individual test tools that devices must go through to meet Onvif conformance. The original test tool was designed for basic communication between devices and clients. Once that communication basis was developed, Onvif started adding other, profile-specific features that needed to be evaluated, such as granting and revoking credentials with Profile A or edge storage retrieval with Profile G. The test tool is constantly being up-

dated, with this past July marking the 20th version of the Device Test Tool and the 10th version of the client test tool. Recognizing that the needs of the industry are ever-changing, the test tool process gives Onvif the ability to, overtime, enhance the products and specifications that the manufacturers developed their devices to conform to.

As a new profile is developed, all manufacturers who are active within Onvif help to identify which features and specifications need to be a part of the profile. When a device or client is put under for conformance testing, the software validates to what features it conforms, which is different for each profile. The test tool runs the device through a series of tests, and the device then receives a pass or fail. Manufacturers are given the ability to make changes to their product and retest before it is released to the market as a conformant device or client. There is no limit on how many times a device is tested, and members are encouraged to retest every time the firmware is updated. The specific firmware version of each product is also included on the Onvif website as part of the Declaration of Conformance.

Developers' Plugfests

Developers' Plugfests have been a semi-annual norm since the founding of Onvif. The three-day event enables developers to test their implementations of Onvif profiles with other Onvif-conformant products, and to give feedback on possible future directions of the organization.

In early June, some of the brightest developers and engineers in the industry gathered in Tokyo to attend the 20th Onvif Developers' Plugfest. In total, 47 developers and engineers from 22 Onvif member companies to test their products independently for Onvif conformance and were given the opportunity to test their devices with those from other manufacturers. Attendees logged nearly 250

hours of testing. There has been cumulative participation from more than 1400 technical experts over the years. In total, plugfests have logged approximately 5,000 hours of testing, demonstrating our member companies' steadfast commitment to providing flexible, best of breed solutions.

All of the plugfest participants across the years have directly contributed to the ongoing development of standards. By choosing to work collaboratively, member companies have accelerated the use of open source solutions as an industry norm, and single manufacturer lock-ins are becoming a thing of the past. It is through the plugfests that Onvif receives valuable feedback to further drive the acceptance of interoperability.

False Conformance Claims

As the usage of Onvif has become increasingly more widespread, so to have false claims of conformance. In many cases, claims are based on a company's misuse of the Onvif trademark or a member company's misunderstanding of the requirements of membership. For example, companies that offer rebranded OEM products must retest and submit new documentation to show valid conformance for each product, even though the original product is Onvif certified, as conformance is specific to a product offered by a member company.

Onvif approaches false conformance claims by educating members and the industry at large about what the Onvif name means through attending trade shows and conferences, speaking at events and holding ongoing online training sessions. Onvif also has developed an online false conformance-reporting tool to encourage the industry to report suspected false claims. The organization maintains a current list of its members and a dynamic conformant products database on its website so that the industry can easily deter-

mine whether a manufacturer is an Onvif member and is marketing conformant products. Similar to other standards bodies, if a brand has value, counterfeiters will no doubt see the value in misusing the brand.

The Future

With the continued development and release of new profiles, Onvif is making a long-term commitment to open systems. Profile development can take years and requires the work of many Onvif member company representatives from all over the world. Conformance testing plays a huge role in this process by ensuring that products abide by the standards that Onvif has produced for continued interoperability. By providing a concrete conformance process, Onvif and its member companies can further contribute to the development of standards that can take the physical security market into the next decade. Conformance means flexibility to the end user, and flexibility means best of breed solutions.

Author
Bob Dolan,
Vice Chairman of the
Onvif Technical Services
Committee

Cooperative housing estate: the loss of a key causes enormous expenses every year

COVER STORY

Many Keys, One Lost…now what?

Digital Lock Technology from SimonsVoss Increases Security And Reduces Costs

The mechanical locking system of a cooperative housing estate is only as safe as the care with which the residents look after the keys. Operators of such housing estates regularly complain about disputes with the users and the high costs caused by the loss of a key. This also presents a security risk. Digital lock technology from SimonsVoss provides a solution, reduces the costs and simultaneously increases convenience.

According to a study by Deutschen Schlüsselversicherung (German Key Insurance), a key is lost every 35 minutes somewhere in Germany. VdS Schadenverhütung (the Security Association Damage Prevention) has calculated that a financial loss of some 100 million Euro is directly caused each year by the misplacing of 800,000 keys (source: immobilienscout24.de). Depending on the size of the building and the organization of the mechanical lock system, losing a master key can quickly result in five-figure costs.

SimonsVoss Technologies (Unterfoehring near Munich) provides flexible system solutions for cooperative estates that ensure security in new buildings and also in existing buildings, that provide users with more convenience and significantly reduce costs when a key is lost.

No Problems when a Key is Lost

There's not always a large enough budget available to digitally optimize all the doors in an entire building at once. A practical start, however, can be made in multi-story apartment houses where the front door is secured by an electric lock. A SmartRelais 2 digital key-switch from SimonsVoss can be retrofitted in such situations. An external service provider, such as a security company and

Digital lock technology from SimonsVoss, consisting of digital lock cylinders, a SmartRelais and a SmartHandle

Digital lock cylinder

Digital SmartRelais

Digital SmartHandle

Lost transponder?
* Maintainer / House technician creates a replacement at his/her desk
* Resident collects replacement
* The ID of the original is blocked the first time the replacement is used
> Security is restored

SimonsVoss partner, or the company's own technician can manage the economic system for the housing corporation.

The white surface-mounted housing is fitted outside near the door handle, and the integrated electronics controls the existing door opener. The process is initiated by holding up an individually pre-programed transponder (a card or chip tag). If a resident loses this entry medium, the whole expensive set of door keys and the lock doesn't have to be exchanged. The service provider prepares (programs) a replacement transponder. As soon as this is used for the first time, the access rights of the lost transponder are automatically deleted, and can no longer be used by anyone to gain entry. This immediately restores security at the front door. In this constellation, the residents continue to use their mechanical keys to open and lock their individual apartment doors.

This basic version of the SmartRelais 2 can be easily extended, for example by including another door at the rear of the building into the system. As there will probably not be an electronic lock fitted here, the existing cylinder is exchanged for a digital lock cylinder that is operated by the residents by holding up their own personal transponder. The management of such a system can be done offline by the building administrators, and further transponders issued for specific people using this digital system – for building system technicians, for example.

Any System Size up to Full Networking

If it is time for the security level to be increased and convenience further improved, it is possible to equip cellar doors with self-locking panic locks and an electronic release; utilities plant rooms can be fitted with an electronic lock cylinder and thereby made accessible to a limited circle of people.

The configuration of the system also takes place offline in this situation. This only changes for networked solutions – the most comprehensive installation for residential buildings. System control is done by the building administrators or the system operator via a PC with a VPN connection to the building. In the fully networked version, the individual lock components (electronic release, cylinder, SmartRelais) are activated by the transponders used by the residents.

When an apartment viewing is to take place, it is possible to remotely grant temporary access to the building. When a system is partially networked, a SmartRelais Controller is fitted in the building, from where the SmartRelais reader at the entrance door is controlled, and where the residents load new or altered access rights onto their transponder. An additional benefit for the building administrators is the ability to issue time-limited access rights (for example, for repair or maintenance technicians).

Digital lock cylinder
Dual knob cylinders are ideal, for example, for doors in corridors because a transponder or a SmartCard is always necessary on both sides to open the door.
- Simple cable-free installation without drilling or dust
- Can be operated with a transponder and a SmartCard
- Freely programmable, WaveNet capable
- Automatic recording of up to 3,000 access events
- Time zone control
- Long battery life of up to 300,000 operations
- Integrated door surveillance with Door-Monitoring
- Available in various versions, e.g. with VdS approval, weatherproof, for anti-panic and fire protection doors, as half-cylinder (one-sided)
- 3-level warning system if the battery is low
- Smart design with small knobs

Digital SmartRelais
The SmartRelais 2 is small and compact and therefore ideal for narrow installation situations. It is required to open a barrier or a roller shutter or when other systems, such as a time and attendance recording terminal, should also be operated with the transponder.
- Can be operated with a transponder and a SmartCard
- Control of technical apparatus and systems
- Can be used to transmit data in virtual networks
- Fast data transmission
- A large buffer capacity, blacklist distribution with acknowledgment and consistent system monitoring provide high operational reliability
- Can be networked via wireless
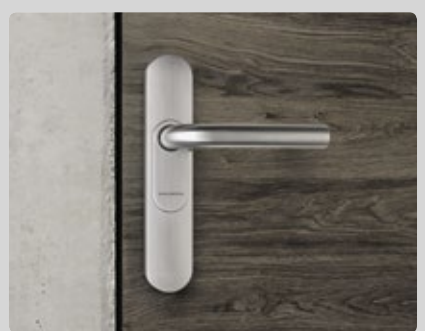
SmartHandle Digital Door Lock
The SmartHandle with 'SnapIn' fitting is a complete door lock that is fitted without any cables or drilling. That means without making any dust and without damaging the door or frame.
- It is especially suitable for external use
- Simple SnapIn fitting with a single screw
- Large choice of versions and accessories, for example different types of fitting, various handles and covers
- Can be operated with a transponder and a SmartCard
- Available with DoorMonitoring function, i.e. security-relevant information is forwarded, for example, to a central security center.
- Can be networked via wireless

ACCESS CONTROL

Creative Security

Aperio Technology Delivers Access Control for London's Innovation Hub

Modern office design needs access control that is powerful, flexible and aesthetically in tune with workspace users. Aperio achieves all three – wirelessly – at Plexal, a new £15 million flexible work environment for East London's ‚innovation community'.

Enterprise and academia work together at Plexal, with technology companies, start-ups, universities and creatives under one roof. Up to 800 entrepreneurs use the workspace. Plexal required a tried-and-tested access control solution they could rely on for high-end security to protect this new co-working office against unauthorized intrusion and burglary. Easy, non-disruptive installation of new locking devices was another goal, so a wireless solution would be preferred.

Any chosen solution would need the flexibility to expand access control as the site scales up over time. Device aesthetics had to complement a contemporary, light-filled interior design with lots of glass.

Flexible Wireless Access Solution

Plexal offices are now fitted with Aperio wireless, access card-based locking technology. The battery-powered locks are integrated with Doorflow, Netnodes' online platform for managing and auditing building access. So far, fifty-nine L100 wireless high-security door locks have been installed and

integrated online. These locks provide a high level of physical protection and transmit door status in real time.

"Plexal required an adaptable locking solution for a range of different doors and, with no wiring required, it was quick and easy to install Aperio with minimal disruption," said Stewart Johnson, Director at Netnodes.

Because the locks are battery- rather than mains-powered, the wireless solution also keep the facility's maintenance costs and energy consumption low. The wireless locks use no power when idle, only ‚waking up' to read credentials or maintain a system heartbeat. Annual running cost savings over traditional wired doors are significant.

Modern Design for a Contemporary Office

„We have a futuristic-style, open-plan design here – our offices are predominantly glass-fronted, so we needed an effective design which was not only robust but adaptable, too," said John Herbert, Facilities Manager at Plexal. „What really appealed

to me about Assa Abloy access control's products was the aesthetics."

Aperio technology is built on an open platform for integration with management system. Plexal have the option to easily expand to new offices, floors or even buildings. Aperio can upgrade mechanically locked doors and wirelessly connect them to new or existing access control systems. This is achieved with minimal modification to doors and premises, offering a simple, cost-effective security upgrade.

„Should any additional doors need to be added to the system in the future, this can be done easily without modifying or changing the aesthetics of the environment," Stewart Johnson confirmed.

STid Mobile ID®

PRESENT YOUR CREDENTIALS AND SHOW YOUR TRUE COLOURS

STid Mobile ID® is the only end-to-end customisable solution:
platform, virtual badges, mobile applications...
everything is adjustable with our SDK for a seamless
integration into your ecosystem.

www.stid-security.com

8 Awards

STid

Modular Video Intercom

Hikvision is launching its 2-Wire modular IP Intercom for retrofitting in multi apartment buildings, an extension solution to the already successful 2-Wire kits that are mainly used for small residential houses. The intercom delivers all the benefits of IP surveillance through just two wires – data and power. This makes it simple to install, and great for retrofitting and modernizing large residential and office building projects. Full HD images give a clear picture of the door, and infra-red lighting provides excellent night vision. The inclusion of WDR (wide dynamic range) means there's no problem if the camera is faced with direct light from outside. A mobile app allows entry management from anywhere. A range of modules enables installers to build the right system for the scenario, which can also be integrated with video surveillance, access control and intrusion systems so it can be a seamless part of any total security solution. The 2-Wire system can be combined with IP intercoms through a network that is connected to power and data distributors while also sharing common accessories and modules.   **www.hikvision.com**

Video Camera with License Plate Recognition

License plate recognition cameras from Grundig are special video cameras with integrated software. They are used to support the identification and recording of stationary or moving vehicles. The camera supports a whitelist and an external relay and can be used as an independent system to open gates or barriers. The camera can be fully integrated into Grundig's NVR and video management software so that it supports the administration of vehicle entry and exit. There are two models with different focal lengths available: GD-CI-AT2647T – 2 Megapixel bullet IP camera 2,8-12mm motorized zoom lens, GD-CI-BT2647T – 2 MP bullet IP camera 8-32mm motorized zoom lens. The cameras can be used close to a barrier or for the remote recognition of vehicle license plates. The intelligent traffic modi that are integrated into the cameras serve to counteract problems usually caused by speed, weather and headlight glare.   **www.grundig-security.com**

Highly Integrated Long-Range Surveillance System

The Fujinon SX800 camera system marks Fujifilm's entry into the surveillance systems market. With a full HD camera and an in-house produced, optically stabilized 40x zoom lens, two high-performance components are integrated into one system. Thanks to its powerful 1 1/8" image sensor, the long focal length range of 20 mm to 800 mm and hi-tech image processing technology, the camera is ideally suited for aerial surveillance. The integrated high-speed auto-focus provides a sharply focused image in less than a second, while a fog filter and heat haze reduction technology helps prevent weather interference. The system provides consistently sharp images, even of objects several kilometers away. In addition, the integrated design of the new camera reduces the high adjustment effort normally required for camera installation. The camera will soon be available as both a mobile stand-alone device and as a system that can be integrated into a pan-tilt head.**www.fujifilm.eu**

APS Trade Fair Attendance

For the third year in a row, Uhlmann und Zacher is participating in the bi-annual APS trade fair (Alarme Protection Sécurité) from 1-3 October in Paris. The event, for safety and security professionals, provides an overview of current trends and developments in the international security industry. The latest products from the company can be tried out at the booth, where the focus is on the electronic door handle and door fitting. The successful product range has already won several awards and, thanks to the large number of variants, there is a solution for almost any door application. As one of the highlights, U&Z will present the electronic door fitting with short plate, which is ideal for installation in fire and smoke resistant doors as well as in emergency exit locks. The APS technical trade fair brings together suppliers of protection and security solutions under one roof at the Porte de Versailles exhibition center. Visit the U&Z team at Booth B25 in Hall 5.2.   **www.uundz.de**

Deister Electronic Is a Finalist for the GIT SECURITY AWARD Again

The new loxxIn solution for the contact-free activation of computer monitors impressed the independent jury and it has qualified as a finalist for the GIT SICHERHEIT AWARD 2020 (the German-language version of GIT SECURITY) in category E: 'Security Management'. Readers of the magazine, customers, partners and product users from around Europe have now voted for all the finalists and the result will be made known in November 2019 at the international SPS trade fair in Nuremberg. By using the same transponder that is used for access control, the screen of a computer can be automatically activated just by the very presence of the transponder. This login solution is quick, simple and, thanks to the transponder's encryption, much more secure than even the strongest password. The loxxIn plug-and-play system administers the signals from two monitors, the associated input devices (keyboard/mouse/tracker) as well as the user interface (loxxIn desk reader) so that only authorized persons have access to the computer.   **www.deister.com**

Micro Dome Camera

The compact design of the DC-C4212RX from Idis allows for faster and more convenient installation and is ideal for retail and discrete security applications. The latest addition to the DirectIP camera range from the South Korean manufacturer of surveillance technology, its aesthetics are ideal for applications where there is a need for unobtrusive surveillance but where comprehensive, high-performance video capture is paramount. Measuring only Ø86 mm x 58 mm and weighing just 105 grams, the camera is a good choice for high-end locations such as jewelry shops and boutiques, as well as up-market restaurants and luxury hotels. It includes plug-and-play installation and configuration, while the elimination of a pigtail cable allows faster and easier deployment. The camera can operate under a wide range of lighting conditions with WDR, IR LED illumination up to 15m with day and night ICR, dual codec H.264/H.265 performance and plug-and-play integration with IDIS VA in the Box.   **www.idisglobal.com**

VIDEO SURVEILLANCE

"Secure by Default" Standards

Security Camera Manufacturers Agree on Common Security Standards

The UK government has launched an initiative to make "Secure by default and design" a key element for technological innovation. It has announced a GBP 70 million investment in making the UK a world leader in eliminating cyber threats to businesses and consumers by developing more resilient IT hardware. As part of the initiative, the Secure by Default standard was introduced by UK Surveillance Camera Commissioner Tony Porter on June 20 at IFSEC International, as part of the first ever National Surveillance Camera day.

The introduction of 'Secure by Default' standards aims to provide a guarantee for users that network video security products are as secure as possible in their default settings out of the box.

The development of the standard was led by security consultant lead Mike Gillespie, cyber security advisor to the Commissioner and co-founder of independent security consultancy Advent IM and Buzz Coates, business development manager at distributor Norbain, in consultation with leading manufacturers Axis, Bosch, Hanwha, Hikvision and Milestone Systems. The concept behind the new set of standards is that network video products will ship to installers in the most hardened, cyber-security-optimal form possible, with default settings which provide minimal vulnerability on first use.

A standard to Make Hardware More Resilient

The result is a standard that has been written by manufacturers for manufacturers. It includes requirements such as ensuring that passwords must be changed from the manufacturer default at start-up, that the passwords have sufficient complexity and it defines controls about how and when remote access should be given.

The surveillance camera commissioner Tony Porter said in a statement: "It has been an enlightening and positive experience working with manufacturers toward a common goal. It's a genuine first and further standards will follow over the next couple of years."

Gillespie explained the advantages for manufacturers, installers and end-users: „If a device comes out of the box in a secure configuration,

there's a good chance it will be installed in a secure configuration. Encouraging manufacturers to ensure they ship their devices in this secure state is the key objective of these minimum requirements for manufacturers. Manufacturers benefit by being able to demonstrate they take cyber security seriously and their equipment is designed and built to be resilient. Installers and integrators benefit from the introduction of the requirements by not having to know how to turn off dangerous ports or protocols during the installation. End users benefit because they know they are buying equipment that has demonstrated it has been designed to be resilient to cyber-attack and data theft."

https://www.gov.uk/government/organisations/surveillance-camera-commissioner

Hikvision Welcomes the Introduction of the "Secure by Default" Standards

Interview with Gary Harmer

GIT SECURITY has talked with Gary Harmer, UK & Ireland Sales Director for Hikvision who has participated in the process of developing these landmark standards, working with the UK Surveillance Camera Commissioner alongside four other major video surveillance manufacturers.

GIT SECURITY: Can you explain the wider context of the "Secure by Default" standard initiative and what is the idea behind?

Gary Harmer: The "Secure by Default" standards form part of a wider set of cyber security proposals from the Surveillance Camera Commissioner Tony

Porter for the UK Home Office. The initiative is aimed at the video surveillance industry and we see the initiative as a start to define baseline requirements as an introductory base level for product conformance, with further certification levels to follow in future. The intention is that when a security camera is taken out of the box it is as secure as possible in default

settings to provide maximum protection for the end-user from outside cyberattacks. It is then up to the installer to decide at the point of installation what additional functionalities should be actively enabled that may enable other product features but in doing so could increase potential risk by increasing the ability to connect to the device.

◄ **Gary Harmer, UK & Ireland Sales Director for Hikvision**

What elements does the standard include at this point?

Gary Harmer: These baseline requirements specifically address the issue of compromises of systems left live and internet-facing in an "unacceptable security configuration". As an example, on initial power up of a camera, you are forced to change the default password to a robust secure password. This measurement and password indicators are just the simplest of a total of 25 different criteria that need to be mapped so that you, as a manufacturer, can say that your product meets the baseline requirements. Other criteria are, for example, that only protocols that are necessary for the functioning of the component are enabled on devices and unnecessary ports are disabled as default. All enabled ports need to be fully documented as part of the shipping documentation arriving with the product ensuring relevant information is available to an installer on site. Manufacturers also need to deploy an effective strategy to quickly fix and notify on any identified vulnerabilities. Another criterium is that products have no hard-coded passwords that would have the potential to grant unauthorized access to the device.

What is your view on the initiative?

Gary Harmer: The Secure by Default scheme is a further positive step forward for the industry which we fully support. The process of developing these standards has been one of open collaboration between companies across the network video security industry that represent a very significant portion of market share in the UK. It's a truly positive and genuine initiative geared towards creating a more secure environment for all stakeholders in the network security ecosystem. It is a great achievement when companies that normally compete with each other work together for the overall good of our industry and we were very pleased to be part of the process.

How does the certification process work?

Gary Harmer: Only components or systems certified by the Commissioner can display a certification mark. The Surveillance Camera Commissioner (SCC) has prepared a self-assessment tool that helps manufacturers to self-certify video surveillance products against the secure by default minimum requirements. The tool contains a number of yes/no questions and needs to be completed for each product or product family that you wish to self-certify. Once the completed form has been returned to the Surveillance Camera Commissioner's office for assessment, they will issue the manufacturer with the "secure by default" branding and you will then be able to use this branding on the products that you have self-certified. The SCC will keep a list of self-certified products on the SCC website. Additionally, the UK Home office will now include information regarding the Secure by Default requirement within their 'Buyer's Guide' which is issued to all UK local authorities with the recommendation that they only use and specify certified products on their installations. At the same time the SCC are appealing to the wider commercial sector such as high street retails to adopt the initiative as being part of best practice.

When do you expect the first of your products to be certified?

Gary Harmer: I would hope that we will be self-certified and get the approval for a "Secure by default" branding on the large majority of our products by the end of August or beginning of September.

Tony Porter said that further standards will follow over the next couple of years. What other specifications do you expect for the future?

Gary Harmer: This recent initiative is just the beginning in terms of default network video security standards. We will continue to collaborate across the security industry and beyond to support the development of increasing standards and further security levels for all. We expect that higher levels of product cyber security will be introduced, including different grades such as we have seen in the intruder alarm market, and these would likely require third-party certification. I can imagine a higher level of certification for products for high-security environments certified by an independent party.

For the further development of security standards, it is probably helpful to involve other stakeholders than only the manufacturers?

Gary Harmer: Yes, a broader audience needs to follow certain rules to harden a security system against cybersecurity threats. Mike Gillespie is already reaching out to a number of installers and integrators to go through the same collaborative process to evolve a set of baseline minimum requirements for the installation of the devices and for the set up and configuration of networks so that they offer resilience to cyber-attack. Consultants need to be involved for system design requirements too, and finally the end-user will play a critical role by requiring their providers of video-based solutions to deploy in line with the guidance available and writing robust operating and processing standards for the use of security systems.

CONTACT

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

Camera detects face

SECURITY FOR STADIUMS

Fans 'Facing up' to Hooliganism

Fan Safety Improved Through the Use of Facial Recognition Technology

Who could ever forget their first visit to a big stadium football match? The crackle of excitement in the air like an electrical charge as you walk to the stadium with friends and family; an army of supporters marching in the matching colours of your team. The buzz as you queue to pass through the turnstiles and the first view of the pitch as you emerge into the floodlights of the stadium and the cacophony of chants from the home and away fans.

As the most popular sport in the western world, football has long been hailed as the game of the people. But live television coverage and the danger of partisan support spilling over into violence has threatened to put off many from attending games at stadiums across Europe. Now professional football clubs are fighting back. Stadiums are once again becoming safer and more enjoyable experiences for fans with the use of the latest facial recognition technology.

Danish Football Leads Way

The Danish Superliga football club Brøndby IF is leading the way. They were aware that family attendance had fallen at some of the more high-profile games, such as the local derby with F.C. Copenhagen, due to concerns over hooliganism and safety. With an average attendance of 14,000 people per game, and up to 100 registered persons on the stadium blacklist for causing trouble, the football club wanted to find a way to make genuine fans feel safer by preventing problems before they could occur.

With the use of cameras and facial recognition, blacklisted offenders can now be automatically identified in the crowd before they attempt to enter the stadium. This system identifies any individuals registered on the offenders list and alerts security staff to prevent them from entering. The automated procedure at the stadium entrance also decreases congestion at the gates, so genuine fans can get into the stadium faster. As well as improving security outside, the system allows staff more time to focus their attention on creating a safe and entertaining environment for those inside the stadium.

Brøndby IF's former CEO Jesper Jørgensen commented about the introduction of the new system: "As the first company in Denmark, we have been authorized by the authorities to use facial recognition technology in a number of new cameras that we have installed at Brøndby Stadium. The system will significantly increase our efficiency in identifying quarantined people at our entrances, and thus, we can better ensure that quarantine frames do not enter our battles. Historically, we

have been dependent on our guards being able to recognize the people who are on our quarantine list, and even though our guards are skilled, it is not an easy task to remember and appoint quarantined people when we, as us, have on average approximately 14,000 people per game passing through the entrances in a relatively short time."

Most Accurate

The Panasonic facial recognition software ensures high levels of accuracy. The technology can identify faces that are difficult to recognise with conventional techniques, such as those taken from an acute angle and even when part of the face is concealed or hidden by sunglasses or scarves. In fact, the National Institute of Standards of Technology (NIST) in independent testing identified the system as the most accurate facial recognition server on the market. The system was first used during a game in July and has already proven to be successful as Brøndby IF prevented one person who was on the quarantine list from entering the stadium.
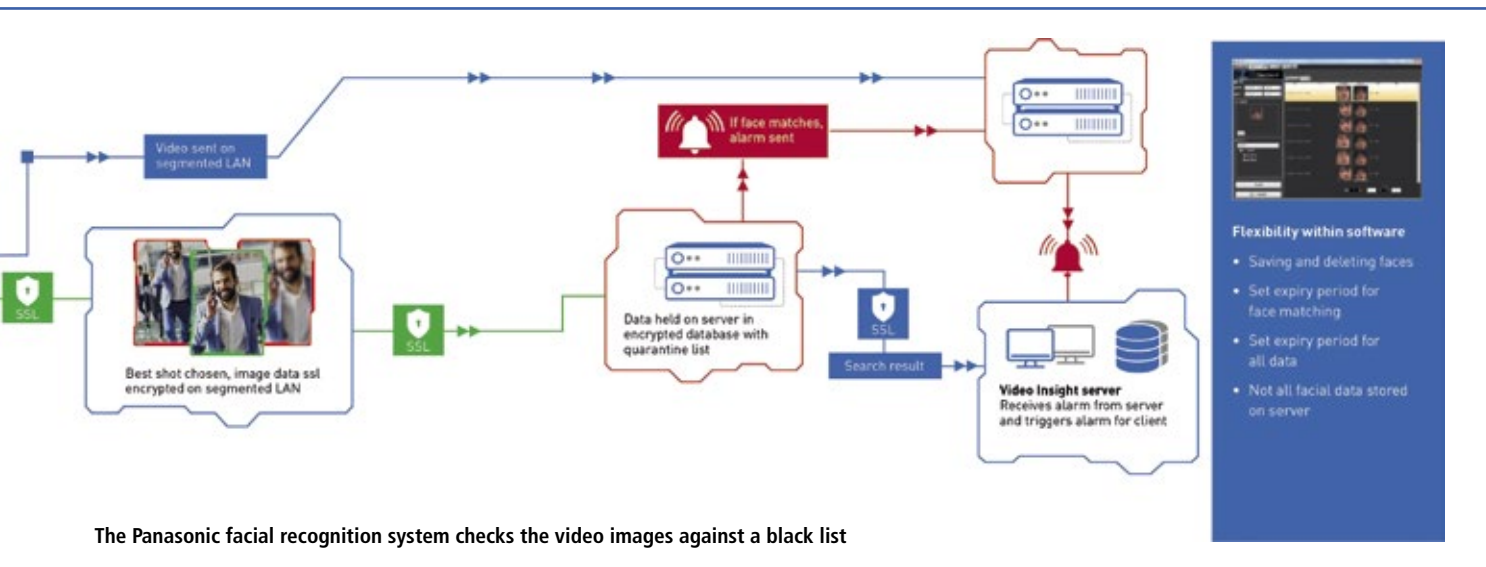
The Panasonic facial recognition system checks the video images against a black list

Protection of Personal Data

However, some fans initially were sceptical about the scheme. They had concerns about privacy and personal data protection. These fears quickly faded once the club explained the sensitive way that the scheme had been implemented. Personal data privacy is protected because the facial recognition technology does not store the images or data of any supporters, other than those registered on the blacklist. In addition, all personal data is stored on an internal server, not connected to the internet or to any other system, significantly reducing any cyber risk of data breach.

It is important to know that the new technology supports the process, but still humans have to make the decision and only Brøndby IF-authorized personnel have access to the Brøndby IF server. If you are not on the quarantine list, the system will not recognize or register the person. All personal data processed as part of the facial recognition system that does not result in a match with information from Brøndby IF's internal quarantine list is not stored.

By describing the process transparent to the public and by ensuring that the human factor is leading the process and the technology is only supporting, both management and fans alike have welcomed the new technology. Moving forward the club is exploring the potential to connect the system to a national hooligan register to help spot travelling troublemakers within Denmark.

Huge Potential

As well as helping football remain a game for the people, this technology has huge potential in the wider sporting and entertainment industry, particularly where there are large crowds gathering or ticketing systems in place. The facial recognition system contributes to a safer and more enjoyable stadium environment by alleviating security pressure on the ground and speeding access, whilst all the time ensuring that personal privacy is protected.

"Panasonic's facial recognition system contributes to a safer stadium environment by alleviating security pressure on the ground, while ensuring that

all data is protected from unauthorised external access" said Gerard Figols, head of the European security business at Panasonic. "In turn, we can offer peace of mind to football fans and Brøndby IF that our technology will improve the standard of safety even during high profile matches, something that fans have already complimented the system for."

Panasonic is further developing their stadium value proposition, so there are more solutions to come to enhance the fans' experience.

Security Products

Service Pack Release

Xesar 3.0, the system management software from Evva, has received a service pack update. It is now easier to operate and more intuitive, with improved usability and several new features. Automatic backups will be made when starting and stopping the Xesar system. Backups can, however, also be performed manually or each day at a defined time, and a backup is automatically performed before each update. Filter settings that are needed repeatedly can now be saved as presets in the user data. There is no limit to the number of presets that can be saved, and they can be amended at any time. User group management can now be customized to meet specific requirements, so individual, read-only or full editing rights can additionally be granted to these groups. A number of mask layout improvements have also been made. **www.evva.com**

BEX Asia

Uhlmann & Zacher (U&Z) is exhibiting once again at the Build Eco Xpo (BEX) Asia in Singapore after the successful premiere last year. The BEX Asia is a trade fair in Asia for green technologies and solutions, with a focus on sustainability. The event attracts builders, architects, developers, engineers, facility managers and planners. Innovations in smart building and automation in the form of intelligent solutions and automated control devices for optimizing building management and saving energy are showcased at the trade fair. More than 12,000 visitors from around the world are expected again. The latest eco-friendly developments in the building industry will be on show from 4th to 6th September daily, from 10am to 6pm at the Marina Bay Sands Expo. U&Z will be showcasing its latest developments from the world of electronic locking systems at the Bavarian Pavilion. System solutions and electronic locking cylinders and door handles will be on display. **www.uundz.de**

SECURITY FOR STADIUMS

Multi-layer Access Surveillance

Video Security and Access Control at VTB Arena Park

It is one of Moscow's most ambitious building projects: the VTB Arena Park was built on the site of the old Dynamo Stadium and revitalizes the entire surrounding area with a multi-purpose concept. At an estimated cost of US$ 1.5 billion, the modern VTB Arena Park combines sports, entertainment, commercial and residential facilities. Considering the wide range of very different purposes served by these various buildings, it was clear from the project's inception that a multitude of vendors and providers would be needed to cover all security needs.

From the security manager's perspective, the main challenge was to ensure that these disparate systems would function together and allowed for central management of a wide ar-ray of functions such as access control for tens of thousands of football fans entering the stadium on match days, monitoring the vast perimeter with its park zones, and protecting residential areas against intrusion. A first challenge arises from the sheer size of the project: the football stadium, known as Dynamo Central Stadium and home to FC Dynamo Moscow football club, hosts league matches with

Access control and video surveillance of up to 12,000 excited hockey fans is handled by the integrated security system

a capacity of over 26,000 spectators. The park's indoor arena holds more than 12,000 guests during ice hockey matches, basketball games and rock concerts, while the 300,000m² park area also has retail facilities, a five-star hotel and a 1,600-car parking garage.

VTB Arena Park was looking for a partner able to tackle that key challenge – integration of all parts into one platform – and chose Bosch as its provider of end-to-end video security and access control. Aside from the project's complex technical ramifications, there was a particular system design challenge: residents of the Arena Park should feel at home enjoying the highest quality of living, while the area also needs to accommodate for the influx of thousands of visitors within short periods. As the Bosch experts learned, the multi-purpose character of VTB Park leads to an equally wide range of different security needs among its users.

Video Analytics

Catering to the video security needs, Bosch installed a total of more than 2,000 video cameras, fixed as well as moving cameras, both indoors and outdoors, to safeguard the vast perimeter of the Arena Park premises and secure the homes and offices. One of the camera types installed for perimeter protection is the Autodome IP starlight 7000 HD. This high-definition camera offers excellent low-light performance thanks to starlight technology and also features built-in Intelligent Video Analytics. The video analytics function automatically detects deviations from standard moving patterns, like a person entering a restricted area, and triggers an alarm that is sent to the control rooms where security staff can then zoom into a scene for closer investigation. As required by the VTB Arena, all 2,000 cameras and video storage on Bosch recording units are managed centrally via the Bosch Video Management System (BVMS).

Another particular challenge consisted of aligning the three different access control systems of the stadium running at the same time. The ticketing system is the first layer of access control, managing the turnstiles that permit entry during events for thousands of visitors with paper tickets. This access control system needed to integrate with the employee access control system that relies on proximity cards (the Access Engine provided by Bosch), as well as a third, offline access control system used at specific stadium facilities. As the Bosch experts in Moscow found out, such an integration was without historic precedent. Because no standard solution existed, the team devised a highly customized set-up managed centrally on the Building Integration System (BIS) from Bosch.

Complex Integration

"We were fully aware that the multifunctional character of the VTB Arena Park would lead to complexity that could hardly be topped. We needed integration power, a partner who knew how

Bosch installed more than 2,000 cameras to safeguard the vast perimeter

to bind all loose ends into one solution that had never existed before. Creating this one integrated security system catering to all the various purposes has made Bosch our main security partner," said Alexander Kravchenkov, Deputy Head of Security Systems Maintenance Group IT Department at VTB Arena.

CONTACT
Bosch Building Technologies
Grasbrunn, Germany
www.boschbuildingtechnologies.com

With a gaming area that is almost as wide as four football fields and maintained by over 2,500 employees, it is a high-maintenance job to expose scammers and more importantly to keep visitors and staff safe in the Montréal Casino

SPECIAL FOCUS CASINOS

Possibilities in Casino Surveillance

Taking a Closer Look at Casino Installations with Genetec

Casinos and gaming establishments tricky environments to secure. These facilities are usually open to the public, at all hours of the day and night, and large sums of cash are carried across their floors by staff and patrons. Analyzing gaming behavior at tables and determining cases of internal theft keep surveillance teams alert, but most importantly, their job is to ensure the highest levels of customer satisfaction. When customers are happy, they keep coming back.

While unified security investments can help enhance the effectiveness of surveillance teams, the Genetec Security Center platform is engineered to do more. Here are a few real-life examples of how Security Center is used for security and operational benefits of casino customers.

Montréal Casino

On a recent visit to the 'Casino de Montréal', GIT SECURITY saw for itself over 5.2 million visitors per year are kept safe with the help of the Genetec se-

curity system. Located directly opposite the 'Vieux-Port', the Old Port, of Montréal in the midst of an island in the Saint Lawrence river lies the center of gaming and money: The Casino de Montréal. Over a total area of 61,116 square meters, it features all forms of gambling, a multifunctional hall for shows and various events, as well as restaurants and bars. A place to enjoy the pleasures of life and leave all cares behind. To maintain a carefree atmosphere, the security set-up needs to run in all areas, discrete, yet highly functional at all times. Daniel Couture, Head of Investigation and Surveil-

lance Operations, and Claude Laramée, Technical Security Supervisor, are the faces behind the impeccably smooth-running Security Operations. The gaming area of the Casino in Montréal is open 24 hours a day, seven days a week. With a gaming area that is almost as wide as four football fields and maintained by over 2,500 employees, it is a high-maintenance job to expose scammers and more importantly to keep visitors and staff safe. According to Genetec, there are 1,600 security cameras that guard 3,000 doors, including 40 cameras with automated license plate recognition software.

Discreetly Handling Internal Theft Investigations at Casinos

With video linked to POS transactions, a surveillance operator can be alerted to suspicious register activity such as multiple 'comps' being issued within a specific time frame at a restaurant. Using a 'send task' feature, the operator can escalate the incident to the supervisor with associated video and metadata. The surveillance director can then discreetly put the employee on 'close watch', and launch a covert operation using camera blocking, restricting access to everyone else in the team. One click activates a tile recording feature that collects every morsel of evidence, from video to metadata. With satisfactory evidence, another click launches automatic storyboarding of the entire investigation. Various encryptions and watermarking help ensure the integrity of the data in the case.

Leveraging ALPR Data

After installing the AutoVu ALPR system, other Genetec gaming customers including the Montréal Casino began using ALPR data to track inbound customers based on the state registered to their license plate. When they realized a sudden and drastic decline from a specific zip code in the winter months, the casino looked into the issue. Soon after, they uncovered that a lot of the visitors were elderly patrons who were not willing to drive to the casino in snowy, slippery conditions. The customer decided to promote free bus trips to the casino, bringing happy customers back and capitalizing on the AutoVu ALPR data in a big way.

Casino in Sacramento

Located just outside Sacramento in Citrus Heights, California, Stones Gambling Hall is the first of its kind in the California gaming industry. This new premier card house is comprised of two licensed gaming establishments, namely the Tavern and the Saloon, within one state-of-the-art facility. Visitors to the casino are offered first-class card rooms for both blackjack and poker, as well as, many other exciting table games and a full-service bar and restaurant.

Over a total area of 61,116 square meters, Montréal Casino features all forms of gambling, a multifunctional hall for shows and various events, as well as restaurants and bars

The Challenge

At the start of the building's refurbishment, management of Stones Gambling Hall set very high expectations for the quality of construction, architectural design, and general amenity. These high-quality standards extended to the selection and installation of its security system. While both video surveillance and access control systems were required, management wanted to eventually add a license plate recognition system to monitor vehicles coming into their parking garage.

Results

Today, the security team at Stones Gambling Hall uses the Security Center Omnicast system to manage close to 200 network cameras inside and outside of the two gaming establishments. The Security Center Synergis system is being used to control access to 25 doors which lead to the back-of-house areas. Choosing an open-architecture platform gave Stones the ability to select its preferred video devices, door hardware, and card technology. According to Turner, 'The deep level of integration between video surveillance and access control, and the extent of time-saving functionality within this unified platform, has been a tremendous help to our team. Having the ability to view video alongside cardholder credentials and pictures makes it easier for the team to see who is accessing which areas of the site and to quickly respond to access-denied events within the platform.'

Secure real-time Monitoring

By deploying the system in a secure multicast environment, the response time of cameras and accuracy of PTZ controls is encrypted and incredibly fast. Management can view camera feeds or manage doors from their mobile devices using the Security Center mobile app. This helps them monitor incidents or verify jackpot wins from anywhere. "The synchronization between Active Directory and Security Center is seamless and makes my job of managing all access control credentials easier," said David Gray, IT Manager. "The reporting functionality is a timesaver when trying to find out who accessed which areas, and in pulling daily event lists and bookmarks such as Title 31," explained Turner.

Visitors to Stones Gambling Hall in Sacramento are offered first-class card rooms for both blackjack and poker, as well as, many other exciting table games and a full-service bar and restaurant

VIDEO SURVEILLANCE

Video Patrol

Dahua Technology Developed Mobile ‚Video Guards' with Complete Solution for a German Security Service Company

„The safety of others has always been a matter close to my heart", says Hans Wetzlar, Managing Director of Ihre Sicherheit Security Service in Bielefeld. It was out of this motivation that he founded his security company ten years ago. Together with his team, he ensures that visitors to events and trade fairs can move around safely. Mobile ‚video guards', using Dahua's powerful video surveillance technology, are now contributing to this.

The security center at Ihre Sicherheit Sicherheitsdienst-leistung Security Service in Bielefeld/Germany

Video surveillance is a new addition to the portfolio of security service providers. „This enables us to offer our customers a much wider range of services from a single source," says Hans Wetzlar: „Even the sight of a camera can deter potential perpetrators. The inhibition threshold increases. In our experience, this means less damage to property and less theft." And if someone dares, the course of events is completely documented. While searching for a reliable video surveillance system, the security expert quickly came across Kruse Sicherheitstechnik in Salzkotten. The idea to develop mobile ‚video guards' arose from this cooperation.

Motion Detected

The compact housing of the video monitor contains a great deal of technology: four high-reso-lution HD cameras are attached to the 6-meter-high mast, which can record a range of up to 200 meters using motion detectors. „When it comes to technology, we rely on Dahua Technology's products and solutions - and with good reason. The heart of this control station is the DSS server, which receives all the signals from the video trailers. The advantage over other providers is that Dahua Technology's licenses are provided free of charge - regardless of whether a 4-channel or a 64-channel recorder," says Tobias Vieth of Kruse Sicherheitstechnik.

Two different camera types are mounted on the trailers: two wide-angle fixed cameras and two Dahua Starlight series PTZ cameras that can zoom in to chosen objects. The Starlight series has very good night vision and a high-performance infrared illuminator, allowing people to be seen at up to 300 meters away.

Dahua Technology remains on a growth course in Germany, Austria and Switzerland with a comprehensive benefits program for its specialist trade partners. Reliable on-site support, permanent customer advisors, dedicated project support and technical support from Germany: the comprehensive services contribute to the fact that within a short period of time a three-digit number of specialist trade partners have decided to cooperate with Dahua Technology.

CONTACT
Dahua Technology
Dusseldorf, Germany
www.dahuasecurity.com

Panasonic
BUSINESS

RECOGNISES THOSE WHO DON'T WANT TO BE RECOGNISED

FacePRO™
Panasonic's world leading
intelligent facial recognition system

RECOGNISING FACIAL AGEING UP TO 10 YEARS

DETECTS PARTIALLY COVERED FACES

FACE ORIENTATION: ANGLED FACES
Horizontal range : ±45° Vertical range : ±30°

Ranked as the world's most accurate facial recognition technology*, Panasonic's world-leading FacePRO™ solution applies deep learning to achieve incredibly high-precision face matching.

The system provides a real-time processing capacity of up to 20 cameras per server and can execute high-speed searches to provide:

• High precision even in challenging environments

• Cost reduction through best shot feature and easy setup

• System expandability (up to 30,000 faces)

Add intelligence to your facial recognition.
Speak to Panasonic about FacePRO™ today.

Call: +44 (0) 2070226530

Email: info@business.panasonic.co.uk

Website: business.panasonic.eu/facepro

* In independent testing by NIST in 2017, the product achieved the highest level of facial recognition performance in the world in a comparison test.

A Better Life, A Better World

PERIMETER PROTECTION

The Invisible Guard

Reliable Detection of Intruders Thanks to Radar Barriers

The moats and walls of yore have given way to high fences and state-of-the-art security technology protecting properties, installations, or buildings. Modern security experts ascribe the different protective measures for restricted and hazardous areas to the field of perimeter protection. This includes, for example, the protection of critical industrial premises such as power plants, border security, securing open spaces or the surveillance of fenced-in areas, facades, and buildings. Besides physical barriers such as fences, staff members are usually deployed as well. However, the days when night watchmen once patrolled are long gone. Guards' tasks are now taken on by inconspicuous electronic helpers. The person on guard sits in the control room with surveillance monitors and waits for the alarm.

Sensors are an integral part of perimeter protection. In order to obtain as much information as possible about intruders as soon as possible, concealed, virtual barriers are installed in front of a critical area. A sort of invisible barrier that sounds the alarm when interrupted by a person. This way, the security guards are warned before an intruder makes it past the mechanical obstacle. The barriers secure a particular section, such as the entry area, or monitor one whole side of the fence.

Technologies such as cameras, radar, or infrared offer various solutions in terms of perimeter protection. Each technology entails different benefits and drawbacks. However, they all have the same goal: to minimise false alarms for the highest possible efficiency and maximum safety.

Infrared vs. Radar Barrier

One special application in perimeter protection is the electronic barrier. Here, infrared and radar technology has proven itself. When installed in a concealed manner, the virtual barrier is not visible to the human eye. Considerations must be made as to which technology is best-suited depending on the area of application. The general operating principle is the same for both barriers. In front of the area meant to be protected, a receiver is placed on one side and a transmitter is placed on the other in parallel. The transmitter continuously sends a signal to the receiver on the other side. As though an invisible cord were pulled taught between the transmitter and receiver. As soon as an object interrupts the signal, the security staff are informed.

Radar sensors are now very present in perimeter protection. Their benefits are particularly clear to see in outdoor use. They are considered to be a reliable and maintenance-free security technology, even under extreme conditions. After all, the system works with electromagnetic waves whose signal remains fully functional regardless of weather, light or temperature conditions. Dirt, dust, or sand do not disrupt the sensors or cause false alarms.

Radar barriers sound the alarm as soon as a person touches the electromagnetic tripwire and interrupts the continuous signal. The sensors thus also detect attempts to manipulate them by covering them up. Thanks to its long range, a radar barrier monitors very long distances.

Another advantage lies in its tolerance range with the transmitter and receiver set up in parallel. Contrary to the infrared light barrier, the electromagnetic waves do not run directly in a line, but rather in a cone shape, thus generating a wider detection area. An exact point-to-point alignment like for infrared barriers is not required.

The Problem of Interference

A challenge for radar barriers lies in potential interference with other radar products of the same frequency in the immediate vicinity. Innosent resolves this problem and offers a radar barrier with a modular frequency. Its configurability allows multiple virtual barriers to be placed next to each other, one above the other and at different heights, without causing interference signals. This feature also allows the installation of and combination with other radar sensors. They provide additional, useful information such as the direction of movement or speed and boost efficiency and response time.

In particular for the surveillance of open spaces or the protection of large building or industrial complexes, multiple products and technologies are
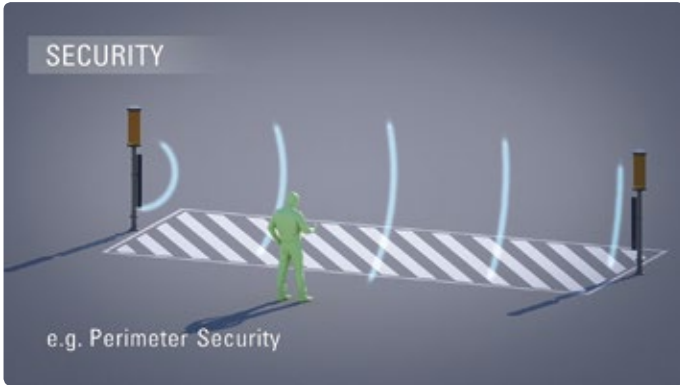
e.g. Perimeter Security

In front of the area meant to be protected, a receiver is placed on one side and a transmitter is placed on the other in parallel. The transmitter continuously sends a signal to the receiver on the other side…

e.g. Perimeter Security

… and as soon as an object interrupts the signal, the security staff are informed

combined in order to ensure comprehensive protection. The Innosent radar barrier boasts a range up to 300 metres. The product is flexible and can be used for smaller distances too. Its mobility and adaptability also enable it to be retroactively installed into an existing security concept. The area of application of the invisible guard spans high-security areas such as power plants, prisons, borders, and airports as well as industrial installations such as oil refineries or solar parks.

With regard to Industry 4.0, many additional applications for radar barriers beyond perimeter protection will arise in the future. The securing of autonomous machines is already a major task that makes use of invisible radar barriers. Thanks to its many advantages and greater cost-effectiveness, radar in its various forms is increasingly gaining a foothold within the security industry. Technological progress through the use of AI has many further intelligent and useful developments in store for us. Many companies will tackle the subject of radar technology over the coming years. It will soon prove indispensable to address this complex area in the field of security.

CONTACT
Innosent
Donnersdorf, Germany
Tel.: +49 9528 9518 0
info@innosent.de
www.innosent.de/en

VIDEO SURVEILLANCE

Outdoor Security

New Range of Accessories for the Synaps Network Interface Box

Do you remember? At the end of 2018, GIT SECURITY presented Synaps reporting on its success at the last Essen Security Trade Fair: An innovative factory-fitted outdoor box with 2- or 4-port switch plus uplink (2 Ethernet ports for the IP version), DC-UPS with Li-Ion backup (10-year lifetime) and secure data transfer. The solution powers video applications and network interfaces (e.g. WLAN, optical fiber), and guarantees protection against micro-interruptions and brown-outs.
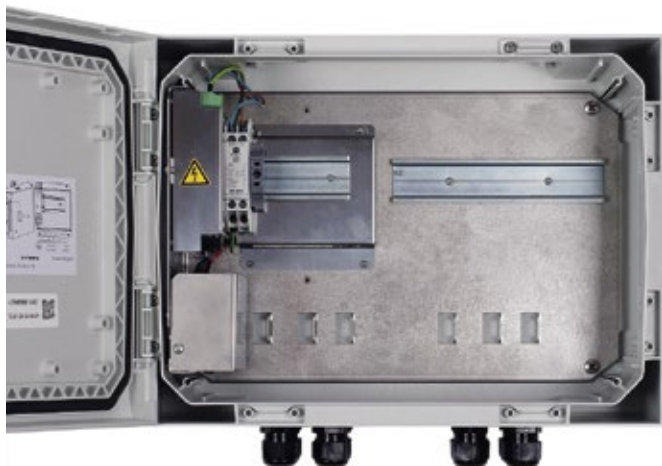
Synaps PoE Space Box (400 x 300 x 150 mm). Large cabinet version with more space for accessories and customer equipment.

Synaps closed in the compact box

Synaps IP 24V (200x300x150 mm). An optional 2-port fiber-optic converter from the Slat range of accessories has been included here for an application in outdoor video surveillance

Since its market launch, Synaps all-in-one has been successfully installed in many situations, such as for video surveillance of car parking lots, company or industrial compounds, logistics centers and customs borders. Moreover, for perimeter protection, license plate recognition, IP-controlled outdoor loudspeakers, urban water and electrical control systems.

To multiplicate the fields of application Slat recently introduced its range of matching accessories dedicated to fit into the customer space inside the box. Customers can choose the components needed to build their own configuration either in a standard box or in a bigger space box. Today, fiber-optic converters, PoE and Hi-PoE injectors, voltage converters, coaxial extensions and multi-port switches are available. Projects with different voltage and network interface types can be realized, and this in a wide temperature range (from -40°C to +50°C ambient temperature). All these accessories work with small power consumption keeping a maximum capacity for the customer equipment. And naturally Slat guarantees their conformity, tested and validated by the company's engineers. It is a reliable add-on system that will meet another user benefit with the introduction of „modular Synaps" in the near future . Then the customer will not only choose his box version plus accessories, but also will receive the fully assembled box from the factory, including the CE label.

A perfect solution for installers if you consider how much time and money could be saved in terms of engineering, ordering, assembling and compatibility testing. All in all, Synaps offers a real value-added solution on each project level.

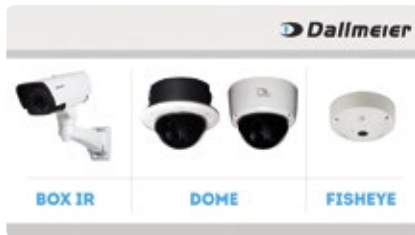## Camera Series with H.265 HEVC and AI-supported Object Classification

The Dallmeier 5000 series single sensor dome, IR and fisheye cameras support H.265 HEVC (High Efficiency Video Coding) and offer improved object classification with camera-based, AI-enhanced VCA. The H.265 encoder reduces the data rate by up to 50% compared to an H.264 stream without sacrificing resolution or image quality and a significant reduction in network and memory capacity can be achieved. Neural networks are implemented in the camera, supporting the classic Video Content Analysis (VCA) and thus enabling significantly more efficient object classification in the camera itself. After a short learning phase, the system is capable of delivering more precisely defined recording analysis and more effective use of automatic video analysis functions. The camera models DDF5250HDV-DN and DDF5450HDV-DN (dome), DF5250HDV-DN/IR and DF5450HDV-DN/IR (box IR) and SDF5450HD-DN (fisheye) can be ordered now for delivery as from August 2019. **www.dallmeier.com**

VdS 2-Star Certified App for an Electronic Locking System

The new Eniq App from Dom manages the manufacturer's digital locking cylinders, fittings, wall readers and persons via a smartphone. The complete system can be managed locally, without using a cloud system on the administrator's smartphone. In a matter of moments, access authorizations with individual time restrictions to persons can be allocated and transponders assigned to them via the NFC interface. Dom locking devices can also be furnished with the latest access authorizations just as quickly. An upgrade function up to Eniq Access Management software allows for the growth of a property's access system. The app can run on Android smartphones from version 5.0 with an NFC interface and can be found in the Google Play Store by holding the master card in front of the smartphone's NFC interface. Up to 500 persons and transponders as well as 100 devices can be managed and 100,000 access events saved with the app. **www.dom-group.eu**

PIN Locking Function for Private Offices

Assa Abloy's Code Handle has a PIN function and, as banks and credit card companies will confirm, PINs protect. Expecting everyone to keep sensitive rooms locked, and look after the key-carrying and tracking that goes with it, is unrealistic. The simple, secure and easy-to-fit handle works with the existing door lock with no need to change the lock mechanism; the existing handle is just replaced to add PIN security to an office door. There is no wiring, no access control system and no need for cumbersome physical keys. Two screws fit the handle to almost any interior office, meeting room, archive or storage room door. Press a 4-digit code on the built-in electronic PIN pad and the door opens. The handle comes in a clean, elegant design in low-profile brushed stainless steel and satin-chromed zinc. Available in left and right-hand versions, it is fire tested and ensures free exit from the inside the room. **www.assaabloy.com**

Wireless Access Control for Sensitive Areas

Managers at South Denmark's Syrenparken mental health treatment facility no longer had a trustworthy overview of all their physical keys in circulation, yet to serve the people treated there, Syrenparken must store medicines and psychotropic drugs. Syrenparken has now installed the SMARTair wireless access control system from Assa Abloy to meet all their security needs. It is critical only trusted personnel gain access so, as part of a modernization program, it was decided to upgrade on-site access control, replacing old-fashioned keys, which can easily be lost. To date, 143 wireless locking devices are fitted on resident bedrooms, as well as doors to offices, the medicine room and storage for patient records, plus other confidential areas. Staff and residents open doors with a standard, programmable MIFARE credential. Instead of a bundle of keys, each employee now has a key-card encoded with access rights to the exact areas they need. **www.assaabloy.com**

Mobile Access with NFC and BLE

The next level in lock engineering for architecs and designers, Ælement Fusion, is packed with innovative features including a JustIN Mobile application for mobile access with NFC and BLE engine, Salto BLUEnet wireless technology for real-time access control management and the Salto Virtual Network (SVN) data-on-card technology. Salto's new Ælement Fusion is an electronic lock with a sleek round reader that eliminates lock hardware on the door by encasing all electronic components inside the door itself, making security virtually invisible. The Ælement Fusion is Salto's latest evolution in smart door lock engineering that increases security, improves operations and enhances décor. The AElement Fusion is compatible with RFID and BLE (Bluetooth) technologies that integrate seamlessly with mobile applications including Salto Systems' JustIN Mobile. Providing a minimalistic design that blends in with any door décor, the Ælement Fusion's small, customizable light ring reader (available in Black or White) offers a discreet electronic lock for architecs looking to deploy electronic access control with a stylish, yet technologically-advanced solution. Salto offers a variety of door handles and finishes to complement any door style. By offering both DIN and ANSI compatibility, the AEement Fusion can be implemented virtually in any type of doors making it an ideal solution for doors that require additional security. "For more than a decade, our intention has been to create an invisible electronic smart door lock. The Ælement Fusion is the realization of that vision," said Marc Handels, Salto Systems CMSO. **www.saltosystems.com**

© agcreativelab - stock.adobe.com

Touch of Glass

Optex's LiDARs provide intrusion detection around glass facades, panels and partition walls

Glass panels are increasingly used in new buildings but also in the refurbishment of old buildings as an unobstructed way to allow natural light to come through and create a brighter, indoor environment. They are not only used for the outside of the building but also inside as partition walls, particularly in public buildings such as museums, big retail shops on the high street or at large transportation hubs such as railway stations or airports. Combining aesthetics with security, however, can be a challenge.

Redscan systems creates a virtual detection area

This is where LiDAR technology can be an ideal solution as it creates a virtual detection area – which could be a virtual wall or a virtual plane that cannot be seen by the human eye and will be unobtrusive. Across Europe, efforts are being made to regenerate city centers and make high streets more appealing. Shop windows are getting larger, they remain lit after the shop has closed and retailers are using punched or clear view shutters to enable passers-by to see inside at any time. Due to the shape of certain building facades or glass panels, there is sometimes the necessity to install the shutters behind the glass window. Glass break detectors may not work for bespoke glass panels, so it is important to find another way to detect if an intruder has broken through the glass and is accessing the shutter. As the space between the window and shutter is often extremely narrow and confined it is very difficult to find a suitable intrusion detection technology.

The Optex Redscan RLS-2020 creates a virtual curtain or vertical wall that can protect the whole area between the glass panel and the shutter and will detect anyone who has made it through the window, preventing any further loss or damage. It could trigger a fogging system to slow the intruders while a security team is responding, or DNA tagging system to help find the culprit. In the last few years, the short-range LiDAR has been successfully installed in a number of large flag ship stores in Germany.

Protecting Glass Facades
Increasingly, office and government buildings feature large, glass facades. Traditional window contact sensors or glass break sensors are not suitable for large facades, so another way to detect intrusion needs to be implemented. This is an ideal application for an Optex LiDAR sen-

The RLS-2020 series provides 95 degree and either 20x20m or 30m radius detection range

sor (short-range), which can provide 20x20m protection – enough to protect a large facade on its own.

If the building is located in a public area i.e. along a public street, the sensor can be located inside and create a virtual curtain of protection just behind the glass. If the building is located in a secure area with no authorized public access, the Redscan can be placed outside and act as a warning system should anyone be next to the facade.

In both scenarios, using the configuration software to create different detection zones (up to 4), the Redscan sensor can trigger indoor or outdoor cameras to the exact area of intrusion to provide the security staff with a clear image of what is happening, and who is entering the detection zones.

Optex offers a variety of short-range and long-range LiDARs. The Redscan RLS-3060 series features 180 degree and up to 100m detection range, while the Redscan RLS-2020 series provides 95 degree and either 20x20m or 30m radius detection range and PoE connectivity.

Detecting Thrown Objects

In airports or international railway stations with secured controlled areas, it is crucial to prevent people or objects going from the non-secure area to the secure area. With modern, open designs, those areas are usually separated by partition glass panels or walls that do not reach all the way to the ceiling, leaving a gap where objects can be thrown or people can climb over.

So not to alter the vision of the architects and add nets or other non-aesthetically pleasing physical security solutions, a virtual detection solution is required. The speed and size of a thrown object can make it

very difficult for an intelligent camera system to detect, even with very high performance analytics. However, the Optex Redscan sensor set to high sensitivity mode is able to detect a thrown object even as small as a USB key. When used with video management systems that have integrated the X/Y coordinates provided by the sensors, the exact point of detection can be mapped and associated to the cameras monitoring this area. With the right algorithm, the system could

potentially calculate where the object was thrown from to quickly narrow down where the culprit was standing.

CONTACT
Optex Europe Ltd.
EMEA Headquarters
Berkshire, United Kingdom
Tel.: +44 1628 631 000
marketing@optex-europe.com
www.optex-europe.com

The Smartphone as Remote Control

Could you do more with your phone? When it comes to access control, you certainly can, in business and at home. It's a calendar and a credit card. We book holidays and do our daily banking. With video calling technology, we can even be in two places at once, or make it seem that way. There appears to be untapped potential in using mobile phones for access control. We seem to use our smartphones for everything, yet mobile phones are actually under-utilized when it comes to building security and access management. Evolving technologies now enable us to manage access rights via mobile phone apps, open a door with a virtual key credential, and much more. At the new Arkansas State University campus in Mexico, students and staff now have no access cards to collect or validate. Every site user installs and validates their own 'Openow' app and collects keys virtually. Users can unlock the Aperio wireless locks with a Seos mobile credential. **www.assaabloy.com**

Video Badge for Policing

Edesix launched its latest VideoBadge, the VB-400. The VB-400 will be predominantly aimed at the policing and security sectors, where officers on the front line utilise BWCs to help prevent both criminal and anti-social behaviour when out on patrol. Additionally, the captured footage not only provides greater transparency of interactions with the public, but also significantly increases early guilty pleas when used in a prosecution. This latest Body Worn Camera from Edesix has been designed to be a simple, unobtrusive addition to any uniform. The VB-400 has a market-leading IP67 ingress protection rating and delivers full 1080p HD recording capabilities to capture evidence-quality footage, Bluetooth sensor monitoring, and built-in GPS functionality which will greatly simplify camera asset management across large estates. Other features include a full-shift battery life, Wi-Fi streaming, 120-degree horizontal field of view and haptic and audio feedback alerts to show when recording has been activated. **www.edesix.com**

Mini-Dome Cameras with Smart Wide Dynamic Range

Johnson Controls has updated its Illustra Pro camera family with a new generation of Mini-Domes featuring Smart Wide Dynamic Range. Together with a choice of 2, 3, 5 and 8 megapixel models and a variety of lens options, the Smart WDR technology built into the cameras greatly improves the quality of images captured in varying lighting environments. By continuously analysing the scene, Smart WDR automatically adjusts tone mapping intensity and optimises image quality by enhancing darkened areas, without oversaturating brighter areas. Video Intelligence Analytics means users can offload analytic streaming from network video recorders to the edge, saving time and resources. Setup times are also reduced with the addition of configuration profiles, such as Auto, LPR, Casino, Indoor, Outdoor, Shutter Priority and Iris Priority, where camera settings are automatically adjusted based on the environment, with a simple click of a button. **www.johnsoncontrols.com**

Management of Large Surveillance Camera Networks

Qognify has launched Umbrella, a web-based management platform that leverages significant cost savings by managing large, distributed video surveillance systems centrally in the cloud. Altering the configuration of multiple sites is time-consuming, and monitoring the health status of all servers and cameras across every location is a challenge. The web-based Umbrella management solution, which is fully integrated with the company's Cayuga video management software (VMS), can be hosted in the cloud (including Microsoft Azure and AWS) as well as on premise. It provides a consolidated view of all servers and cameras across every connected installation, highlighting those that require attention. If any company-wide changes are required on how the video system operates, for example caused by changes in regulations such as GDPR, they can be configured and rolled-out remotely. The product is suited for organizations that operate large-scale branch networks with hundreds of sites and thousands of cameras. **www.qognify.com**

Two-Channel Multi-Directional Camera

The latest addition to the Wisenet P camera series, manufactured by Hanwha Techwin, offers two video surveillance cameras in a single housing. The 2 channel multi-directional Wisenet PNM-9000VD camera, which features a modular lens design and a suite of built-in video analytics, is able to capture 5MP images of adjacent areas with the help of two separate lenses. Depending on the field of view required, 3.7, 4.6 or 7mm lens modules are available separately, and can be easily fitted on site by system integrators. The multi-streaming camera significantly reduces the costs normally associated with installing two separate cameras to cover, for example, an L-shaped area or two sides of a building. The camera only needs a single IP address, even though it has two camera channels. With only one Video Management Software (VMS) license required, this further reduces the cost of ownership, as does Power over Ethernet (PoE) support, with no need for power supply cabling. **www.hanwha-security.eu**

Multifocal Sensor Technology Now Integrated

With the integration of the Dallmeier Panomera systems into the Genetec Security Center version 5.7 SR4 or higher, the special camera functionality is now available to users of the unified security platform for the first time. This provides completely new options for observing and monitoring expansive areas. The Panomera multifocal sensor systems have allowed customers all-encompassing monitoring of wide areas since 2011. The integration requires only a regular Genetec camera license. The camera system intelligently stitches the images of up to seven detail sensors and one overview sensor into an overall picture in a single camera system. In contrast to traditional solutions, such as combining megapixel and PTZ cameras or multi-sensor systems, all areas of the entire scene are comprehensively monitored in high resolution. Operators are able to zoom into multiple areas at the same time while the high-resolution display of the overall action continues to be maintained. **www.panomera.com**

KNOW-HOW IN
SAFETY
by GIT SICHERHEIT &
PHŒNIX CONTACT

Focus Topic

Safety meets Security

Carsten Gregorius, Senior Specialist Safety

The importance of the safety technology installed in machines and systems steadily increases over the entire life cycle of the application. As networking of automation systems with the IT world is becoming more and more commonplace, scenarios are likely to arise where a different approach is required, especially for safety applications. The network interfaces between office IT systems and production networks represent a significant gateway for hackers. The worlds of "Safety" and "Security" meet when automated solutions for implementing functional safety become the target of hackers. A common strategy must therefore be developed in future.

Cyber security vs. Functional Safety

The aspect of functional safety refers to the safety component of a system that relies on the correct function of the safety-related control system and other risk-reducing measures. In this case, the controller performs the task of initiating the safe state when a critical error occurs, e.g., a short circuit. The requirements for the quality of safety-relevant control components are described in the B-standard EN ISO 13849 and the IEC series 61508/61511/62061. Depending on the degree of risk, corresponding risk-reducing measures are classified into different safety levels: Performance Level (PL) or Safety Integrity Level (SIL). In contrast

to functional safety, cyber security protects goods from detrimental impairment as a result of intentional or inadvertent attacks on the availability, integrity and confidentiality of the data. This involves the use of preventative, technical, and organizational measures.

Pragmatic Approach in acc. with NAMUR Worksheet

To safeguard the product life cycle of safety-oriented systems or components, manufacturers, system integrators and operators are required within the scope of "Functional Safety Management" to adopt an approach to quality management that reflects the requirements of the situation in accordance with IEC 61508.

The worksheet published by NAMUR (User Association of Automation Technology in Process Industries) entitled "Security Risk Assessment of SIS" (Safety Instrumented Systems) adopts an initial pragmatic approach to interlinking safety and cyber security in process control engineering (PCE). It describes an IT risk assessment method which uses the IEC 62443 security standard as its starting point to provide a basis for increasing the capability of the PCE safety equipment of averting IT threats. To this end, a process was developed in the first phase as a one-off example of processes typically found in the chemical industry. This allows the users to gauge the usefulness of the method

for their PCE safety equipment to be assessed. The second phase monitors implementation of the measures and documents the IT security requirements. This step must be carried out individually for all items of PCE safety equipment to be evaluated.

More information on the topic of Safety meets Security can be found under:

**phoenixcontact.com/
safety-meets-security**

**Author:
Dipl.-Ing. (FH)
C. Gregorius**,
Senior Specialist Safety,
Phoenix Contact
Electronics GmbH,
Bad Pyrmont

CONTACT
Phoenix Contact GmbH & Co.KG
Blomberg, Germany
cgregorius@phoenixcontact.com
www.phoenixcontact.com

AUTOMATION

Simplifying Connectivity for Mass Customization

Simpler IT-OT Security Collaboration Facilitates Mass Customization

Secure remote access and a holistic approach to network security for interconnected industrial control, IT, and OT subsystems are essential to achieve uninterrupted mass customization in a fully automated manufacturing process.

Mass customization which entails leveraging flexible computer-aided systems to tailor production output on a large scale has emerged as a key strategy for helping manufacturers maintain market share in the age of Industry 4.0. These flexible manufacturing systems allow output to be customized at item level on a massive scale. What's more, mass customization allows manufacturers to shift their business from supply-oriented to customer-oriented, with additionally saving time in their supply chain. Within this context, data integrity and consistency are imperative to ensure smooth operations and on-time deliveries.

In order to further reduce system downtime in a fully automated mass customization manufacturing process, it is necessary to be able to efficiently upgrade, troubleshoot, and maintain many connected devices from both control and produc-

tion systems remotely. This could be challenging to implement for the industrial control system users. Additionally, with more IT systems being connected to industrial control systems (ICS), manufacturers also need to protect newly interconnected machines and industrial subsystems from internal and external threats. Find out how to resolve these two challenges to ease your way to connect to mass customization.

Establishing Multiple Secure Access Is Time-Consuming

Remote access allows users to administer and even control machines within a corporate network from distant field sites. Granting remote access to multiple devices offers many benefits for manufacturers, such as the ability to monitor multiple plants without the need for travel or on-site staffing. Upgrades and troubleshooting can also be

performed from afar, which can reduce the cost and time needed for maintenance and keep system downtime at bay. In fact, "60 to 70 percent of machine problems require a simple fix, such as a software upgrade or minor parameter changes – which can be done remotely" (Plant & Work Engineering Magazine). Although virtual private network (VPN) and remote desktop connection (RDC) technologies are commonly used methods for granting remote access to company machines and equipment from field sites, a number of problems are associated with VPN or RDC deployments for large-scale manufacturing applications.

VPN Issues

Deploying a large-scale VPN requires extensive IT knowledge and skills to establish encrypted layered tunnelling protocol connections. In order to secure the private connections that allow remote

VPN Issues

RDC Vulnerabilities

A number of problems are associated with VPN or RDC deployments for large-scale manufacturing applications.

Smart Home on App

With Ksenia's Lares 4.0 app users can safely monitor their home, office or business site any time. All security related aspects are under control by using this single app — including intrusion detection, video surveillance, and access control). Simultaneously the app can be used to manage home automation and building management systems. Users can choose and handle certain scenarios, manage push notifications, set up his favourite elements, easily all by himself. The initial screen quickly and intuitively delivers all of the most important information on the system's status, including weather conditions and temperatures. Five shortcuts can be set up. By simply scrolling to the right or left the desired section can easily be accessed. Navigation within the selected section is done by scrolling up and down. For each installed device there is a corresponding virtual card in the app. Each group of devices is associated with a virtual room, making the system very intuitive to use. The Lares 4.0 App has been designed to be used by any mobile device.

www.kseniasecurity.com

users to access enterprise resources and applications, user authentication methods, including passwords and certificates, also need to be used and properly managed. All of these requirements can make VPNs especially time-consuming and costly to deploy at a large scale.

RDC Vulnerabilities

Although it is generally easier for remote desktop applications to enable simple one-to-one remote control of corporate desktops from another computer over the Internet, RDC applications also need to bypass certain corporate security policies. This allows malicious actors to exploit seemingly legitimate remote desktop sessions to gain unauthorized access or control company resources. In large-scale networks, the risks are compounded by the number of remote desktop connections.

Simplify Large-Scale Secure Remote Access

Moxa Remote Connect (MRC) provides an easy-to-use, secure, and flexible cloud-based solution for large-scale remote access. MRC is perfect for large-scale deployments because it only requires three components — the MRC gateway, a cloud server, and client software for both desktop and mobile devices — to enable users at remote field sites to securely access and control computers,

machines, and other industrial equipment located within the factory environment.

Ease of Use

MRC provides plug-and-play remote access without the need for complex technical configurations. The remote access connection is centrally monitored and managed from a secure cloud server, and virtual IP addresses make multipoint remote access effortless by eliminating the need to manually reconfigure IP addresses for field devices.

Enhanced Security

MRC protects against man-in-the-middle attacks, data loss, and other security threats by providing VPN-based point-to-point encryption. With MRC, companies can grant on-demand remote access and control that conform to their existing IT security policies and enable remote connectivity without having to compromise network protection.

Flexibility and Scalability

MRC allows users to remotely access and control equipment, as if they were locally connected, in different connection scenarios, including one-to-one, one-to-many, many-to-many, and site-to-site. What's more, the MRC client software can be installed on any laptop of an authorized maintenance engineer, allowing for even greater flexibil-

MBeg+ Control Unit

Geutebrück has introduced their MBeg+ control unit to the market. It provides an individually configurable multi-touch color display and sixteen individually programmable function assignments of the key buttons. The three-axis joystick to the right has a built-in zoom/focus function, while the jog shuttle to the left allows simple navigation through video footage. The company is first releasing a firmware that is MBeg/GCT compatible and that will prepare customers for migrations from Geviscope and G-Core. The second step is the integration into the G-SIM software, which provides numerous additional functions. In early 2020, the multi-touch display will be equipped with additional control options as well as access to cameras, tours and maps, and the processing of alarms. The new device requires Power over Ethernet or USB. The additional jog makes the new device (382mm x 160mm x 68mm) only slightly larger than its predecessor and allows it to be installed conveniently in tabletops.

www.geutebrueck.com

Moxa Remote Connect (MRC) provides an easy-to-use, secure, and flexible cloud-based solution for large-scale remote access.
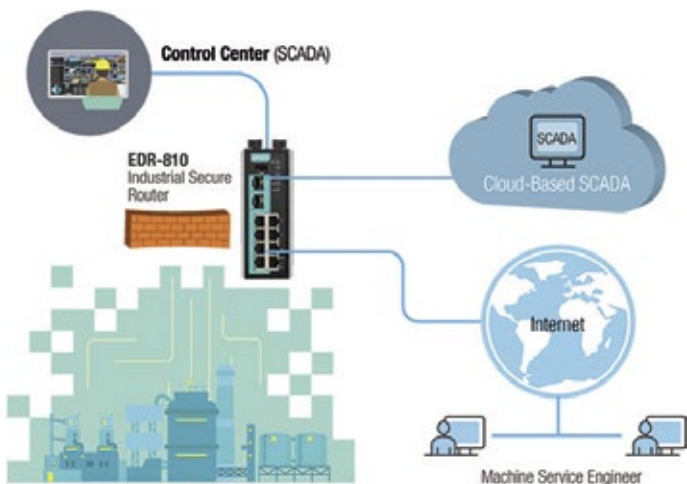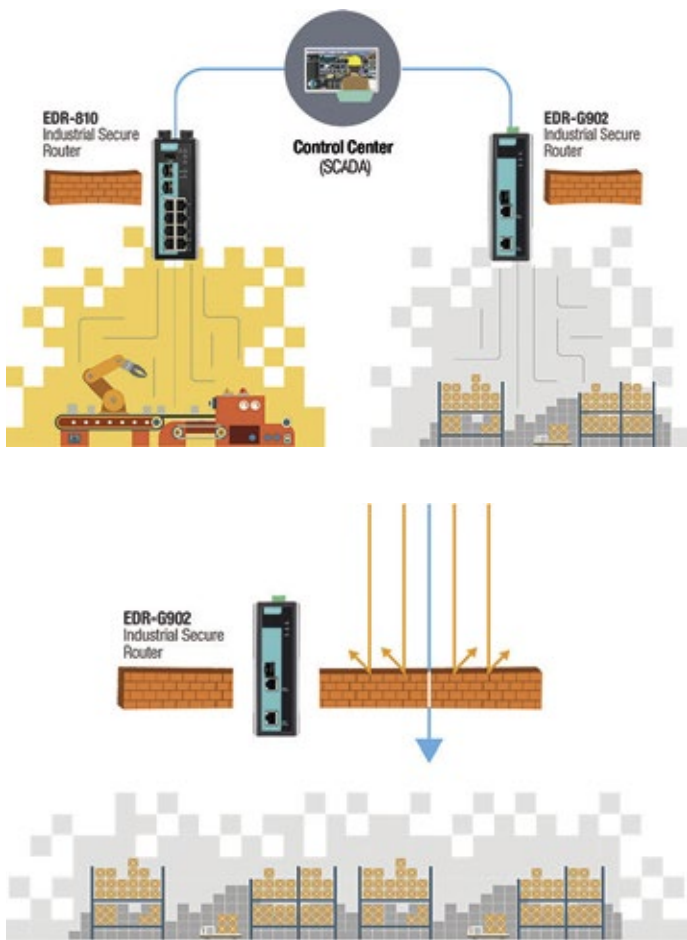
Moxa's defense-in-depth protection for industrial control systems covers network segmentation, secure data communication and filtering, and secure remote access.

Moxa's MXview network management software provides visualized management for security auditing and monitoring.

ity when controlling remote desktops, upgrading equipment, or programming PLCs from afar.

Overcoming Security Silos for Interconnected Systems

Traditional industrial control system (ICS) networks are physically isolated and not directly connected to the Internet. Although isolated networks are relatively immune to cyberattacks, fully automated mass customization requires interconnected systems that may be exposed to internal and external threats, presenting new challenges to existing IT and OT teams. Technologies and practices used by IT and OT were originally designed for different purposes, and information silos between these disciplines are common. Besides breaking down the barriers between these disciplines, manufacturers face a number of challenges when it comes to securing newly interconnected industrial control systems and converged IT-OT subsystems.

Single point of failure: A chain is only as strong as its weakest link. Connecting formerly independent systems to the Internet exposes ICS networks to new cybersecurity risks. Legacy ICS networks often still lack systematic security protection because their former isolation provided a degree of immunity from network threats. Once connected to the Internet, their vulnerabilities could be easily exploited to undermine overall system integrity.

Inexperience: Integrating IT and OT requires IT system know-how and OT domain knowledge. New security technologies may inadvertently affect IT, OT, or both landscapes, and lead to disruptions in the production line if both sides of the equation are not sufficiently prepared.

Internal risks: Even after converging IT and OT subsystems, information silos may persist and manifest themselves as interferences or communication failures when multiple domains or subsystems are involved in a process or task.

Simplify IT-OT Security Collaboration

Moxa provides a triple-layer security architecture that allows IT and OT departments to deploy a complete cybersecurity infrastructure that collaboratively incorporates company-wide security policies, operational risk management, and asset performance. Rest assured that your interconnected and Internet-connected ICS networks are safe with Moxa's cybersecurity protection based on ISA 99/IEC 62443 standards.

Security management: Moxa's MXview network management software provides visualized management for security auditing and monitoring. The Device Inventory Report allows you to automatically discover and track the devices on your network. If devices are compromised, you can use the Configuration Center and ABC-01/02 Backup Configurator to back-up and restore configurations. You can also use the Security View or Security Wizard to check if device settings meet your company's security policies. What's more, the Real-time Security Events & Logging function and SNMP & RESTful API Northbound Interface allow you to log events to monitor security policy breaches.

Secure network infrastructure: Moxa´s Industrial Secure Routers with defense-in-depth protection for industrial control systems cover network segmentation, secure data communication and filtering, and secure remote access. By using industrial firewalls to segment the network into secure cells or zones, or using network address translation (NAT) feature and private IP address ranges, you can prevent breaches from crashing the whole system. Additionally, you can use industrial firewalls and switches that support Modbus TCP deep packet inspection (DPI), DoS protection, and access control lists (ACL) for secure data communication and filtering. For secure remote access, over public Internet connection, Moxa EDR series (Industrial Secure Routers) supports IPSec and OpenVPN protocols.

Author

Ivana Nikic, Product Marketing Engineer – Industrial Ethernet

Wireless Alarm System

The Secvest Touch wireless alarm system's control panel features an elegant touchscreen, capacitive user interface that can be backlit constantly or only when touched. An integrated light sensor ensures that the backlighting adjusts dynamically according to the lighting conditions. This ensures optimal readability of the display at all times, regardless of the lighting conditions. The alarm also features a cleaning mode, which allows the cover to be cleaned without accidentally triggering or setting off other functions. In addition to classic alarm functions for protection against intrusion, fires, flooding and emergencies, the system allows electronic access control systems to be integrated directly into the alarm system. This enables users to completely monitor all movements in the building at any given time. Live video verification is also possible and up to six IP cameras can be integrated into the system, with live streams visible at any time using the app. An integrated telephone dialer can be activated if required and email notification given of alarm situations. Up to 48 individually identifiable wireless detectors and four wired detectors allow for flexible system expansion as needed. The wireless alarm system is very easy to install and components can be easily configured using the integrated web browser.

www.abus-sc.co.uk

High Security Cylinders

CES UK have developed a lock cylinder that is not a stand-alone product, but rather a technical feature that is available across the product range. It meets the TS007 3-Star Standard for Cylinder Locks with Kitemark Approval, offering protection against attacks where a burglar might attempt to break off or 'snap' the cylinder lock. A predetermined breaking point and a sophisticated locking mechanism ensure that even after the cylinder body has been snapped on the outside, the attacker cannot gain access to the cam. While on the outside, the rotating mechanism is blocked, the lock can still be locked and unlocked from the inside using the key or knob, depending on the variant used. This is particularly important for emergency situations such as fire. As standard, the front part of the cylinder is provided with anti-drilling, anti-pulling and anti-bump technology. In addition, the section between the predetermined breaking point and the cam is protected against drilling by hardened metal elements.

www.ces.eu

Facial Recognition Integrated into Software

German manufacturer Dallmeier has announced a development partnership with Anyvision – a specialist company for AI-based facial, body and object recognition – with the aim of integrating Anyvision's facial recognition technology into the Dallmeier Hemisphere software platform that offers customers from various industries a wide variety of modular solutions for security applications and business process optimization. This enables functionality such as blacklist/whitelist procedures, marketing optimization through VIP-customer recognition, forensic evaluations in law enforcement procedures or the automation of access control in office or manufacturing environments. Anyvision's software is plug-and-play for new and existing systems, and able to overcome challenges such as occlusions, different angles of view and poor lighting conditions. The company currently develops technology for security and surveillance, mobile authentication, access control and real-world analytics.

www.dallmeier.com

Access Control Using Software as a Service

The Cliq Software as a Service (SaaS) solution from Assa Abloy is a mechatronic locking system which combines the strengths of high-end mechanical and electronic security. Physical security is maximized with a range of electromechanical cylinders and padlocks, operated with intelligent, programmable, battery-powered keys. The intuitive Cliq Web Manager software supports efficient workflow management, allowing specific locks to be filtered according to needs. Individual schedules can be created for users, doors or audit trails. With a few clicks, a key or system can require regular key revalidation, making it much safer to issue time-limited access to contractors or visitors. The software works securely to help administer access control in the most efficient way for a site, in a self-managed IT environment or with the company's Cliq SaaS product. The solution has complete redundancy in data storage, helping to meeting compliance requirements.

www.assaabloy.com

Camera System Confirms Identity of Juventus Fan

On 3 May 2019, during a football match in Turin, a Juventus Turin fan made an offensive reference, with outspread arms imitating an airplane, to the victims of the Superga plane crash of 1949 in which eighteen players of local rival FC Turin lost their lives. Juventus officials were able to identify the man in video recordings soon after the match ended. Crucial evidence for the identification was supplied by the patented Panomera multifocal camera systems from German manufacturer Dallmeier. The systems permanently deliver a complete recording of everything that happens with a defined minimum resolution density, even over very large surveillance areas. At the same time, the cameras are also capable of zooming in on any detail of the entire scene in high resolution – both live and in the recording – and so assist in the identification of individuals with evidence admissible in court. The suspect on the video has been banned from the stadium for five years, and the video material passed to the police to assist with further prosecution.

www.dallmeier.com

From Forty Keys to One Key

One French town just north of Paris faced familiar key management challenges: each person in their Municipal Technical Center had to carry approximately forty physical keys. If a single key was lost or stolen, all compromised cylinders had to be changed. To prevent unauthorized access, all the keys had to be replaced too, at great expense. Key duplication costs were between €3,000 and €4,000 for changing the cylinders and replacing the keys. To fix their expensive problem, Villiers-le-Bel city administrators combined Abloy's mechanical Protec2 and Cliq electromechanical locking within the same flexible, key-based access control system. Almost 500 Cliq wireless cylinders, 850 programmable, battery-powered keys plus programming devices and wireless padlocks have been deployed in the upgrade program. Authorized users now carry a single, programmable, battery-powered key on which all their individual access rights are stored. Now, lost or stolen keys are canceled instantly using the Web Manager software.

www.assaabloy.com

EVENT

Expanding A Successful Format

SPS Automation Middle East 2019 - A Preview

With the Middle East manufacturing sector emboldened by rebounding oil prices, the second edition of SPS Automation Middle East, the international exhibition and conference for smart automation solutions, demonstrates how the fourth Industrial Revolution, or Industry 4.0 is driving ambitious diversification goals across the region.

Following a successful debut in 2018, the show, organized by Messe Frankfurt Middle East, returns for a two-day run from 3 - 4 September at Dubai World Trade Centre (DWTC), bringing together more than 20 exhibitors, key figures and major disruptors from the field of automation, IoT and Artificial Intelligence, to share knowledge, network and trade around the latest innovations changing the face of the industry. International visitors mainly come from the GCC and more widely from the MENA region.

Looking at the Middle East today, we can see that the adoption of emerging technologies and Industry 4.0 has already begun in the region. However, while market leaders are making the most of the fourth industrial revolution, there is still a lot of room for the rest of the manufacturing and industrial companies to gain a competitive advantage and increase performance and productivity through industrial automation. The show aims to help these companies gain an in-depth understanding into how they can implement advanced automation solutions to optimize production processes and enhance business performance.

The UAE is leading the way in tech adoption with the aim of transforming the manufacturing sector into a key economic driver to account for a 25 per cent share in the country's GDP by 2025, according to the UAE Industrial and Building Automation Outlook 2023 Report, prepared by TechSci Research for SPS Automation Middle East. With mega projects such as World Expo 2020 on the horizon, Industrial and Building Automation will be in sharp focus at the two-day show.
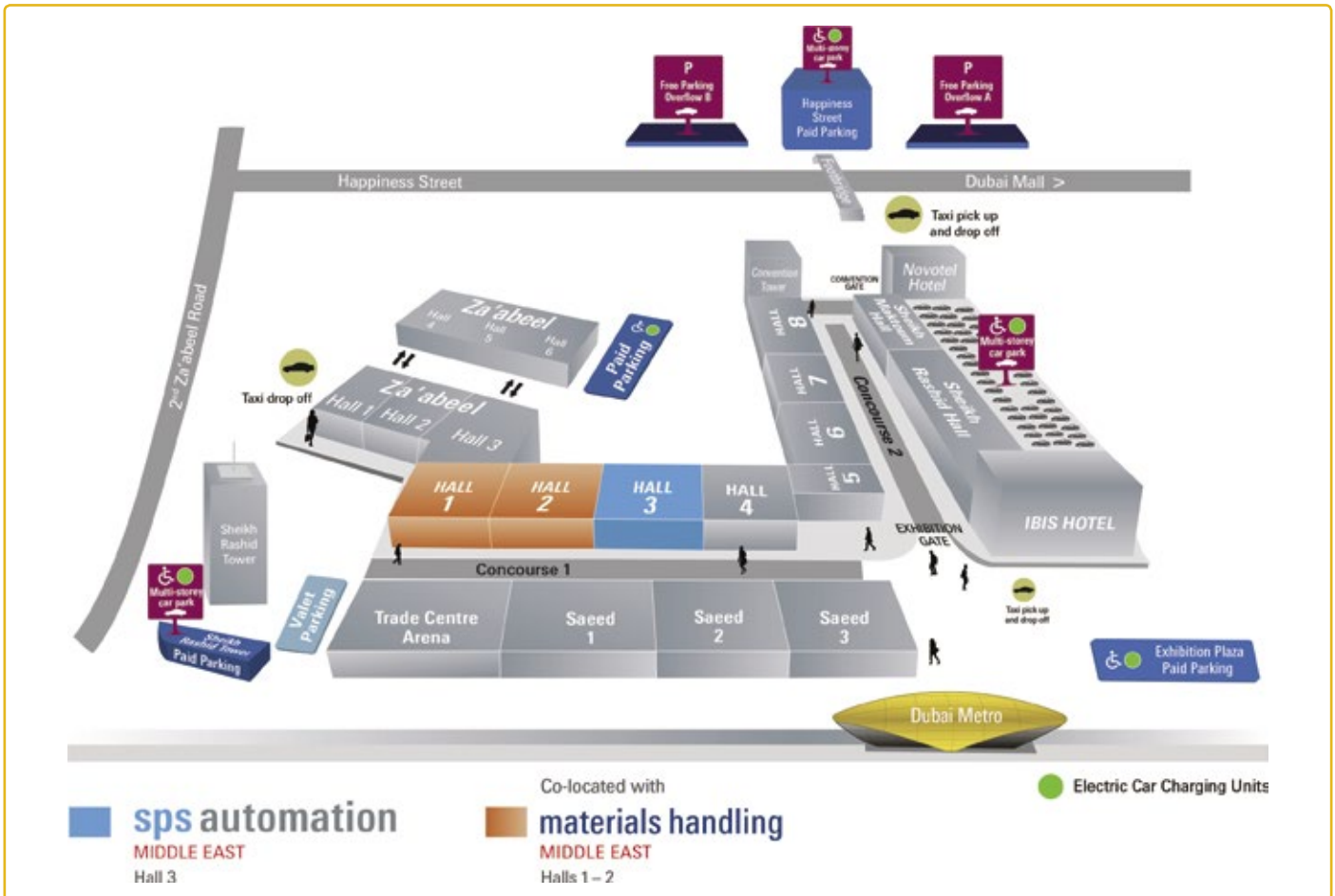
Industry heavyweights such as Sick, Delta Electronics, Beckhoff Automation, and Bosch Rexroth Middle East have all signed up for the event, while Germany headquartered Pilz, a complete automation technology supplier, is returning as the show's Automation Technology Partner, after a successful debut outing in 2018.

With the fourth Industrial Revolution, or Industry 4.0 firmly taking hold in the GCC, Pilz, will be exhibiting a range of automated systems for industrial communication, diagnostics and visualization. "There is a great potential for automation technology in this region and the Middle East forms an important link between Europe and Asia

with Dubai playing a key role by attracting investors from all over the world," said Horst-Dieter Kraus, Vice President of Marketing and Communications at Pilz. "The Middle East is an emerging and strategic region for Pilz and the SPS Automation Middle East is the only event in the region, which brings together all the aspects of applications and automation."

German manufacturer Schunk, the leading technology supplier of robots and production machines, will make its SPS Automation Middle East debut with focus on IIOT Edge Controllers, PMMS Energy Monitoring solution, IoTstar cloud management, Smart Building and Gas Scada Solutions. "The virtual world is continuously changing; systems are becoming faster, safer, more effective, and independent. This development is making increasing access into the world of production and manufacturing. The increasing number of customized solutions is presenting new challenges for production processes. The manufacturing methods of the future will be versatile, efficient, and integrated," commented Sezgin Malli, Sales Team Lead in the Middle East for Schunk.

sps automation
MIDDLE EAST
Hall 3

Co-located with

materials handling
MIDDLE EAST
Halls 1 – 2

● Electric Car Charging Units

Two-Day Conference

Running alongside the main exhibition, the SPS Automation Middle East Conference will bring together industry thought leaders and strategists for two days of knowledge sharing and key sector insights.

More than 20 high-profile speakers will address 25 sessions across the two days with keynote sessions such as "Manufacturing excellence and future competitive advantage, by Abdallah Obeikan, CEO, Obeikan Group KSA and a panel discussion 'Building the Digital Enterprise of the Future in the era of Digital Transformation, AI and Machine Learning', plus many more.

Ciro Del Core, Project Manager, SPS Automation Middle East, commented: "Following a hugely successful debut in 2018, we have evolved the show to align with key market developments and provide a platform for those redefining the automation and production industries."

"The blend of returning and first-time exhibitors, and the high-caliber line-up of speakers for the conference underlines the reputation SPS Automation Middle East has quickly earned as the place to meet the who's who of the automation industry. We look forward to two days of industry-shaping insights, knowledge sharing, networking and business."

Comprehensive Industry Insight

The show focuses on the overall industrial development of the Middle East and its specific challenges and requirements. Leading companies will address with the region's diversification: away from oil-based revenue to the expansion of various sectors like the creation of manufacturing hubs, technology hubs, and industries that support industrial automation. This includes topics like the convergence of IoT in future factories and the use of big data improve decision-making. Manufacturer's needs and additional ways to increase productivity and efficiency while reducing operations costs and waste will also be addressed. Challenges like the lack of enough manufacturers in the region will be part of the discussions, as well as ways to overcome the critical need of encouraging specialized workforce to manage the new-tech instrumentation and solutions.

SPS Automation ME provides a complete look at smart and digital automation. Visitors will find what they are looking for segregated into 14 comprehensive product groups including the so-called Future Factory that addresses:

- IoT Software & Solutions
- Artificial Intelligence Solutions
- Smart Manufacturing Solutions
- Cloud and SAAS Solutions for Smart Manufacturing
- Network providers and Carriers
- Augmented and Virtual Reality
- Butler System Smart Logistics
- Big Data & Data Centers
- Robotics and Accessories

FIRE SAFETY

Standards are an End-user's Best Friend

Work on European Standard on Remote Services for Fire Safety and Security on Track

After its work on services for fire safety systems and security systems succeeded to be voted as a European Norm, EN 16763, the Section Services of Euralarm convinced standardisation organisations to start working on a European standard on remote services for fire safety and security. With these, the section targets at getting all service providers answering to the same quality requirements. The section's initiative resulted in the start of a new working group within the Joint Technical Committee 4 under the umbrella of CEN Cenelec. The scope of JTC 4 WG1 is to develop and maintain a standard for requirements for the provision of secure remote services for fire safety and security systems. Halfway the process Euralarm's Mr. Bernd Giegerich provides the industry with an update.

Before going into the details of the development process it might be useful to picture the development as part of the standardisation trend that goes around in Europe. The start of this trend dates back to 2006 with the Services Directive that drove to realise the full potential of services markets in Europe by removing legal and administrative barriers to trade. The Directive was designed to increase transparency and make it easier for businesses and consumers to provide or use services in the Single Market. One of the highlights in this plan are standards. Standards are essential for ensuring uniform quality in the provision of services. Creating EU-wide standards and promoting them on a worldwide level is also a vital component of the global competitiveness of the EU fire safety and security industry.

Euralarm Guideline

As far as the provision and quality of services are concerned, the importance of standards not only counts for the services themselves but also for delivering the services remotely. Zooming in on these remote services, Euralarm started working on a remote services guideline in 2014. The work was continued and resulted in 2016 in the release of the White Paper 'Remote Services Guidelines' for future standardisation Work Item.

The guidelines that Euralarm released in 2016 therefore proposed recommendations for the definition and use of secure remote access. These recommendations are necessary since not all countries have industry standards for the use of remote access, which are crucial for end-users and service providers. Ensuring the transparency that the re-

mote services provided are secure, specifically, design requirements and strict operational procedures are fundamental in avoiding actions such as inadvertently deactivating parts of a fire safety and/or security system. The implementation of the European Services Directive and the EN16763 (Services standard for fire safety and security systems) including cross-border application of remote access, requires therefore a Pan-European approach of remote services, hence the development of a standard for this.

Background

Through the development of European standards, the fire safety and security industry working together within Euralarm, ensures that providers of fire safety and security products, solutions and

services meet the highest quality criteria. On the background of the proposed European standard on remote services for fire safety and security, Mr. Bernd Giegerich explains: 'It is common practice to monitor the alarm and fault status of alarm systems installed in premises from remote locations. Technological developments within fire safety and security systems, referred to as alarm systems, as well as the telecom networks now permit remote access to those systems with a wide variety of available functions up to and including full operation as well as programming and parameters setting as if an authorised person was on-site.' Such a 'remote access' supplements the on-site visits by qualified persons and enables new possibilities for customers (end-users) and the service-provider.

'What we now see is that the overall service quality offered by the various types of professional services providers at time of installation, maintenance or operation increases significantly', according to Mr. Giegerich. 'End-users experience faster response times leading to higher system reliability and availability. Service providers can provide new services such as remote system interrogation, which improves the planning for maintenance, allows predictive maintenance and therefore the optimization of staff utilisation. And while the development of new service solutions increases, companies more and more try to realise their job on the same quality level, while reducing costs. Meanwhile, there is some uncertainty by end-users and service-providers about what the minimum requirements for secure remote services are. In short: a standard for remote services is highly needed.'

On Track

The work of JTC4 WG1 started in February 2019 and was planned to be finalised by the end of this year. Mr. Bernd Giegerich: 'Since the start of JTC 4 WG1 we have had several meetings. The working group consists of 29 experts from 10 countries. While developing the draft standard, we have to take the existing regulation in the several countries into consideration. Although this requires more time than planned, we expect to present our draft by the end of this year. That document will specify the minimum requirements for the provision of secure remote services using an information transmission system (e.g. via IP-connections) to fire safety systems, security systems, social alarm systems and combinations of such systems.' Among these systems are fire detection and fire alarm systems, fixed firefighting systems, smoke and heat control systems as well as intruder and hold-up alarm systems, electronic access control systems, external perimeter security systems and video. 'With these requirements end-users, service providers and all other parties in the remote services chain will have a common understanding of what is expected and what should be delivered and what levels of quality are required to do so.'

Security Products

PTZ Camera with Enhanced Security and Advanced Analytics

Axis Communications has announced the P5655-E PTZ Network Camera, a cost-effective, high-performance PTZ camera for versatile surveillance applications. It comes with a new generation chip offering improved imaging, enhanced security features, extended capabilities for analytics and radically more efficient video compression. The camera features a light sensitive sensor and forensic WDR for clarity, even when both dark and light areas are in the scene. Electronic image stabilization minimizes the effects of any vibration and shaking. Including extended processing power for advanced analytics, it also offers a choice of four optimized scene profiles (indoor, outdoor, forensic and traffic). Signed firmware and a secure boot guarantees that the firmware hasn't been altered and ensures only authorized firmware is installed and that the camera is completely free of malware after a factory default. **www.axis.com**

The Transition to Cognitive Cities

Qognify will share its expertise of how metropolitan areas can make the shift from being safe and smart to fully cognitive cities at the 5th National Summit on 100 Smart Cities India 2019. Qognify is the Presenting Partner of the Summit which takes place August 22, 2019 at The LaLiT in New Dehli and is currently involved in more than 20 safe and smart city projects throughout the country that include high profile award-winning projects. Regional VP, India at Qognify, Dilip Verma, will present at the Summit and he comments: "Many cities have taken steps to become safe cities, whilst a smaller but growing number are breaking ground as truly smart cities. At the Summit we will use our experience, working on some of the most innovative projects in India and around the world, to look to the horizon where we envisage urban environments becoming truly cognitive." **www.qognify.com**

Rugged Outdoor Infrared Camera That Captures Details in Poorly Lit Situations

With an estimated $50 billion in losses annually according to the National Cargo Security Council, areas such as seaports and waterways are in need of enhanced surveillance technology. Enter the Spectra Pro IR 4K from Pelco, the video surveillance solution for organizations who are frustrated with the inability to zoom into crowded, outdoor areas with low levels of light. The rugged outdoor camera captures mission-critical forensic video with these features: Up to 4K 30ips resolution and wide view: Security administrators need a surveillance solution that simultaneously covers a large area and offer zoom-in capability that provides detailed and clear information such as license plate numbers or faces of people for high-quality forensic gathering in the event of an accident or criminal activity. The Spectra Pro IR 4K allows for maximum visibility, since one camera covers up to four 1080p cameras. Outstanding image quality in difficult lighting: Infrared (IR) Illumination technology allows operators to see detailed video up to 150 meters away, where external visible lighting is not wanted or unavailable. The IR enables accident and crime prevention in poorly lit areas by automatically illuminating areas of interest. Smart compression technology for operational efficiency: Featuring H.265 and Pelco's Smart Compression technology, the Spectra Pro 4K lowers bandwidth and storage requirements between 30% and 70%. This provides improved compression in areas requiring 24/7 surveillance, resulting in lower bandwidth and storage costs. Tilt to +15° above the horizon: The 15° above-the-horizon feature enables operators to see areas that are difficult to view when using typical mounting locations. This allows for an extended view area above most dome cameras that can only capture images up to the horizon. Electronic image stabilization: Reducing blurring associated with camera motion, this feature allows the Spectra Pro 4K to maintain a smooth image, ideal for monitoring areas affected by high vehicle traffic or strong winds. **www.pelco.com**

Darrick Wood School now benefits from an upgraded Apollo fire detection system

FIRE DETECTION

School's Out!
A School Protected by Apollo Fire Detectors

Apollo Fire Detectors Soteria range of detectors has been chosen to protect the prestigious Darrick Wood School in Orpington, Kent. The school is rated by Ofsted as ‚outstanding' and achieved the ‚World Class Schools Quality Mark' in 2015.

The fire detection system was upgraded as part of a wider program of works which saw the school invest in a new dining hall, a Movement and Performing Arts Building with specialist drama and music rooms and new PE changing rooms. Many of these new buildings encompass large open areas with high ceilings and interconnected spaces, which presented a challenge for the project's fire detection system designer, Triple Star Fire and Security.

Built in 1975, Darrick Wood School has been extended over the years and the existing fire detection system was in need of an upgrade. The installation of a brand new system to protect the pupils, staff and visitors using the most recently added school buildings provided an opportunity to upgrade some parts of the existing system. The existing and new fire systems will be fully integrated to ensure compatibility across the school. To avoid any disruption to pupils and staff during term time, all installation and upgrade work on the systems took place during the school holidays. The main building contractor, Ammcass Group, appointed local experts Triple Star Fire and Security to design and install the new fire detection system, using Apollo's detectors.

A Lesson in Fire Safety

Explaining the choices made at Darrick Wood School, Daren Pool, Managing Director of Triple Star, said: „Soteria was the ideal product for this large school. With this advanced technology available, we are able to offer superior reliability of detection and reduction of false alarms – exactly the features required in this environment." Almost 100 devices were fitted at Darrick Wood, including manual call points and interfaces along with bells and strobes designed for the school environment. The system is managed by two Advanced MX5 control panels – one located in the main reception area and the other in the sports center reception. The system is programmed to operate a ‚one out, all out' procedure in the event of a fire being detected.

Graham Field, Premises Manager at Darrick Wood School, commented: „The installation of the new fire protection system went smoothly during the holidays so that we could proudly open the new buildings and provide the pupils with enhanced facilities. It was reassuring to have the latest Soteria technology installed. We're very happy with the modern aesthetics of the devices and are confident that the school's fire protection is future-proofed for the years ahead."

CONTACT
Apollo Fire Detectors
Havant, United Kingdom
Tel.: +44 2392 492412
marketing@apollo-fire.co.uk
www.apollo-fire.co.uk

Fire Alarm Firmware Update

Kentec have released a new firmware version 1.0.13 for their Vizulinx Fire Alarm management module. This replaces the current version 1.0.11 and provides some new features. Vizulinx now provides full support for Taktis EN and Taktis UL addressable fire alarm panels. Connection is via IP and, to achieve this, the Taktis panel must have a media gateway card fitted. Vizulinx communication methods have been expanded by providing support for USB Wi-Fi GSM dongles. These enable connection to the internet via Wi-Fi allowing the module to send emails and text status messages. Vizulinx is fully compatible with the UL approved range of Kentec panels. The Hydrosense leak detection control panel provided by Vimpex has also been added to the panel selection menu within the quick start set-up. Although this upgrade is not essential, Kentec always recommends that products in the field should be installed with the latest firmware.   **www.kentec.co.uk**

H.265 Support with Latest Software Release

Wavestore has improved its Video Management Software with the introduction of v6.16. The latest version of the open platform and highly secure Linux-based VMS includes H.265 compression. This brings a considerable reduction in bandwidth and storage capacity require-ments due to the efficiency of H.265. A new Layout Sequences feature allows camera layouts to be defined and shown in a sequence. I/O compatibility is also enhanced, utilizing the MODBUS protocol. Event-triggered inputs and outputs processed by Adam or Moxa I/O devices can now be integrated with the manufacturer's 'Cause and Effect' rules engine. Axis VAPIX I/O devices are also integrated, and IPv6 compatibility has been introduced for sites that require the latest Internet Protocol addressing. SIRA-approved VideoGuard remote visual monitoring software platform integration is likely to be of particular interest to customers in the Middle East to ensure essential compliance with Dubai police requirements.   **www.wavestore.com**

Avigilon Blue Cloud Video Security Platform Launches in UK

Avigilon announced that it is launching its Avigilon Blue platform in the United Kingdom. For Avigilon Partners, the Avigilon Blue cloud service platform provides an easy-to-install, cloud-based video security solution with features and capabilities that allows them to remotely monitor and manage more sites with fewer resources. Partners can easily monitor the health of customer sites, update configurations and deploy system updates, all remotely. Other key benefits of the Avigilon Blue platform for Partners and end-users include: Patented Avigilon self-learning video analytics – technology that works with almost any IP camera already installed on site, to recognize threats with greater accuracy. Quick video verification – with easy and secure access to video via the Avigilon Blue Mobile app or a desktop browser, users can verify video clips instantly on site or remotely. Monthly subscription costs – helping provide a recurring monthly revenue opportunity for Partners, while end-users enjoy the peace of mind of predictable fees for video security services. Patented Avigilon bandwidth saving technology – providing users the simplicity of using a standard internet connection, helping keep internet connectivity costs down.   **www.avigilon.com**

Patol's Heat Detection Cables Protect Cement Plant

Patol's fire protection solution, a Linear Heat Detection Cable - or LHDC – is now in use at the flagship site of Cemex, one of the UK's major producers of cement. In the cement plant, the system is being used to detect overheating and fire in the lubrication systems. Cemex is a manufacturer of a wide range of cements from three UK factories, using locally quarried materials and additives to produce cements that are employed in construction projects throughout the UK. At its flagship site in Rugby, a number of plant lubrication systems are a fundamental part of the production process. The systems circulate cool and filter lubricant oils around critical bearing surfaces of the site's process equipment and, as such, require a quick and efficient method of addressing any potential fire safety issues. The solution was the Patol Firesense range of LHDC, a cost-effective method of providing early fire detection in applications that would not ordinarily be viable - either through the inability to sustain the environment requirements or through prohibitive costs.   **www.patol.co.uk**

Installer Program Launched at Firex

Kentec chose Firex to launch its new installer scheme, providing its registered customers with a wide-ranging program of bespoke training and technical support, as well as dedicated software and enhanced product functionality. The Kentec Installer Programme (KIP) provides access to the company's protected partner site, Virtual Resource, as well as the Taktis LE2 commissioning software and enhanced Bridge Functionality – the recently-released solution for migrating Syncro panel networks to the latest Taktis technology. A dedicated KIP technical support helpline provides installers with access to the manufacturer's experienced team, training is providing on the full fire product range and all KIP members can promote their product expertise with the KIP logo on their websites and marketing collateral. Kentec will also feature a list of KIP partners on its own website.   **www.kentec.co.uk**

AI-Powered Automated Threat Detection

Artificial intelligence (AI) security and defense company Synapse Technology Corporation has expanded its reach into Europe. Synapse has established partnership with Bavak, a world-wide provider of integrated security and screening solutions from the Netherlands. Under the agreements, the distributor will market, sell and support the company's Syntech One platform for applications including aviation security, border security and critical infrastructure protection. Syntech One is an AI-powered software platform that dramatically improves the effectiveness of checkpoint X-ray scanners by automating detection of prohibited items. It retrofits onto both new and existing X-ray systems. With false alarm rates in the field of 0.3% on sharps and 0.01% on firearms, and detection rates above 99% for firearms, the open integration platform supports full backward compatibility with any X-ray manufacturer and model, including Smiths Detection, Rapiscan and Astrophysics standard checkpoint x-ray scanners.   **www.bavak.com**

ALARM SYSTEMS

Crisis Management
Concerns Everyone

Background Report on Crisis Management

Be it great fires, floods due to heavy rain or IT outages due to hacker attacks: When it comes to crisis management, federal and state governments as well as cities and municipalities with blue-light organisations are all in the same boat, metaphorically speaking. Industrial companies also have to plan and prepare for emergencies in order to secure production and business processes and minimise economic losses. Effective structures, well-trained people and powerful technology have to be closely enmeshed to ensure that the right decisions are made in the event of an emergency. From 5 to 8 November, A+A 2019 presents new approaches and current trends on this topic in Düsseldorf.

During the great fire of Notre Dame, the whole of Europe held its breath. In Paris, the fire brigade was able to limit the fire in the cathedral to the wooden truss after about four hours and thus saved valuable works of art and the rich interior, despite damage due to heat, soot and extinguishing water.

'An achievement that was only possible thanks to the Paris fire brigade's organised crisis management,' says Raimund Bücher, Director of Fire Brigade at Henkel in Düsseldorf. 'The size of the object was certainly a particular challenge. In addition, knowing that irreplaceable cultural goods were at risk required special protective measures. Thank goodness the entrances had already been closed when the fire broke out, as this meant that no-one was hurt in this disaster.'

Equipped for Complex Requirements

Effective crisis management, as seen during this event, requires a perfectly coordinated team with a transparent leadership structure, modern safety equipment and powerful technical aids.

'We aim to prepare people for emergencies, even if no-one can be prepared for every possible situation,' says Norbert Jetten, Head of Technology at BYK-Chemie in Wesel. 'The requirements are quite complex: At the end of the day, we need to be just as able to deal with a fire or substance release as with hacker attacks or the effects of a natural catastrophe.'

Clearly Defined Tasks

For this, it is vital to have a team in which each member knows exactly what to do. 'Depending on the size of the company, clearly defined functional areas or specialist departments are involved,' says Stephan Hummel, Head of Fire Protection at Currenta. The company manages and operates Chempark with three locations in Germany: Leverkusen, Dormagen and Krefeld. They have defined who passes on information, both internally and externally, and have also determined the analysis of the event. What dangers does the situation present for people and the environment, which area is affected, what is the prognosis – these are all questions that need to be answered as fast as possible in these situations. And measures such as warning and informing the public, planning the emergency response and providing the necessary personnel and technical resources all depend on the answers.

At A+A 2019 in Düsseldorf, five short presentations will focus on crisis management. They address, among other issues, the meaning of emergency response for small, mid-sized and large companies, the topic of digitalisation and the role of social media as part of crisis communications. At the GFPA German Fire Protection Association stand, experts will be on hand to engage in dialogues with professional visitors. Among others, Currenta, Henkel and the Industrial Fire Protection Association of Germany will be present.

Multi-user locations are increasingly recognising the advantages of being closely interconnected. Large companies like Currenta connect different locations to several security centres. Identical IT programmes facilitate communication, whilst procedures and processes that have been aligned with one another help maintain an overview of the situation. Services are further optimised with the aid of state-of-the-art control centre software, allowing users to fulfil their statutory reporting obligations even more quickly in future and to streamline organisational processes as well as the entire information and emergency management.

Robotics, Drones, Modern Fire Engines

When the sites of fires or natural catastrophes become too dangerous for humans, robots come in handy. As they did during a fire in the marl caves south of Maastricht in July 2017. A farmer had stored hay there, which had caught fire. As there was a risk of the caves collapsing, helpers were unable to enter. The fire brigade in Aachen contacted the Chempark site fire brigade in Leverkusen to request the Manipulator, a remote-controlled robot. This special device provided essential images from inside the caves, which gave the fire brigade an overview of the fire.

Drones also play an increasingly important role in the evaluation of an event or in the continuous monitoring of plants. 'They allow us to quickly and easily take pictures at great heights or in areas that are difficult to access,' explains Joachim Beyer, Head of Security at Currenta-Chempark & Safety (CPS). 'We regularly use drones for inspection flights and to obtain thermal images. These in turn help us collect data with which we can optimise our plants.'

Germany's first turbine fire engine will be in use at Currenta at the end of 2019. A high-performance engine produces a fine extinguishing mist that sprays up to 150 metres and is intended specifically for providing aid in industrial fires in the chemicals industry. 'It achieves the same results with less extinguishing agents and less water – this contributes to more sustainability and improves the fire brigade's performance,' summarises Hummel.

Digital Aids and Autonomous Technologies

Digitalisation increasingly helps us determine the causes of crises. According to a 2019 survey conducted by the Crisis Navigator – Institute for Crisis Research, part of the University of Kiel (Krisennavigator – Institut für Krisenforschung, ein Spin-off der Univeristät Kiel), crisis managers are increasingly dealing with data integrity breaches, blackouts, IT outages as well as public backlash and online protests. At the same time, more and more digital products and technologies open up new opportunities for providing extensive information and optimised organisation.

In the event of an evacuation, for example, site fire brigades have to be sure that everyone has left the site. Only when this has been confirmed can they fully start fire-fighting measures, for example. To do so, Currenta relies on a new, electronic logbook that registers when employees enter or leave the works premises. This is recorded quite simply via a digital system that requires each employee to hold a special identification card up to a reading device. This procedure has been in place at Chempark Dormagen since December 2018.

New digital tools allow users to quickly achieve – and maintain – information superiority. Pre-stored text modules allow users to create press releases within minutes. With the aid of alarm servers, crisis unit members can be notified by mouse click.

'The future promises autonomous drones that can independently probe a situation,' forecasts Hummel. 'Self-driving vehicles will allow us to evaluate information as soon as we are on our way to the emergency location, saving valuable time. And artificial intelligence is sure to open up whole new potential, such as exploration systems.' Exoskeletons – stabilising and power assisting elements – promise improved protective functions and new options of use, such as lifting larger loads.

And sometimes, coloured pens and paper are all you need: When handling disasters, conventional aids continue to play an important role. 'Paper and coloured markers are still immensely popular,' says BYK-Chemie Head of Technology Jetten. 'Anyone can use them and they still work, even if the power's out. Where are the servers located that are under threat from cyber attacks, which areas are at risk during fires or in the event of substance release, where do the water, sewage or electricity pipes run. Visualising is of central importance, as this way, everyone can see at a glance what effects an event may have on the site or its surroundings.' The communications that are based on the situation image are also important and must be clear, comprehensible and void of speculation. After all, a specialist for communications must be able to immediately understand a statement just as well as an IT or environmental expert.

New Obligations for SMEs

The draft of the new DIN ISO standard 22320 (Security and Resilience – Emergency Management – Guidelines for Incident Management), which was submitted in August 2018, requires small and mid-sized companies to fulfil obligations with regard to crisis management, too. 'In future, businesses that would like to obtain certification will have to prove a corresponding organisational structure and employ qualified staff,' says Henkel's Director of Fire Brigade, Raimund Bücher. 'This of course means they need to have the necessary budgets.'

The Human Risk Factor

When danger sends adrenaline shooting into our blood, our actions are impaired. Our brains seem to become sluggish – rational thoughts are no longer possible, our memory performance flags and deliberate actions are difficult. The more times a person has been through this, the quicker they can bridge this chaotic phase. 'Continuous drills train routines, which we can then access quickly in the event of danger,' says Jetten. Which is why he and his colleagues rely on what he calls circuit training. This means realistic drills with various requirements that have been set up on the works premises. 'The changing roles within the individual positions sharpen our awareness of the different perspectives people have in the exact same situation. It allows us to stage everything as realistically as possible – with the police, fire brigade and emergency responders.'

Raising Public Awareness

However, crises don't stop at the works gate. 'Standards, legislation and internal drills alone don't cut it. It is extremely important to raise public awareness, so that they react adequately in an emergency,' emphasises Raimund Bücher. Which is why North Rhine-Westphalia introduced a statewide alert day in 2018. On alert day, the sirens are tested and trial alert notifications are sent out, for example using the Nina alert app, the federal emergency information and notification app (Nina stands for 'Notfall-Informations- und Nachrichten App', emergency information and notification app).

Drills are carried out across regions, as well. 'Lükex stands for 'Länderübergreifende Krisenmanagementübung' (cross-state crisis management drill),' the expert explains. 'The realistic drills aim to improve the management of national crises.' This involves organisations at the governmental and state level. In addition, the fire brigade and organisations such as the German Red Cross (Deutsche Rote Kreuz, DRK), the Maltese Help Organisation (Malteser Hilfsdienst) and the ASB Workers' Samaritan Federation are important helpers in informing the broader public.

Crisis management – a topic with seemingly endless facets. At A+A 2019, experts are on hand to answer questions and engage in discussion. Because one thing is certain: we can only manage crises if we are willing to find solutions together.

CONTACT
Messe Düsseldorf GmbH
Düsseldorf
www.aplusa-online.com

SECURITY MANAGEMENT

FACILITY SECURITY

ALARM MANAGEMENT

Security Management

deister electronic

deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification;
biometric verification; guard tour systems;
storing and management of keys and valuables

Facility Security

deister electronic

deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification;
biometric verification; guard tour systems;
storing and management of keys and valuables

Alarm Management

ABUS
Security Tech Germany

ABUS Security-Center GmbH & Co. KG
Linker Kreuthweg 5 · D-86444 Affing
Tel. +49(0)8207/95990-0
Fax +49(0)8207/95990-100
info.de@abus-sc.com · www.abus.com
ABUS Security-Center is a manufacturer of innovative alarm
systems, video surveillance systems, door intercom systems
and detectors. As a member of the ABUS Group, the company
is specialised both in industry-specific security requirements
as well as the demands which private users have.

Security Management

funkwerk video systeme

Funkwerk video systeme GmbH
Thomas-Mann-Str. 50 · D-90471 Nürnberg
Tel. +49(0)911/75884-0
Fax +49(0)911/75884-100
info@funkwerk-vs.com · www.funkwerk.com
CCTV, system solution, system integration,
video monitoring security, building management

Facility Security

DICTATOR

Dictator Technik GmbH
Gutenbergstr. 9 · D-86356 Neusäß
Tel. +49(0)821/24673-0 · Fax +49(0)821/24673-90
info@dictator.de · www.dictator.de
Drive units, hold open systems and smoke detectors,
door control solutions

Alarm Management

DIGISOUND®

Digisound Electronic GmbH
Oststraße 54 · D-22844 Norderstedt
Tel. +49(0)40/526869-0 · Fax +49(0)40/526869-13
contact@digisound.de · www.digisound.de
Acoustic buzzers, piezo-electric sounders,
electronic beacons, speakers, and transducers

Security Management

KSenia
security innovation

Ksenia Security s.r.l.
Strada Proviciale Valtesino, 44
63065 Ripatransone (AP), Italy
Tel. +39 0735 751646 · Fax +39 0735 652281
info@kseniasecurity.com · www.kseniasecurity.com
Security & Home Automation: We connect homes
by re-inventing security products and solutions

Alarm Management

TAS
SICHERHEITS- UND
KOMMUNIKATIONSTECHNIK

TAS
Telefonbau Arthur Schwabe
GmbH & Co. KG
Langmaar 25 · D-41238 Mönchengladbach
Tel. +49 (0) 2166 858 0 · Fax: +49 (0) 2166 858 150
info@tas.de · www.tas.de
Manufacture and development of alarm transmis-
sion systems, alarm and conference units.

Security Management

NSC
Sicherheitstechnik GmbH

NSC Sicherheitstechnik GmbH
Lange Wand 3 · D-33719 Bielefeld
Tel. +49(0)521/13629-0 · Fax +49(0)521/13629-29
info@nsc-sicherheit.de · www.nsc-sicherheit.de
Fire Alarms, CCTV, Voice Alarm Systems

Facility Security

SimonsVoss
technologies

SimonsVoss Technologies GmbH
Feringastr. 4 · D-85774 Unterföhring
Tel. +49(0)89/99228-180 · Fax +49(0)89/99228-222
marketing@simons-voss.de · www.simons-voss.de
Digital locking and organisation systems with
optional access control and time recording

VIDEO TECHNOLOGY

Facility Security

wurster
Ideen in Blech

Walter Wurster GmbH
Heckenrosenstraße 38-40
D-70771 Leinfelden-Echterdingen
Tel. +49 (0) 711/949 62-0
kontakt@wurster-online.de · www.wurster-online.de
Money handover systems fire resistant up to F90 and bullet
resistant up to FB7, cash trays, cash-drawers and facade
counters to pass through money, valuables, documents and for
installation in high-security areas, banks, petrol-stations, phar-
macies, sports – and cultural sites indoors and outdoors.

Video Technology

AUS GUTEM GRUND
GRUNDIG

Abetechs GmbH (Grundig Security)
Steinhof 39 · D-40699 Erkrath/Germany
Tel: +49 211 5380 6832
info@grundig-security.com · www.grundig-security.com
The impressive new GRUNDIG Security IP range
covers everything required in modern, professional
video surveillance applications.

Video Technology

ABUS
Security Tech Germany

ABUS Security-Center GmbH & Co. KG
Linker Kreuthweg 5 · D-86444 Affing
Tel. +49(0)8207/95990-0
Fax +49(0)8207/95990-100
info.de@abus-sc.com · www.abus.com

ABUS Security-Center is a manufacturer of innovative alarm systems, video surveillance systems, door intercom systems and detectors. As a member of the ABUS Group, the company is specialised both in industry-specific security requirements as well as the demands which private users have.

Video Technology

lunaHD
High Definition Video

www.luna-hd.de

TIME
ACCESS

Video Technology

AXIS
COMMUNICATIONS

Axis Communications GmbH
Adalperostraße 86 · D-85737 Ismaning
Tel. +49 (0)89/35 88 17 0 · Fax +49 (0)89/35 88 17 269
info-de@axis.com · www.axis.com
Network security solutions:
Axis is technology leader in network video and offers intelligent security solutions.

Video Technology

MONACOR

MONACOR INTERNATIONAL
Zum Falsch 36 · 28307 Bremen
Tel. +49(0)421/4865-0 · Fax +49(0)421/488415
info@monacor.de · www.monacor.com
Video monitoring components and systems

Time + Access

cryptin
CICHON
STOLBERG

Cichon+Stolberg GmbH
Wankelstraße 47-49, 50996 Köln
Tel. +49(0)2236/397-200 · Fax +49(0)2236/61144
info@cryptin.de www.cryptin.de
Operational data collection, time recording, access control

Video Technology

Dallmeier

Dallmeier electronic GmbH & Co. KG
Bahnhofstrasse 16 · 93047 Regensburg
Tel. +49(0)941/8700-0 · Fax +49(0)941/8700-180
info@dallmeier.com · www.dallmeier.com
Video security technology made in Germany: multifocal sensor technology Panomera®, IP cameras, recording servers, intelligent video analysis, video management software

Video Technology

Panasonic BUSINESS

Panasonic Marketing Europe GmbH
Hagenauer Straße 43 · 65203 Wiesbaden · Germany
info@panasonic.business.co.uk
www.panasonic.business.com/security-solutions
High-quality CCTV solutions (IP & analogue), Video Automation and IA, Sophisticated technologies (FacePro, people masking), Cyber Security Protection for GDPR compliance, VMS: Video Insight

Time + Access

deister electronic

deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification; biometric verification; guard tour systems; storing and management of keys and valuables

Video Technology

DEKOM
VIDEO SECURITY & NETWORK GMBH

Your reliable partner for professional video surveillance
DEKOM Video Security & Network GmbH
Hoheluftchaussee 108 • 20253 Hamburg
Tel. +49 (0) 40 47 11 213-0 · info@dekom-security.de
Member of Dallmeier
www.dekom-security.de • www.dekom-security.at

Video Technology

Qognify

Qognify GmbH
Werner-von-Siemens-Str. 2-6 · 76646 Bruchsal
Tel. +49 (0) 7251 9290-0 · Fax +49 (0) 7251/9290-815
Info.emea@qognify.com · www.qognify.com
Qognify GmbH is a leading provider of Video Management Software in Europe. Since 2000 Qognify has been developing and selling software solutions for security applications.

Time + Access

FEIG ELECTRONIC

FEIG ELECTRONIC GMBH
Lange Straße 4 · 35781 Weilburg
Tel. +49(0)6471/3109-44 · Fax +49(0)6471/3109-99
obid@feig.de · www.feig.de
Electronic locking systems, identification, access control, access road control

Video Technology

EIZO

EIZO Europe GmbH
Helmut-Grashoff-Str. 18
41179 Mönchengladbach
Tel.: +49 2161 8210 0
info@eizo.de · www.eizo.de
Professional monitors for video surveillance with visibility enhancement technology and 24/7 use, IP decoder monitors to connect to IP cameras without any computer.

Video Technology

BURG WÄCHTER
SANTEC

SANTEC BW AG
An der Strusbek 31 ▪ 22926 Ahrensburg ▪ Germany
Tel. +49 4102 4798 0 ▪ Fax +49 4102 4798 10
santec_info@burg.biz ▪ www.santec-video.com
Video monitoring technology ▪ Video-over-IP
Outdoor IR sensors ▪ Planning and Services

Time + Access

Gantner
technologies

GANTNER Electronic GmbH
Montafonerstraße 8 · A-6780 Schruns
Tel. +43 5556 73784-542 · Fax +43 5556 73784-8000
info@gantner.com · www.gantner.com
access control solutions/biometrics, time management, data capture, locking systems

Video Technology

xtralis **Honeywell**
Xtralis is now a part of Honeywell

HeiTel Digital Video GmbH
Xtralis Headquarter D-A-CH
Hamburger Chaussee 339–345 · D-24113 Kiel
Tel.: + 49 431 23284-1 · Fax. + 49 431 23284-400
info@heitel.com · www.heitel.com
Video remote monitoring, CMS solution, video-based secuirty concept

Video Technology

VICON

Vicon Deutschland GmbH
Gutenbergstraße 1 · D-23611 Bad Schwartau
Tel. +49(0)451/81189027 · Fax + 49(0)451/1602029
desales@vicon-security.com · www.vicon-security.de
Vicon is one of the worldwide leading independent manufacturers and full-range supplier of IP based video security solutions.

Time + Access

ISGUS

ISGUS GmbH
Oberdorfstr. 18–22
78054 Villingen-Schwenningen
Tel. +49(0)7720/393-0 · +49(0)7720/393-184
info@isgus.de · www.isgus.de
Time & Attendance, Access Control, Biometrics, Plant Data Collection, Staff Scheduling, SAP Communication

Time + Access

pcs

PCS Systemtechnik GmbH
Pfälzer-Wald-Straße 36 · 81539 München
Tel. +49(0)89/68004-550 · Fax +49(0)89/68004-555
intus@pcs.com · www.pcs.com
time recording, access control, BDE/MDE,
biometric, video, SAP, Vein Scanner

Time + Access

phg
Die richtige Verbindung

phg Peter Hengstler GmbH + Co. KG
Dauchinger Str. 12 · D-78652 Deißlingen
Tel. +49(0)7420/89-0 · Fax +49(0)7420/89-59
datentechnik@phg.de · www.phg.de
RFID components for access control, timekeeping, factory
data collection, canteen data, leisure applications, surface-
mounted devices, flush-mounting components, biometrics,
identification media and accessories

Time + Access

primion group
Digitek · GET · OPERTIS · primion

primion Technology GmbH
Steinbeisstraße 2-4 · D-72510 Stetten a.K.M.
Tel. +49(0)7573/952-0 · Fax +49(0)7573/92034
info@primion.de · www.primion.de
Time management, access control and
management, staff deployment planning ,
graphic alarm management, SAP communications
solutions, pass and ID card production, Biometrics

Time + Access

TBS

Touchless Biometric Systems AG
Rietbrunnen 2 · CH-8808 Pfaeffikon, Switzerland
Tel.: +41 55 533 2000 · Fax +41 55 533 2001
tbs@tbs-biometrics.com · www.tbs-biometrics.com
TBS are the specialists behind the world's largest
security integrators and countless resellers –
providing biometric expertise, products and soluti-
ons in Access Control and Time & Attendance.

FIRE
PROTECTION

Fire Protection

Ei Electronics®
fire + gas detection

Ei Electronics
Shannon Industrial Estate
Shannon, Co. Clare · Ireland, V14 H020
Tel. 00 353 61 471277 ·Fax 00 353 61 471053/471140
enquiries@eieletronics.ie · www.eieletronics.com
smoke alarms, heat detectors, carbonmonoxide
alarms, RF systems, interfaces, deaf alarms, remote
controls, AudioLINK

Fire Protection

ESSER
by Honeywell

Novar GmbH a Honeywell Company

Dieselstraße 2 · D-41469 Neuss
Tel.: +49(0)2131/40615-600
Fax: +49(0)2131/40615-60
info@esser-systems.com · www.esser-systems.com
Fire Alarm systems, voice alarm systems,
emergency lighting systems, security systems

Fire Protection

HEKATRON
Ihr Partner für Brandschutz

Hekatron Vertriebs GmbH
Brühlmatten 9 · 79295 Sulzburg
Tel. +49(0)7634/500-0 · Fax +49(0)7634/6419
info@hekatron.de · www.hekatron.de
Fire alarm systems, Smoke switch systems,
Smoke alarms, Safety linkage systems

PLANT
SAFETY

Plant Safety

PEPPERL+FUCHS

Pepperl+Fuchs AG
Lilienthalstraße 200 · 68307 Mannheim
Tel. 0621/776-1111 · Fax 0621/776-27-1111
fa-info@de.pepperl-fuchs.com
www.pepperl-fuchs.com
Security sensors, inductive, capacitive, opto-
electronic and ultrasonic sensors, vision sensors,
identification systems, interface modules

POWER
SUPPLIES

Power Supplies

SLAT
for safer buildings

SLAT
Builder of energy continuity
11, rue Jean Elysée Dupuy
69410 Champagne au Mont d'Or – France
Tel. +33(0)478 66 63 60 · Fax +33(0)478 47 54 33
www.slat.com · comm@slat.fr
fire detection, voice alarm, acces control, intrusion,
outdoor video surveillance, building automation

Company Index

1. **Right now:** I am worried that the level of IT security and trustworthiness in digitization is not high enough.

2. **My biggest motivation is** to make the world more secure.

3. **At 7 o'clock in the morning** I am motivated to change the world.

4. **The best decision in my career so far** is always staying in IT security, as an entrepreneur and as a professor.

5. **At the most best job I ever had** I do free research as a professor.

6. **In the shower** I sing like a young god.

7. **My first car** was a VW Beetle.

8. **I had the opportunity** to shake hands with Bill Clinton.

Name:
Prof. Norbert Pohlmann

Position, Company:
Director Institute for Internet Security and Chairman of the IT Security Association Germany TeleTrusT

Date of Birth: 20.03.1960

Hometown: Aachen, Germany

Favorite homemade dish: Sauerbraten

Off the Record

Get to know inspirational characters of the Security Industry in GIT SECURITY's series

© phaitoon - stock.adobe.com

IMPRINT

Published by
Wiley-VCH Verlag GmbH & Co. KGaA
A Company of John Wiley & Sons, Inc
Boschstrasse 12 · 69469 Weinheim
GERMANY
Tel.: +49 (0) 6201 606-0
Fax: +49 (0) 6201 606-791
info@gitverlag.com · www.gitverlag.com

Managing Directors
• Sabine Steinbach
• Dr. Guido F. Herrmann

Publishing Directors
• Dr. Heiko Baumgartner
  Tel.: +49 (0) 6201/606-703
  heiko.baumgartner@wiley.com

• Steffen Ebert
  Tel.: +49 (0) 6201/606-709
  steffen.ebert@wiley.com

Sales Managers
• Regina Berg-Jauernig
  Tel.: +49 (0) 6201/606-704
  regina.berg-jauernig@wiley.com

• Miryam Reubold
  Tel.: +49 (0) 6201/606-127
  mirreubold@wiley.com

• Dr. Michael Leising
  Tel.: +49 (0) 36 03/8942800
  leising@leising-marketing.de

Wiley GIT Reader Service
65341 Eltville / Germany
Tel.: +49 6123 9238 246
Fax: +49 6123 9238 244
E-Mail: WileyGIT@vuservice.de
Our service is available for you from
Monday to Friday 8 am – 5 pm CET

Editorial
• Lisa Schneiderheinze
  Tel.: +49 (0) 6201/606-738
  lschneider@wiley.com

• Matthias Erler
  Tel: +49 (0) 6723/9 94 99 82
  matthias.erler@wiley.com

Editorial Assistant
• Sophie Platzer
  Tel.: +49 (0) 6201/606-761
  sophie.platzer@wiley.com

Production
• Jörg Stenger
• Andi Kettenbach (Layout)
• Elli Palzer (Lithography)
• Claudia Vogel (Sales Administrator)

European Representatives
• Dave Harvett, Direct Media
  Tel.: +44 (0) 121 705 2120
  daveharvett@btconnect.com
• Oliver Haines, Impressive Marketing
  Tel.: +44 (0) 1743 369611
  impressive.marketing@virgin.net

Bank Account
J.P. Morgan AG, Frankfurt
Account No.: 6161517443
Routing No.: 501 108 00
BIC: CHAS DE FX
IBAN: DE55501108006161517443

GIT SECURITY is published 4 times per year.

Subscription 2019
4 issues 55.00 €, single copy 16.30 € plus postage. Pupils and Students receive a discount of 50 % at sight of a valid certificate. Subscription orders valid until cancelled, notices 6 weeks before end of the year. Subscription orders can be revoked within 1 week in writing. Dispatch complaints are possible only within 4 weeks after publishing date.

The publishing house is granted the exclusive right, with regard to space, time and content to use the works/ editorial contributions in unchanged or edited form for any and all purposes any number of times itself, or to transfer the rights for the use of other organizations in which it holds partnership interests, as well as to third parties. This right of use relates to print as well as electronic media, including the Internet, as well as databases/data carriers of any kind.

All names, symbols etc. mentioned and/or printed in this issue may be registered trademarks of their respective owners.

Print run: 20,000

Printed by
pva Druck und Mediendienstleistungen GmbH
D-76829 Landau/Pfalz

Printed in Germany
ISSN 2190-4367

WILEY

ACUSENSE TECHNOLOGY
INTELLIGENT FALSE ALARM REDUCTION AND TARGET SEARCH FEATURES

With Hikvision's AcuSense technology, small and medium businesses can incorporate the latest advances in deep learning technology into their existing security systems with just one AcuSense camera or one AcuSense DVR/NVR.

AcuSense