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GIT

MAGAZINE FOR SAFETY AND SECURITY

SECURITY

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Security for Ports

Access Control Solutions

Fire Protection

GIT SECURITY AWARD 2020

Video Management

IFSEC 2019

**COVER: SALTO
COMPLETE ACCESS CONTROL**

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AI Delivering Actionable Results

Complete Video Security Solutions

Avigilon provides complete security solutions that are powered by AI, enabling you to quickly search volumes of video data across terminals, checkpoints and perimeters to identify important information for effective decision making.

Focus of Attention

Avigilon Control Center™ 7 video management software introduces a new concept in live video monitoring, Focus of Attention, which leverages AI and video analytics technologies to determine what information is important and should be presented to you.

Powerful Search

Avigilon Appearance Search™ technology uses AI to sort through hours of video with ease to quickly locate a specific person across an entire site in near real-time.

Conquer the Dark

The Avigilon H4 VGA Thermal camera is embedded with our self-learning video analytics to provide long-range perimeter protection and leverages thermal technology to operate under challenging conditions while minimizing false alarms.



See our product demos at IFSEC 2019 – Stand IF1810

avigilon.com/airports | asksales@avigilon.com

Products, Solutions and Partners



What do you need to succeed?

The answer depends on who you ask. Some technology providers state that the basis of the best working systems are innovative and solid products, best-of-breed in the industry if you want. Others praise their integrated solutions and say that they do not want to be recognized as product companies, but prefer to be called solution providers. Partnerships are probably the next level. When you talk to members of the security industry you sometimes get the impression that nobody wants to sell something, but everybody wants to partner. Customer events are now called partner events. Vendor relationships are handled by partner managers and the search for web shops may lead to partner platforms.

Where is the truth?

I think it is up to you to judge what you need and what philosophy fits best to your requirements. As often the truth is somewhere in the middle. Yes, products are the basis of any system. Yes, fantastic products do not help you at all if they are isolated without a proper integration and yes, the best solution will not work for a long time if your industry partner does not give you the right level of support and updates the system. That is why we want to cover all aspects and report about products, solutions and partnerships.

We do support product innovation with GIT SECURITY AWARD. The award is going into the next round now. If you have a look at the great selection of products our jury has chosen for you on page 20 following, you will recognize that it is a tough decision to choose one product in each category. The voting tool is ready on www.security-award.com so please take some time and make your choice. You can vote until August 24th and you have one vote per category.

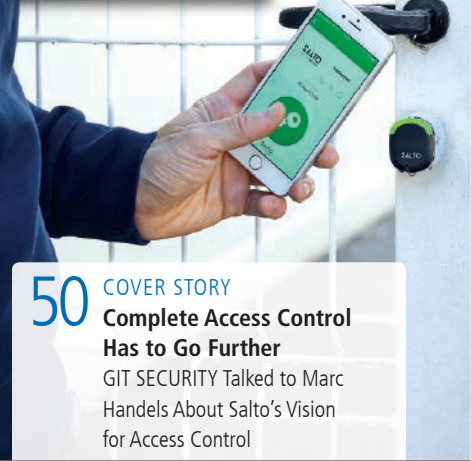
As always, we do not only inform you on technology and products, but also about the background of the companies that act in our industry. The interviews with industry leaders from Grundig Security, Milestone, Salto, STid, e-shelter Security, Innosent and Optex explain their strategies and provide you with information you may want to consider in future partnerships.

Are you looking for solutions? We can help. Genetec's solution for Chicago Police on page 18 is only the first in a series of articles in this issue covering innovative solutions for fire protection, security and safety.

If you want to prepare for a visit to Ifsec, you will find a show preview on page 14. Like every year, our team will be attending Ifsec and Firex in London in June. This year we will sponsor the VIP lounge at the show and have a presence there where you may also get a copy of GIT SECURITY. If you want to meet our team at the show, please feel free to schedule a meeting with us via the contact details on page 83. We are looking forward to see you there.

Enjoy reading this issue!

Heiko Baumgartner
For Wiley's Safety and Security team



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Connecting future airports!

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8 – 11 OCTOBER 2019

Munich Trade Fair Centre, Germany

www.interairporeurope.com

Organisers: Mack Brooks Exhibitions

Milan Smart City Conference in November 2019



During the Smart Building Expo and Sicurezza at Fiera Milano from 13–15 November 2019, the exhibition centre will also host the Milano Smart City Conference. There will be three days of international-level discussion on the smart city and the impact of new technologies at this technologically pivotal point in time. The introduction of 5G as an infrastructure will enable new applications in the urban environment – the testing phase in Italy is now drawing to a close in the five sample cities (Milan, Prato, L'Aquila, Bari and Matera) and deployment beginning. The Smart Building Expo and the Conference will cover the services tested in the sample cities. The Conference will highlight the potential and the advantages of technologies and applications designed for the urban environment: high-speed connectivity, sensors, big data analysis platforms, smart lighting, mobility and logistics management, just to give a few examples. The schedule has three focuses: the digital infrastructure with a particular emphasis on 5G; smart mobility and logistics as well as urban security and monitoring.

www.fieramilano.it

Veracity extends Channel Reach with new Ingram Micro Distribution Partnership

Veracity has signed a UK distribution agreement with Ingram Micro to extend the reach of its products to a wider partner community. Veracity's unique portfolio of IP transmission solutions and installation tools are also highly applicable and useful in markets such as video surveillance, VOIP, IT, transport, process control, data-logging, POE LED Lighting systems, building management, ticketing, safety monitoring and many other areas. Veracity products are respected worldwide with a strong reputation for high quality, innovative design, reliability and very long lifetimes. Veracity offers a full range of IP transmission network extender products and long-range wired Ethernet transceivers, all with POE, delivering the power and bandwidth your IP device needs over exceptional distances.

www.veracity.com

Milestone Systems annual report: Increased Investments and Solid Growth

Milestone Systems delivered significant and satisfactory financial results in 2018. The Group's net revenue increased to DKK 934m from DKK 881m in 2017, while the operating income (EBIT) grew to DKK 195m from DKK 171m. In 2018, Milestone Systems made strategic investments in several areas. The company also decided to accelerate innovation by increasing its development capacity by 45 per cent by the end of 2019. With the increased R&D investments in 2018 and 2019, the company wants to accelerate its position as an enabler of processing of video and data from solution partners in the security industry. The company will also be launching initiatives that address needs beyond security, such as industrial IoT solutions for smart cities and businesses. Milestone Systems employed close to 200 new colleagues in 2018 across markets, functions and nationalities. Substantial investments have also been made in the open platform community of partners.

www.milestonesys.com

Checking Cars In and Out Simplified for Hertz

When a business has a number of sites in different locations, one of the challenges is to bring the security function together at one place. Hertz sought a solution from reseller Vedetec for its Corsica operation, and they



used Hikvision products to monitor the entrances and exits of vehicles at five sites from the main site in Bastia as if there was only one car park. Twenty-nine ANPR (Automatic Number Plate Recognition) cameras and four PanoVu products were installed at the five Hertz sites in Corsica as part of a larger solution including embedded 4K NVRs and video management. Four ANPR cameras in front of each entrance gate read the license plate and, if it is in the database, the camera is triggered to record and the barrier is opened. The system is very important for Hertz's business because it saves manpower and makes their work more efficient. The project manager at Vedetec recommended Hikvision's ANPR camera in particular because it has great recognition accuracy, with a capture rate of up to 99% and a recognition rate of up to 98%.

www.hikvision.com

Flir Systems Awarded \$48.1M from U.S. Department of Defense

Flir Systems has received an award from the United States Department of Defense Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND) in support of the nuclear, biological, chemical reconnaissance vehicle sensor suite upgrade program for the U.S. Army. The agreement is valued at \$48.1 million, with execution extending through mid-2022. Flir will be the lead integrator in the modernization, and Flir will develop a platform-agnostic modular mission payload that integrates multiple chemical, biological and radiological sensors into a flexible command and control (C2) system. This will allow for data integration from the various sensors that will enable automation of certain tasks, reducing warfighter burden. The C2 system and the automation will allow for collaboration between manned Stryker vehicles, unmanned ground vehicles (UGVs), and sensor integrated drone platforms.

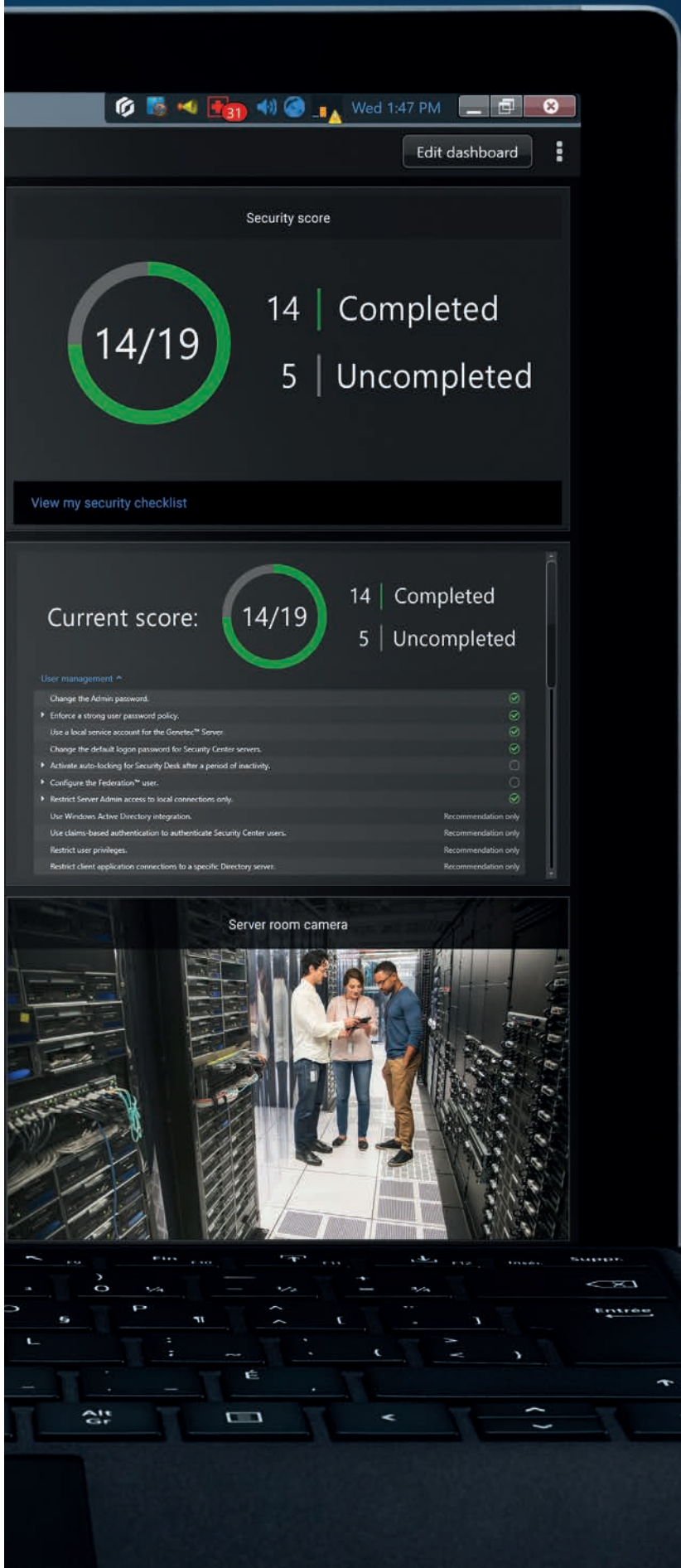
www.flir.com

Euralarm's Annual Report 2018-2019 Published

Euralarm has published its Annual Report 2018-2019. The period was a year of change for Euralarm. With a new President, Board, General Director and section leaders in place and the final integration of the extinguishing section into the overall structure, the association is ready to move forward into the future. The annual report covers the period between the General Assemblies of the association. A running theme of the report is Euralarm's work on building strategic alliances, underlining the importance and necessity of co-operation in the fire safety and security business. It ensures that Euralarm's voice is heard in Brussels both on the political and the standardisation side. New technologies, changes in the macro-economic environment, the new EU parliament and the reshaping of the international landscape will give Euralarm challenges and opportunities. Against this background it is important for Euralarm to create wide acknowledgement among European politicians and policy makers and to keep these and other relevant stakeholders involved in the industry. Communication is the key word here.



www.euralarm.org



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The German Parliament: A Constantly Growing Locking System

On 19 April 1999, the keys of the old and, at the same time, the new Reichstag building were symbolically handed over. In September of the same year, the German Parliament had completed its relocation from Bonn to Berlin, and since then it has been using the historical building as its seat. Weckbacher, Ces partner and security specialist, had won a Europe-wide tender and was awarded the contract for planning, delivering and installing a grand master key system. In close co-operation with Ces, the complex locking system was planned and designed in such a way that its use could easily be expanded.

The Building

In accordance with the concepts developed by the architect Sir Norman Foster, the building, which dates back to 1894, was fundamentally transformed. Today, the parliament building is accessible via four entrance areas, and it consists of three upper floors, one mezzanine floor, and a characteristic glass dome. The plenary hall is located in the centre of the building and opens up to the glass dome. A vast number of rooms, such as assembly rooms for the Chancellor and the Federal President, the parliamentary groups, for the President of the Federal Parliament and their staff members, information rooms for visitors and press members, and many more, need to be opened and closed.

The Expansion

In the beginning, the grand master key system comprised around 10,000 cylinders and more than 50,000 assigned keys. Meanwhile, the system has been grown to over 25,000 cylinders and 125,000 keys. Over the years, additional buildings such as the Paul Löbe building, the Marie Elisabeth Lüders building and the Jakob Kaiser building, have become part of the German Parliament building. Originally the locking system was purely mechanical, but through the integration of electronic locking devices it has morphed into a mechatronical locking solution. Because of the far-sighted planning of the grand master key system, which took into account future expansion, the end of the road hasn't yet been reached. In the future, particularly after elections, access authorisation will change, keys will change hands and further electronic locking components will be integrated without any safety gaps: this locking system keeps growing and growing.

www.ces.eu

Euralarm welcomes new Member Halma

Following a decision of its Board, Euralarm has welcomed its newest member Halma plc. The company will join the Fire Section of Euralarm. Halma will now benefit from Euralarm's services in terms of representation towards European institutions and standardisation organisations. This includes the monitoring of legislative and standardisation issues relevant to the industry. Halma will have access to the extended network of national associations and major companies in the electronic fire safety and security sectors, which form Euralarm's members. The new membership will create opportunities for both sides, as it also strengthens the association.

www.euralarm.org

Daniel Gundlach Named Vice President and General Manager of Flir's Security Division

Flir Systems has announced that Daniel Gundlach has been named Vice President (VP) and General Manager (GM) of the Security division within the Commercial Business Unit. Gundlach will lead all facets of the Security business, including strategy development, product innovation, sales and marketing, and operations. Gundlach joins the company from Apollo, a UK-based fire detection company, where he served as VP of Sales and Marketing. Prior to this, he spent nearly 20 years at Bosch, including seven years as the VP of Marketing and Business Development for their Security and Safety Systems business. He served in numerous roles during his tenure at Bosch Security and Safety in both the United States and Europe, including VP of Marketing, VP of Business Development, and Chief of Staff to the President and CEO of Bosch Americas. Gundlach has a Master of Science degree in Physics from the University of Hannover, Germany and a Bachelor of Science in Physics from the University of Rostock, Germany.



www.flir.com

Idis 5MP Super Fisheye Compact is Benchmark Award Finalist

Idis's 5MP Super Fisheye Compact camera has been confirmed as a finalist in the 2019 Benchmark Innovation Awards, the latest in a string of successes for the company's fisheye technology. The Innovation Awards announced annually by industry-leading Benchmark Magazine and judged by the Benchmark test team and an independent panel, recognise technology developments that deliver significant and tangible benefits to installers and end-users. Idis's new Fisheye Compact (DC-Y6513RX), which will also feature strongly at Ifsec (Stand IF1110) International this year, is an all-round high-specification camera that can be used to record activity – reliably and affordably – in a wide range of environments. As with earlier models, it has been developed to meet demand for outstanding image capture, security against hacking, reliability against data loss, ease of installation and low cost of ownership with smoother, and easier operability.

www.hidglobal.com

Martin Bemba is the New Top Man at Abus Security Center

Martin Bemba (52) was appointed Chairman of the Board of Abus Security Center GmbH & Co. KG on 1st May 2019. Bemba has been active in the security industry for over 30 years, including many years of international experience in Ireland and the USA. With immediate effect, Martin Bemba will head up Abus Security Center as Chairman of the Board together with CEO Ulrich Kastner-Jung. Bemba has a deep understanding of the industry and also many years of international experience in management. Most recently, the electronic graduate and Doctor of Business Administration was the CEO of an international concern for eight years. Apart from his business career, Bemba has been a Member of the Board of the ZVEI (the German Electrical and Electronic Manufacturers' Association) since 2014. „We are very pleased to have gained an internationally experienced industry expert in Martin Bemba to lead Abus Security Center“, explained Christian Bremicker, Managing Partner of the Abus Group. „Our company will further concentrate its focus on the development and production of innovative electronic security technology in this era of digitalization under his leadership“, said Bremicker.



www.abus.com

Gallagher Security Reinforces Top Team

Gallagher continues to bolster its top team in preparation for the retirement of its long-standing chief executive and chairman. Gallagher has promoted Mark Junge to Global General Manager for its highly successful security division from his most recent role as chief operating officer. Junge has been with Gallagher for more than 13 years and



Mark Junge



Richard Huison

on the security division's leadership team for six years. He has stepped up into the role vacated by Kahl Betham, who has moved to deputy chief executive of the group. In January, Richard Huison stepped up to General Manager for UK & Europe a year after joining Gallagher from Vanderbilt Industries access control brand ACT. The recent moves are part of the leadership succession plan following the announcement last November of current chief executive and chairman Sir William Gallagher's intention to retire to an executive director role within the next two to three years. security.gallagher.com



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Zaun's Security Fence Resisted 20-Minute Sustained Attack

A development fencing system based on Zaun's Corrussec resisted serious attempts at forced entry for over 20 minutes with tools including reciprocating saws and angle grinders in independent tests by Buildings Research Establishment (BRE) assessors. Independent testers from BRE mounted a sustained attack on the Zaun development fence, loosely based on an SR5 'serious attempt at forced entry'. They used top end battery power cutting tools including an awesome 750 watts reciprocating saw with specialist blades used by fire and rescue teams and 18V circular saws, jigsaws and disk grinders, axes including an 850mm felling axe, a hooligan bar, 1.5kg lump hammer and 500mm long bolt cutters. Henman said: "Even with this astonishing arsenal, testers took more than 20 minutes to create this larger breach. The fence, which uses a clever combination of materials and geometry to maximise resistance, needed to survive for only 10 minutes to pass the client's test." www.zaun.co.uk

Hikvision hosted the Second AI Cloud Summit in Hangzhou

Hikvision successfully hosted the second 'Shaping Intelligence' AI Cloud Summit at Hangzhou Whitehorse Lake International Exhibition Centre. Under the theme of 'Data Enrichment with AI', the summit served as a platform for AI Cloud ecosystem partners to exchange knowledge on leading-edge AI and big data technologies and applications. It comprised a main forum and four sub-forums on the topics of Finance, Commerce, Public Services and Smart Governance for Cities. Over 3,000 participants took part, including Hikvision customers, industry leaders, academic experts and partners. One of the most important topics discussed at the conference was how Hikvision's AI Cloud platform can support the integration of IoT and information network data in order to drive the future development of new, intelligent applications. In addition, Intelligent Transportation System (ITS) was showcased including Intelligent Buses, Intelligent Road Networks, Intelligent Airports and Intelligent Railway Systems, all designed to boost passenger safety and enhance the travel experience. www.hikvision.com



www.GIT-SECURITY.com

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Inter Airport Europe 2019: Connecting Future Airports

Inter Airport Europe 2019, the 22nd International Exhibition for Airport Equipment, Technology, Design & Services will take place at the Munich Trade Fair Centre in Germany from 8–11 October 2019. To date, a net exhibition space of almost 30,000 square metres has been booked already, indoors and outdoors. The last event in 2017 closed with a record visitor number: 13,854 trade visitors from 111 countries took part in inter airport Europe 2017. So far, 460 exhibitors from 35 countries secured their stand at this year's leading trade exhibition for the airport industry. The most important exhibitor countries are Germany, the USA, France, Great Britain, Italy, the Netherlands, Spain, China, Austria, Belgium and Denmark. Around 80% of the available stand space in the halls and the outdoor area is already booked, with 17,000 square metres outdoors and more than 12,000 square metres in the three exhibition halls. For this year's event, the main trends are digitalisation and interconnectedness. This includes apps for passengers, facial recognition and self-boarding in the terminal and technology for predicting queue times to dynamically resource staffing. Furthermore, renewable energy and the decrease in CO₂ emissions during ground operations are gaining importance within the industry as well as the redesigning of airports. The improvement of passenger experience is also a main focus, for example when designing rest and seating areas which now feature more comfortable seating options and innovative solutions for sound absorption. Further potential in the airport industry is expected due to a rise in passenger figures which according to ACI Europe, the Airports Council International, increased by 6% at European airports last year. It is anticipated that this will lead to increased investments in the upcoming years.

www.interairportheurope.com

Onvif: Access Control in Smart Building Environment at ISC West 2019

Onvif participated in ISC West 2019 with a presence in the exhibition as well as a speaker in the educational programming. Onvif hosted the Onvif Lounge where attendees could catch up with Onvif for latest updates and also relax and recharge their mobile devices. In addition, Onvif also took part in a panel discussion from SIA Education@ISC, the Security Industry Association's educational programming at ISC West. Bob Dolan, Director of Technology, Anixter, Per Björkdahl, Chairman of the Onvif Steering Committee, and Bryan Montany, principal analyst, IHS Markit's Access Control Intelligence Service, presented the panel discussion "Driving the Future: How Interoperability Standards in Access Control Can Enable Smart Building Success." The goal of the session was to highlight the importance of an open platform approach as a building block for future IoT functionality by discussing the role of access control systems within a smart building environment. www.onvif.org

Nelysis joined the "Mobotix Partner Society"

Nelysis, the market leading provider of cyber security solutions for physical security networks, has joined the "Mobotix Partner Society" as a Technology Partner. Commenting on the partnership, Enrico Dani, CEO of Nelysis Europe, said: "As a Mobotix Technology Partner, we provide possibilities to further expand the deployment and functionalities of Mobotix systems in order to satisfy the need for dedicated cybersecurity solutions. We are very proud that our technological know-how adds value to Mobotix unique technology in order to deliver total cybersecurity and network security." The combination of Nelysis's NCM Vanguard with Mobotix products provides Integrators, Dealers and Distributors with a complete solution specifically designed for network security and edge devices in order to monitor the entire network, detect intrusions and cybercrime threats, and mitigate automatically their effects. Nelysis successfully showcased its Vanguard Network Cyber Management solution at Mobotix Innovation Summits in Athens and Langmeil. www.nelysis.com

Intersec Saudi Arabia 2019 Gets Underway

The 3rd edition of Intersec Saudi Arabia got underway, with 111 exhibitors from 20 countries zooming in on the Middle East's largest commercial security and fire safety market. Running for three days at the Jeddah Centre for Forum and Events, Saudi's foremost security, safety, and fire protection trade show targets the Kingdom's vast market which is estimated to grow at an annual compound growth rate of 7.7 percent over the next seven years. It was opened yesterday in a pre-show ceremony by Lt. Gen. Sulaiman Al-Amr, the director-general of Saudi Arabia's General Directorate of Civil Defense. With 69 percent international participation, more than 500 brands, and an enlightening three-day conference programme, Intersec Saudi Arabia caters to growing demand for an integrated platform providing crucial access to one of the world's most promising markets. www.intersecexpo.com



The Open Security & Safety Alliance Propels Into 2019

The newly established Open Security & Safety Alliance (OSSA or 'the Alliance'), a non-profit, non-stock corporation formed to outline specifications for a common standardized platform for security and safety solutions, announced that since its formation in Fall 2018, the organization has grown by 50% and initiatives are in full-swing. The Alliance is quickly attracting players ranging from device manufacturers, software developers and system integrators to distributors and system on a chip (SoC) companies. "We're extremely pleased OSSA is drawing strong support from progressive companies across various sectors, as our purpose is to all start from a common platform business model to spur innovation and add real value for customers and users as they manage and monitor property, people and surrounding circumstances," said Johan Jubbega, President, Open Security & Safety Alliance. "Each new member brings diverse insight and expertise to the bigger picture we're working to bring into focus for stakeholders in the security, safety, building automation solutions and associated industries."

www.opensecurityandsafetyalliance.org

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Bee'ah Selects Johnson Controls and Microsoft for its Office of the Future

Executives from Johnson Controls, Microsoft and a Middle East sustainability company, Bee'ah, announced an agreement to enhance Bee'ah's new headquarters in Sharjah, United Arab Emirates, with a sweeping array of artificial intelligence (AI) and smart building solutions powered by Microsoft. Using its Digital Vault offering, Johnson Controls will outfit the new building with intelligent edge systems, devices and software designed to optimize energy efficiency, make the best use of available space and help the building's occupants be more productive. Evoteq, Bee'ah's digital venture, will serve as the technical project management partner, deploying integrated solutions and enhanced digital capabilities for greater operational output. Designed by Zaha Hadid Architects, Bee'ah's futuristic new headquarters will be fully powered by renewable energy and optimized to have zero net energy consumption and achieve a LEED platinum certification — the highest recognition awarded to green buildings. Johnson Controls will deploy a technical infrastructure for the building capable of monitoring its entire environment virtually with Microsoft Azure Digital Twins and IoT technologies. www.johnsoncontrols.com

Vanderbilt and ComNet Highlight Customer Journey ,Value Adds' at IFSEC

Vanderbilt will jointly attend this year's IFSEC International with sister-company ComNet on Stand No. IF1520 at ExCeL in London. In addition to their flagship products and prominence in open platforms and integrations, both companies, under the ACRE banner, will also highlight their ability to aid customers in every step of their security journey. Vanderbilt's close relationship with its sister-company means it also has access to an in-depth transmissions and connectivity portfolio. This allows it to support customers with products and services ranging from hardened Ethernet, commercial Ethernet, extended Ethernet, wireless Ethernet, optical interfaces and power systems. The all-round solution companies harness numerous tools to complement a buyer's journey from start to finish, including warehousing and distribution channels, in-country engineering, technical and sales support teams, both online and offline orders, returns and repairs, plus training support. IFSEC takes place between the 18th and 20th of June. www.vanderbiltindustries.com

Arecont Vision Costar appoints New VP of Technical Services

Arecont Vision Costar announces the appointment of Troy Fairchild as Vice President of Technical Services, Costar Technologies. Arecont Vision Costar's Technical Services organization includes skilled Field Application Engineers (FAEs) who primarily provide pre-sale technical and configuration support. This includes both remote and onsite assistance to authorized security dealers and integrators, working in conjunction with both the Arecont Vision Costar's Inside Sales team and the regional sales managers and sales directors based in their geographic regions. Technical Support Engineers (TSEs) are also critical members of the Technical Services team, focused on post-sales customer issues, ranging from diagnosing hardware and software issues to troubleshooting complex situations to resolve problems. www.arecontvision.com



3xLOGIC, Pac GDx and Pacom at IFSEC International 2019

The three providers of security and access control solutions, have announced they will be exhibiting on stand IF2930 at IFSEC International 2019, which takes place on 18th–20th June at ExCeL, London. Innovators in server, cloud and artificial intelligence-based solutions, 3xLOGIC launched into the European market earlier this year, and will exhibit its diverse range of products as well as demonstrate their integration capabilities, including integration of its NVRs and standalone cameras into Pacom's GMS and Unison product lines. The Visix facial recognition camera is making its European debut at IFSEC 2019. This special purpose, low cost, dual lens 2MP device is designed for instant face detection and the identification and notification of persons of interest. The new Pac GDx Bluetooth-based card reader technology will be available for product demonstrations and experts on hand to discuss a new online training programme that has been developed to enable installers and end users to get the very best out of their Pac GDx solution. www.pacom.com

Funkwerk Concludes 2018 with Turnover and Profit Growth

The group turnover grew by 6.5% to €82.7m (2017: 77.6); company earnings improved by 59.5% to €11.4m (2017: 7.2). The prognosis for 2019 is an increase in turnover of at least 6%; earnings of around €10m are expected. The Funkwerk concern, a provider of communications, information and security systems, was able to exceed its targets for the 2018 business year. The good results were in particular due to increased core business, a product mix with healthy margins and full order books. In addition, the abolition of reserves from the previous year to do with a process in Algeria helped bolster profitability. The Board and Governors will recommend a dividend of 0.30 (2017: 0.25) Euro per share to the Annual General Meeting from the net profit of the parent company Funkwerk AG, which amounted to around €2.5m. This corresponds to a dividend distribution of €2.4 (2017: 2.0). To capitalize on upcoming technology opportunities, IoT applications will be continuously integrated in Funkwerk systems in the three business divisions of Train Radio Systems, Traveler Information as well as Video Systems. www.funkwerk.com

Winner of the MSIEA 2019 Award

Coselec – Deister's distributor in Malaysia - has collected the prestigious MSIEA 2019 Award for Security Product of the Year for the proxSafe RFID Electronic Key Management and Smart Storage System. Presented at IFSEC Southeast Asia in March, the award recognizes best practices and the best security products. The independent judges come from the security industry. The proxSafe RFID electronic key management and smart storage system was first introduced in 2003 and has won many accolades and prizes from different security shows. Operation of the system is very simple, functional and secure. It intelligently identifies who has the essential keys/assets by controlling who has them with a full audit and reporting capabilities. Users are identified by a card, a pin or biometrics, allowing them to only take the items that they are authorized to have. The system is modular and scalable, making expansion simple. www.deister.com

Digitization of Time Management

Zeus software from Isgus actively informs as soon as certain settings, balances, remaining holidays or other conditions are reached. The degree of automation in the human resources department can be significantly increased using the integrated solution for working time management, staff planning and plant data collection. A milestone to becoming a digital factory, the plant data collection (PDC) records working times, processing times as well as good and rejected quantities per order and operation. These data can be automatically reported to an ERP solution. The PDC calculates busy time, downtime, throughput time, productivity, effectiveness, OEE index and a variety of other production metrics. This enables the analysis of different production areas on the basis of objective parameters. www.isgus.de

Nelysis Appoints HSI as Distributor for Slovenia

Nelysis, a provider of cyber solutions for physical security networks, has announced the new partnership with HSI from Novi Mesto in Slovenia. HSI will distribute Vanguard, a cyber management system specifically designed for network security, which is able to detect, recognize and mitigate a wide range of cyberattacks. Commenting on the appointment, Emanuele Novello, Sales director of Nelysis Europe said „I have always seen HSI as an engineering hub, as a partner designing, supplying and delivering high level complete solutions for their integrators. HSI collaborates with the best brands in the market, and I am honored to be amongst these.“ Ales Ribic, owner of HSI, commented: „We would like to enhance our offer to the market, giving the proper solution to the increasing demand for security against cyberattacks. Vanguard is the right solution for new installations as well as for protecting existing networks without compromising or modifying their layout. www.nelysis.com

Traka at Ifsec 2019 with Global Integration Solutions

Traka is attending Ifsec 2019 to showcase the latest advances in key and asset management, together with innovative technical development and integration capability, developed as part of its journey to becoming a Global Solutions provider. On stand IF105, Traka will unveil its latest generation Traka Web software, offering remote administration with the benefits of faulty item exchange, fleet management and full audit control capability. It can be recorded with instant email notifications linked to specific item movements. Traka will also be highlighting its integration credentials with leading access control providers, to present increased efficiency, resource and significant cost savings, without compromising on safety or security. www.traka.com

LenelS2 and Milestone Systems Expand Strategic Partnership

The companies have announced a 10-year agreement for LenelS2 to distribute Milestone products globally. This expands their previous agreement for North America. The joint offering of LenelS2 OnGuard access control and Milestone XProtect video management software lowers the total cost of ownership for end users and integrators by offering reduced licensing fees and efficient pre and post-sales support. Kenneth Hune Petersen, chief Sales and Marketing Officer at Milestone Systems, commented, „Rather than being locked into a single provider, customers can work with two companies that have real synergies. As security threats become more sophisticated, continuous innovations with strong interfaces between industry leaders are in demand. That’s what this alliance delivers.“ Both companies offer open platform solutions that give customers the flexibility to select the optimal security systems to meet their needs. Milestone Systems has been a member of the LenelS2 OAAP since 2012.

www.milestonesys.com

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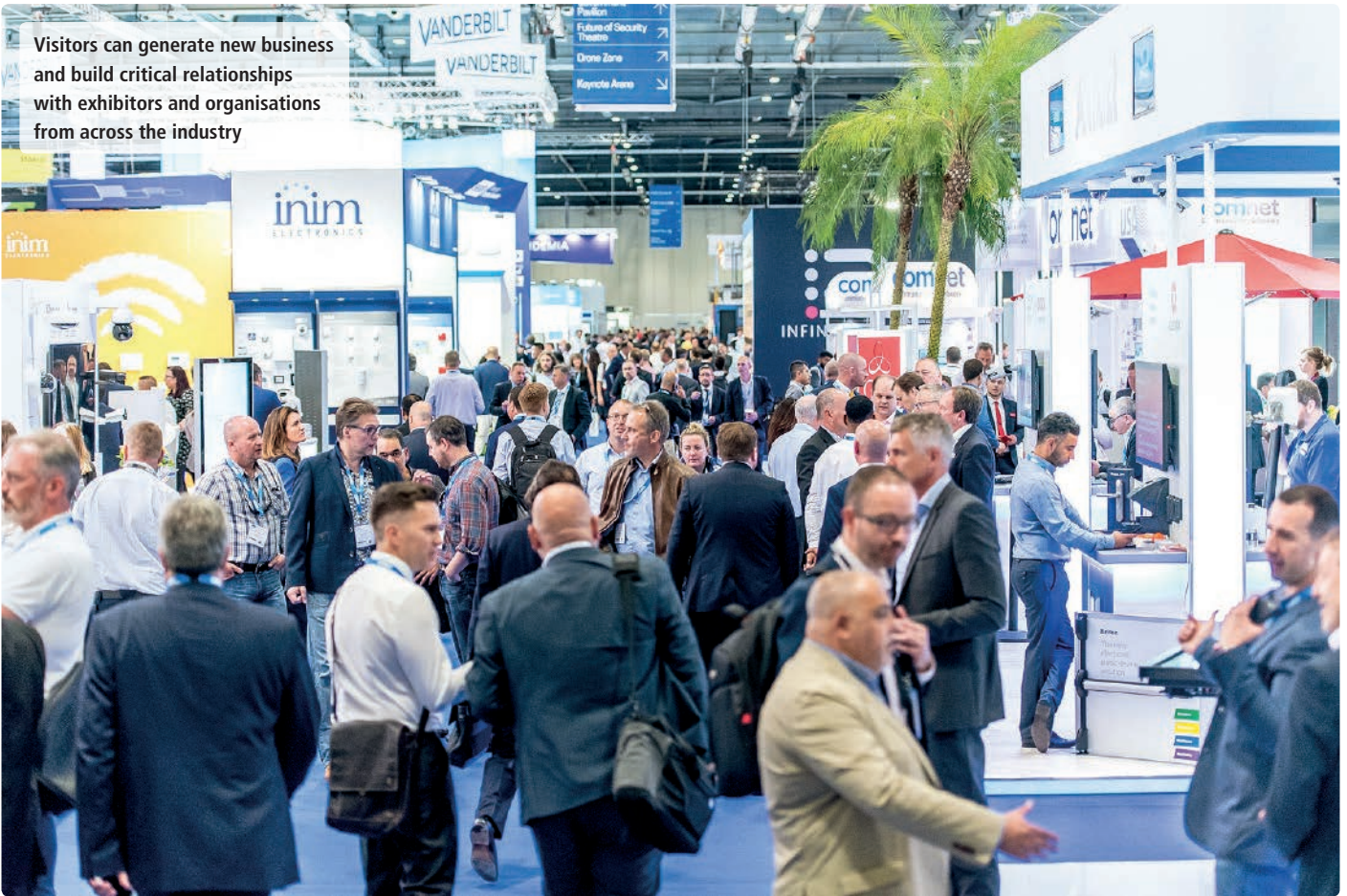
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Visitors can generate new business and build critical relationships with exhibitors and organisations from across the industry



EVENT

Meeting Point London

Join the Global Security Industry at Ifsec International 2019

Taking place at 18-20 June at Excel London, the event brings over 27,000 visitors together with over than 500 exhibitors, showcasing more than 10,000 security products alongside a world-class programme of expert-led seminars, case studies and presentations and a bespoke networking experience.

Visitors can not only source products, but also see for themselves exactly how effective they are. Exhibitors can prove the efficacy of their products in live demonstrations and dedicated testing zones.

Ifsec's 'Show Me How' feature gives you the chance to see on-stand product demonstrations, posing your questions directly to the dedicated technicians behind the tech. This gives you a unique opportunity to learn how products are installed, operated and maintained, ensuring your security strategy – whether you're an installer, integrator, consultant or end-user – is based on practical knowledge.

This provides you with a unique opportunity to see not just solutions across physical security,

but also the most innovative technology in action, including deep learning analytics, behavioural biometrics and smart locks, so you know exactly which products you can trust.

LPCB Attack Testing Zone

Show Me How also extends to the LPCB Attack Testing Zone, one of the most exciting features at Ifsec International. This area lets LPCB members put their accredited perimeter defence equipment to the test, demonstrating the performance difference between certified security equipment and products which – while seemingly similar – fail to deliver equivalent levels of protection.

Technicians will conduct exciting live attack tests on a wide range of perimeter and façade

security products, as well as safes, security enclosures and padlocks, featuring products from leading suppliers such as Abloy, CLD Fencing, Insafe, Jacksons Fencing, Kingsley Plastics and Sunray Engineering among others. These rigorous tests help you source and identify the solutions best suited to your security strategy by proving their efficacy live on the show floor.

Keynote Arena

Ifsec's comprehensive agenda of seminars, speeches, case studies and presentations comes in at over 35 hours of content hosted in several dedicated theatres.

At the Keynote Arena, security journalist Frank Gardner presents a world-class agenda of security

thought leadership from global experts. World-renowned speakers and industry leaders will discuss and debate some of the most critical issues facing the security industry, from cybersecurity and ethical and legal challenges to extremism. This year, video analytics, AI, machine-based learning, a year of GDPR, Brexit and smart cities are all on the agenda, overseen by security journalist Frank Gardner, the returning Keynote chair.

Theater: Areas of the Security Industry

Alongside the Keynote Arena, Ifsec International offers several theatres dedicated to specific areas of the security industry. At the Future of Security Theatre, brought to you by our education partner Tavcom, experts and industry leaders share their visions for the future of security, offering demonstrations, presentations and Q&As about critical topics and technologies, providing installers and integrators essential knowledge on how to adapt their business to the future.

Meanwhile, the Converged Security Centre offers educational sessions and seminars on the transformative value of integrating physical and cyber security. Across three days, this theatre will present a wide range of simulated security scenarios covering transport, utilities, open spaces and infrastructure, and reveal how integrated security systems and supplementary information sources

such as social media can provide end users with a unique security strategy.

A Global Hub for Security Industry

With over 500 security suppliers exhibiting at Ifsec International 2019, visitors can gain an intimate picture of the entire security market. Among the exhibitors confirmed are HID Global, Cortica, CSL, Jacksons Fencing, BT Redcare, Genetec, Traka, Vidsys Inc., AnyVision, Hisilicon, Abloy UK, Anixter, Avigilon, MIT Technologies, Azur Drones, Hanwha Techwin, Idis and Texcom.

Furthermore, Ifsec attracts the support of major industry bodies, including British Security Industry Association (BSIA), The Security Institute, Building Research Establishment/LPCB – as well as accreditation bodies NSI and SSAIB.

You can also discuss products and developments with organisations on the show floor. The BSIA has its own dedicated stand, while technical experts from interoperable building safety suppliers demonstrate their solutions at the Plug & Play and Trade Counter stands respectively.

Exclusive Networking Opportunities

And since networking is at the very heart of Ifsec, you have the chance to meet, share ideas, generate new business and build critical relationships with exhibitors and organisations from across the

industry. It's now easier than ever to tailor your visit to Ifsec around these meetings thanks to the 1-2-1 Meetings Service, which lets you build an agenda of pre-arranged formal meetings with the suppliers most important to you.

But the event also facilitates informal, impromptu meetings with peers, clients and old colleagues in a range of meeting spaces, from relaxed park areas to lounges and bars including the SSAIB Ice Bar. VIP guests can secure exclusive access the VIP & Hosted Buyers Lounge, where visitors have the opportunity to build connections with high-profile facilities management professionals.

Fire Safety and Security Together

The Ifsec International 2019 ticket lets visitors enhance their security strategy with complementary access to three co-located events: Firex International, Safety & Health Expo and Facilities Show, focused on fire protection, health and safety and facilities management respectively.

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www.ifsec.events/international/GIT

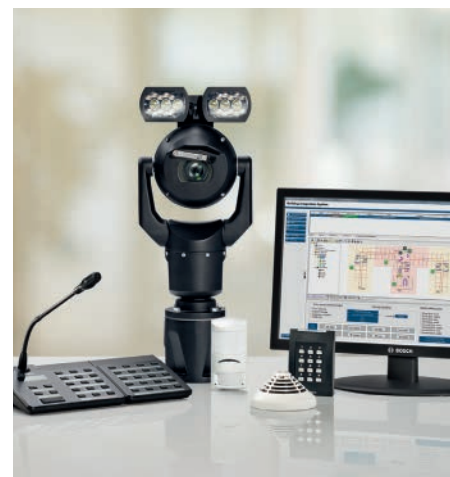


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Sicurezza 2019: The Positive Trend Continues

A Roadshow Provides a Preview of the November Security Trade Event

With security an ever more pervasive concern, the challenges for professionals, on which the exhibition will focus, are continuing to grow. And in the run up to the event, the international roadshow will be making its next stopover in London.

Sicurezza 2019, to be held at the Fiera Milano from 13 to 15 November this year, is continuing to grow. Six months before the exhibition, one of the main events in Europe, the leading brands in the security industry have already booked their participation. The exhibition will feature two major novelties: a more organic layout with 4 adjoining pavilions, and exhibition areas divided by product type.

Video surveillance and burglar protection will occupy parts of pavilions 5 and 7, with separate areas in the same pavilions dedicated to fire equipment (pav. 5) and drones (pav. 7). Pavilion 10, on the other hand, will be focusing on passive security and access control, showcasing solutions for residential, urban, industrial and commercial applications. Pavilion 6, in line with the mission of Security, will be hosting the Smart Building Expo, with an expanded focus on the smart city and alternative energy solutions in addition to the smart building itself.

Mission Internationalization

Meanwhile, the European roadshow showcasing Sicurezza 2019 to professionals, along with the opportunities offered by the Italian market, continues its journey. The next stop is in London where, on 19 June, Sicurezza 2019 will make a presentation to security professionals and the international press at an informal cocktail evening.

To multiply business opportunities for exhibitors at Sicurezza 2019, the scouting initiative, which will bring together top hosted buyers selected for their spending potential and geographical origin (Europe, Balkans, Mediterranean basin, Middle East, Maghreb, Russia and ex-CSI countries), has also started. Thanks to My Matching, Fiera Milano's online match-making service, exhibitors and buyers will be able to select and assess business profiles before the event starts, and set up a schedule of appointments for the exhibition itself.

Training: the Key to Meeting Security Challenges

Sicurezza 2019 will not only be the showcase for the most innovative solutions currently available on the market, but also an opportunity for updating professional competencies. This need is increasingly being expressed by industry professionals, faced with a market that never stands still. The convergence between physical and logical security, the integration between technologies, the transition from standalone products to integrated solutions and new regulations resulting from the application of the GDPR have completely revolutionized the world of security, demanding new competencies not only from system designers but also installers.

The technological revolution is ongoing, and while on the one hand it has kept the market

alive, keeping turnover up despite the persistence of down-pricing on the other demands constant training and professional qualification. This is especially true for installers who have not yet fully understood the combination of opportunities and risks that are emerging in this new scenario.

The use of artificial intelligence and advanced tracking and recognition solutions, based on biometric and other identification data, is making security systems ever more powerful and adaptable to any application, but also more vulnerable. They open doors to what is now the true value of any company: its data, its information. And this is not only true of video surveillance in which the matter of privacy has long been dealt with, but also for residential solutions, from intelligent door panels to domotics, which may become back doors into the home network.

The training program at Sicurezza 2019 will make cyber security and privacy one of its main areas of focus. The exhibition's training programmer will deal with topical issues, and in many cases offer training credits issued by the associations of engineers and technical experts.

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VIDEOMANAGEMENT

Intelligence Gathering

Using Genetec Citigraf to Curb Chicago's Crime Wave



The windy city is home to the Sears tower, the Hancock and, infamously, was also home to mobsters like Al Capone during the prohibition era. Chicago has reportedly a population of over 100,000 active gang members from nearly 60 factions. Chicago's biggest criminal justice challenges have changed little over the last 50 years and statistically reside with homicide, armed robbery, gang violence and aggravated battery. In its effort to fight back, the Chicago Police Department decided to use technology to tackle its crime issue.

We were experiencing a record high number of shootings and murders in 2016," said Jonathan Lewin, Chief Bureau of Technical Services at the Chicago Police Department (CPD). "It was a tough year. The mayor and the superintendent knew that something had to change."

With such a high level of crime, the CPD – which with 22 police districts and approximately 12,600 officers is the second largest police department in the United States – has a great amount of data at its disposal, but found itself unable to fully utilize it to effectively make a difference in its crime fighting strategy. The city used information sources from Shotspotter, a gunshot detection

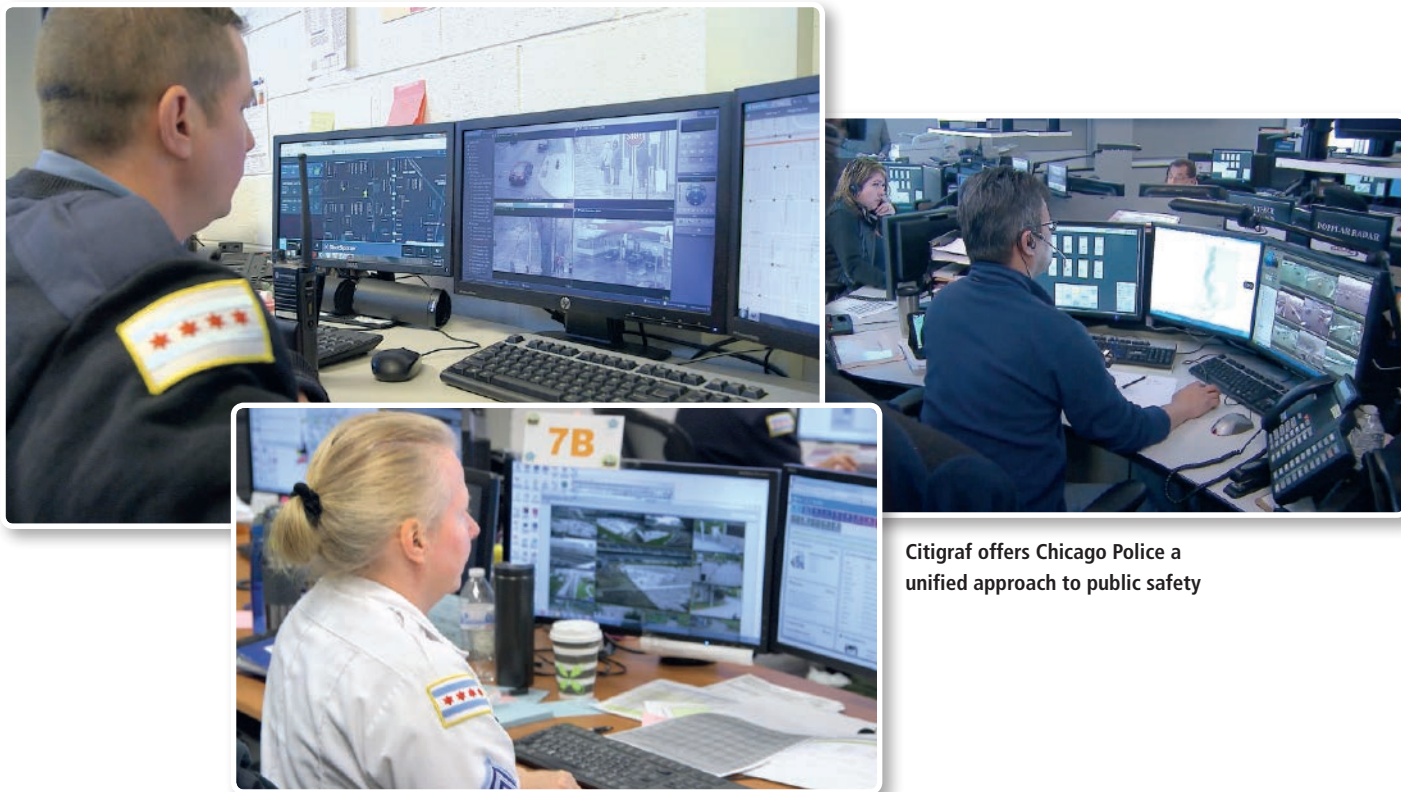
solution, real-time GPS on police vehicles, criminal incidents, arrests and information on criminal gang members. A key issue was that these information sources were spread across multiple platforms, meaning that users had no one single view on any incident with a 'single plane of glass'.

Similarly, the police department had 400 subject matter experts who were unable to share and disseminate their knowledge with other cities/suburbs or districts. Two further issues facing the CPD were financing and the tight timeline of kicking off and introducing the project. Chicago's crime epidemic, combined with the restrictions of a tight budget, meant that the CPD needed a system that could be quickly implemented. Any system was re-

quired to deliver instant results and deliver significant value for money.

First-hand Experience

Unable to find a solution that directly addressed the functionality that was required, the CPD challenged Genetec – which was already a supplier of security solutions to the city of Chicago and the CPD – to create the single platform. Through this process, Genetec used the opportunity to expand its product line to create what would become Citigraf. In order to get a better understanding of the situation at hand, engineers from Genetec went on ride-alongs with the officers and became embedded in the districts for a period of time. This al-



Citigraf offers Chicago Police a unified approach to public safety

lowed Genetec to fully comprehend the challenges facing police officers, the nature of the crimes taking place, and the variety of sources that housed valuable data.

Giovanni Gaccione, Justice & Public Safety Group Lead at Genetec, said: "The team that was here talking to Chicago saw this as an expansion of the Genetec product line and that this could be really something beyond what we currently do. The question then was whether we could bring all that information together, and that is where the idea of Citigraf started."

A proof of concept was created in 30 days that connected to Shotspotter in one of the most rapid product development cycles that had been seen by the department. The information that has been gathered in the situation rooms or Strategic Decision Support Centers (SDSCs) can be immediately shared with officers, either on a traditional voice radio or through smartphones. With the SDSCs working in closer cooperation, the department was able to take some of the technology they previously had, such as pod cameras, CLEAR systems and CAD systems, and unify them in a single source. The decision support system consolidates data from a multitude of sensors and provides a dynamic, unified view to all dispatchers and responders so they can take insight-driven decisions during a mission.

Product Suite

A unified platform with clear and intuitive usage is central in anything created by Genetec, and Citigraf is no different. While the ability to customize is useful, what is more important is that any user can navigate to the relevant information at a moment's notice. This focus on ease of use con-

tributed to the development of Citigraf Command for a central operations center, Citigraf Auto for in-vehicle terminals, and Citigraf Mobile to exchange relevant information with field personnel. There is also a highly sophisticated analytics platform – Citigraf Insights – which allows users to detect and understand incident trends and risks by deriving insights from the systems in place. This gives the CPD the ability to measure the effectiveness of campaigns, to enhance the training of front-line employees, optimize strategies and be better prepared.

More Than the Sum of its Parts

In practice, Citigraf functions with a correlation engine that detects relevant information from multiple sources, based on time and location. This means that operators are instantly notified with alerts that require their immediate attention. From the moment of an incident, Citigraf will pool together relevant information such as an emergency CAD call or a license plate read, in order to provide officers with a fuller picture of the situation and improve the response time. With all this information feeding into a greater system of situational awareness, Citigraf helped the CPD use technology to shift from reactive to proactive planning, readiness and response.

However, the most important aspect of Citigraf is its focus on a unified approach to public safety. As a key anxiety for the CPD was the lack of ability for experts to share their knowledge, collaboration is built into the DNA of Citigraf. To be effective, collaboration and connectivity is needed between agencies, cities and the private sector, and this is engendered by the platform. With Citigraf implemented, those experts are able to pro-

vide their insight into crime and gang activity with other districts and create a sophisticated network of knowledge and data gained from technological sources and the expertise of officers who patrol the streets. All of this is indicative of the future of data-driven smart policing to fight crime in real-time, rather than being reactive.

Promising Results

The districts where Citigraf has been placed have seen a significant reduction in violent crime. In fact, many districts that used to drive up violence in Chicago are now responsible for bringing it down. "Since rolling out Genetec Citigraf, response times from dispatch to 'on-scene' arrival time, have been reduced by 39 percent and 24 percent respectively, in our two most at-risk districts," noted Lewin. "Shootings are down 22 percent in these districts compared to 2016, and the technology and process will be expanding to more districts. Citigraf is now deployed in our Strategic Decision Support Centers, located in each corresponding police district facility, and has helped us send a strong message to the community that crime and gun violence get a swift response."

Aside from pure statistical results, there has also been a significant morale boost – both for officers and citizens. Lewin added that "neighborhood residents say that they now feel safer, that they can walk down the street and that they can let their kids play in the park."

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GIT SECURITY AWARD

A lot of light

...with very little Shade: The Shortlist of Finalists for the GIT SECURITY AWARD (GSA) 2020 – and the Requirements of Security Professionals for the Products of the Future

Interesting products and services were submitted again and registered for the next GIT SICHERHEIT AWARD. The GSA jury of experts – users, integrators, examiners, all security professionals – was made up of proven experts and dealt extensively with all systems in the run-up to the jury meetings. And they rediscovered a whole lot of exciting innovations that can be of great help to users, operators and security professionals in the performance of their jobs.



Picture similar

Win the reader prize!

With a little luck, you will soon be the owner of a prestigious digital cam. So please vote in the GIT SECURITY AWARD. Select a favourite from each of the categories A, B, C, D, E and F to take part in the draw for the camera.

GIT
SECURITY
AWARD
2020
FINALISTS

WILEY

First of all: Once again this year, there were top products for evaluation – and the decision for the shortlist was in some cases wafer-thin. We would therefore like to thank the participating companies once again for their work.

Thus, the jury discovered a lot of light during the review – albeit a little shadow: In addition to the numerous strong further developments, the experts formulated concrete requirements for future further developments in one area or another.

The systems that made it into the shortlist speak for themselves. However, we do not want to withhold the constructive criticism of the jury. Take video security, for example. The jury would have liked the suppliers to have put even more development work and inventive talent into high-end analyses. In the case of many video technology products, the experts currently lack an approach for corresponding scenarios. In other words: which processes can be triggered, for example after the detection of an incident? According to the experts, artificial intelligence can produce solutions in the future that trigger real processes.

In the opinion of the GSA jury, it was also clear that intelligent products do indeed exist – but often they simply do not fit into the necessary process chains. Many products are therefore often technologically brilliant, but not always ideal without complex process integrations.

In the field of video management, the linking of alarms with instructions for action has not yet been sufficiently developed. At present, no VMS manufacturer can process simple links according to the pattern „If incident A, then: and/or/not“ – at least this has never been communicated in this way.

In favour of such ideas, however, the experts could dispense with the mass connection of

four-digit cameras – since such projects are rarely carried out as a rule.

The cloud topic was also discussed in detail on the subject of video. The jury was of the opinion that larger projects were not feasible, at least not at present. For smaller projects, however, such as in retail stores, this is definitely a sensible option. The problem in practice also arises from the intrinsic safety of the systems themselves. Not only must the bandwidth be available, but it must also be ensured that no unauthorized person can access ports. Data backup does not always work at the push of a button. The ideas behind the cloud solutions are often technically mature – in practice, however, one often stumbles, at the latest when ten to twelve cameras have to be connected. The combination of cloud and video security is complicated.

The experts have also discovered strong ideas in the field of occupational safety, fire protection and explosion protection. Solutions that make you wonder why nobody had the idea before. But that's what the GIT SECURITY AWARD is for. Especially in this category, the experts expect a lot from the market in the future, thinking about the developments in artificial intelligence.

In these areas, we can only hope that bureaucratic hurdles, outdated standards and excessive data protection concerns will hinder innovations as little as possible. According to the GSA jury, it is important that standards are sometimes also adapted to current developments in the markets, even if established market participants often try to prevent this.

Good ideas, according to the other side, were not always sufficient in the opinion of the experts. Often the know-how for market entry is missing. In addition, the infrastructure must also be right for the successful market launch of innovations.



Jury in Category A: Dr. Markus Winzenick, Birgit Sellmaier, Lisa Schneiderheinze, Anke Grytzka, Regina Berg, Stephanie Nickl



Part of the Jury in Category B: f.l.t.r. Dr. Heiko Baumgartner, Lars Komrowski, Lisa Schneiderheinze, Bernd Sassmannshausen, Steffen Ebert



The Jury for Category C, D und E: f.l.t.r. Thomas Kunz, Manfred Gügel, Dr. Heiko Baumgartner, Peter Krapp, Lisa Schneiderheinze, Dr. Peter Schäfer, Steffen Ebert

Whoever buys products or services expects appropriate support, according to examiners and users in unison. A response to an inquiry from the supplier must be made within 24 hours at the latest.

Nevertheless: According to the jury, there are many valuable food for thought for the industry, especially in the category of occupational safety, explosion protection and fire protection.

The next GIT SECURITY AWARD will once again feature an extensive and interesting selection of products and solutions in all categories. The security wheel is not reinvented every year – however, many products help to ensure that the cogs in the systems mesh even better. And hopefully this will provide even more security.

But now lights out, spot on: On the following pages we present all the products that can be selected in the individual categories. Voting can only be done at www.sicherheit-award.de or www.security-award.com. Each participant has one vote per category, for the own enterprise may not be voted. In order to ensure fair competition, it is also mandatory to provide a valid company address.

Elections will take place from 1 June to 23 August. Finally, the winners of the GIT SECURITY AWARD 2020 will be chosen in the issues at the end of the year.



Safety handles, P-KUBE Krome series

SAFETY HANDLES, P-KUBE KROME SERIES

- Compatible with NG and NS series safety locking switches with RFID technology in accordance to EN ISO 14119.
- Integrated, illuminated control-button for signaling: open, close, reset and other functions.
- Requires no adaptation for use on hinged or sliding doors, left or right; same individual product code.
- Lighting with integrated RGB LEDs, for local signaling of guard status.

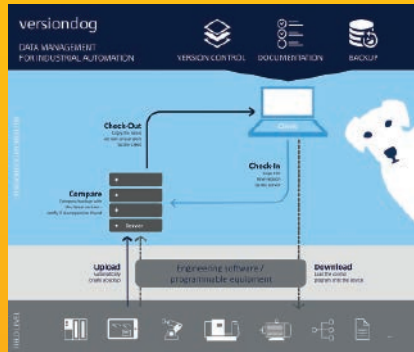
 **pizzato**
PASSION FOR QUALITY

Category A

IT Security and Safety for Automation, Cyber Security

Auvesy: Versiondog Change Management Software

Versiondog is a software used for the purpose of detecting and managing changes in automation devices. In order to safeguard programs and parameters, a copy of every program version of a controller and its settings is documented and saved centrally (who changed what when and why). Access to the system is granted by the user administration. Any changes made outside the change management system are detected automatically; versiondog compares the latest program copy with the program running in the controller. Any differences are reported by email notification. If any unauthorized changes have indeed been made, the latest approved program can be quickly restored from the archive, which contains all program revisions.



Bernstein: SLC Guard Locking Switch

Machine areas that continue running after switching off are often part of automated production processes. If one thinks, for example, of a large flywheel mass or slowly running down saw blades, it is absolutely essential that the machine operator is prevented from accessing them with the help of a safety guard until the dangerous movement has come to a complete standstill. Safety interlocking devices with guard locking such as the new SLC ensure that protective guards, safety doors and other covers stay closed as long as a dangerous condition exists.



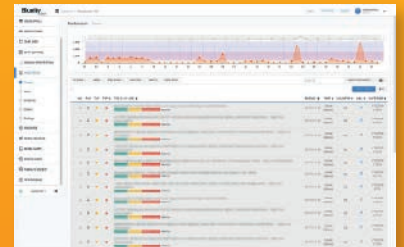
Bihl+Wiedemann: ASI-5/ASI-3 Profisafe Profinet Gateway

The ASI-5/ASI-3 Profisafe via Profinet Gateway (BWU3674) is one of the first ASI-5 products from Bihl+Wiedemann. With 2 ASI-5/ASI-3 Masters, the Gateway is able to communicate as an ASI-5 Master and ASI-3 Master simultaneously in 2 ASI networks. The onboard webservice enables a simple diagnostics and a remote maintenance, the integrated OPC UA server allows a simple incorporation into industry 4.0 applications. In addition to ASI Safety and Safe Link, the safe fieldbus protocol Profisafe via Profinet is also integrated. 3 two-channel safe inputs built-in can be expanded by up to 62 two-channel safe inputs. Also onboard are 6 fast electronic safe outputs and a Chip Card for storing configuration data.



Blueliv: Threat Compass Cyber Threat Intelligence Solution

Blueliv Threat Compass is a pay-as-you-need, modular cyber threat intelligence solution. As a central point of control, it gives organizations a thorough understanding of the cyber threats they face, helps boost their defenses and speeds up response times. The solution uses sophisticated algorithms to automatically collect threat data from open, closed and private sources, correlating and enriching it, before delivering actionable information. Customers can choose from various modules to discover compromised credentials, monitor hacker activity or search the open and dark web for stolen or leaked sensitive information. With an API and flexible plug-ins, the solution integrates seamlessly into existing cybersecurity infrastructures. As a cloud-based tool, it offers more than ten fully-automated, targeted intelligence modules in addition to customizable MRTI feeds.



Dina Elektronik: DN3PD1 Sensorless Speed Monitor

The DN3PD1 is the first speed monitor of the Safeone series that works without a sensor. Depending on the needs, it is possible to monitor a safe speed range (SSR), a safe limited speed (SLS) or a safe maximum speed (SSM) up to performance level e without an additional proximity switch or incremental encoder. Additionally, a safe operating stop (SOS) monitors a specific position that the drive needs to observe. The speed monitor was TÜV-certified last year. Via push button a maximum and/or minimum speed limit can be configured. The diagnosis is made via a two-colored LED display on the front and two monitoring outputs, one indicating the correct speed and the other pointing to the operating status of the device.



Murrelektronik: MVK Fusion Fieldbus Safety Module

The MVK Fusion fieldbus module combines three basic functions: standard digital sensors and actuators, safety digital sensors and actuators and IO-Link. The two standard digital ports can be configured as inputs or outputs – they are customizable for each application. The four safety ports ensure that almost all digital safety requirements are integrated into the installation. The two IO-Link ports offer a wide range of functions: they integrate smart devices into the fieldbus system and they also enable the system to be expanded cost-effectively via IO-Link hubs. MVK Fusion simplifies installation by minimizing the number of modules required. MVK Fusion integrates all safety aspects into one module. Safety sensors signals are transmitted over the three safe input ports, each of which have two channels. Emergency stop buttons, light curtains, two-handed units, safety doors, etc. can be qualified up to Performance Level e.



Pilz: PITmode fusion

Modular Operating Mode Selection and Access Permission System

The modular operating mode selection and access permission system PITmode fusion combines safety and security functions in one system: the functionally safe selection of the operating mode and the control of access permission on machines. PITmode fusion consists of the reader unit PITreader and the Safe Evaluation Unit (SEU). Thanks to its modular design, PITmode fusion can be individually integrated into the design of existing control consoles. On coded RFID transponder keys, which are read in and written in the PITreader, each employee receives the machine release adapted to his individual task and thus secure access to the machine. The group-based authorization management additionally reduces the administrative effort for companies.



Phoenix Contact: ImpulseCheck Assistance System for Surge Protection

ImpulseCheck is the first assistance system for surge protection in the field of mains protection. The system consists of the IPCH-4X-PCL-TCP-24DC-UT measuring system, the sensors and the Impulse Analytics application in Proficloud. The current status of the surge protection can be called up online at any time. In addition to monitoring the surge protective devices, ImpulseCheck also offers a simple and comprehensive analysis of the system EMC. The time-accurate detection of electromagnetic disturbances on the supply lines allows conclusions to be drawn about their cause. Possible disturbance variables are detected before there is a failure in the system. Service and maintenance operations can thus be better planned.

Pizzato: P-Kube Krome Multifunctional Safety Handle for Industrial Automation



P-Kube Krome is a multifunctional safety handle for industrial automation and is mounted together with safety switches on right/left side doors or sliding doors of the guards of machinery or applications. It is fully compatible with the NG or NS series; the combination complies with EN ISO 14119. The handle includes the area for RFID actuators,

an ergonomically positioned illuminable pushbutton, as well as bright RGB LEDs integrated into the handle length. The LEDs can be activated in the colors green, yellow, red, blue, white, purple and light blue. The connection is made via only one cable. Despite the high stability of the handle, attention was paid to a tamper-proof and attractive modern design.

Rohde & Schwarz: Cloud Protector Web Application Firewall as a Service

The R&S Cloud Protector WAF-as-a-Service solution protects web applications from the most common cyberattacks without consuming critical internal resources. The simple configuration and management allows more security at lower lifetime costs. Load balancing, compression, and global coaching improve website performance. The CDN function ensures that data is transmitted in the shortest possible way, reducing latencies and loading times. In addition, the R&S Cloud Protector is hosted in European data centers and guarantees maximum hosting quality. It also supports role delegation, allowing multiple administrators to participate in product configuration and management.



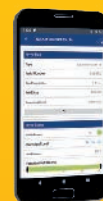
Ross Controls: CC4 CrossCheck Pneumatic Poppet Valve

The CC4 is a redundant 4/3 pneumatic Poppet valve for safe stop/load holding and safety control of pneumatic actuators. The position sensors need to be monitored externally. Depending on the installation, Cat. 4, PL e can be reached in accordance to DIN EN ISO 13849-1. The CC4 can replace an existing solution for safe stop/load holding and safety control of pneumatic actuators (e.g. IFA-Report Functional Safety, 2017, page 185, example 25, Kat. 3, PL e) of a minimum of five valves and two pressure sensors with only one valve and two position sensors, the safety rating is going up from Cat. 3, PL e to Cat 4 PL e. By reducing the components, integration and troubleshooting will be much easier; also leakage points are reduced. The IFA solution only monitors the pneumatic actuating signals, but not the position of the check valves 2V2/2V2 and the position of 1V1.



Schmersal Group: SLC440/COM Safety Light Curtain with BLE

The SLC440/COM with Bluetooth BLE is an Active Optoelectronic Protective Device (AOPD) that makes all status and diagnostic data on the operating status available on smartphones or tablets via a Bluetooth interface. Bluetooth Low Energy (BLE) is a radio system for near-field data transmission with secure transmission technology. This status information and diagnostic data enables processes to be reactivated more quickly, particularly in the event of a system shutdown. All operating data can be stored and is available for further processing. The Bluetooth interface also supports easy start-up using the integrated setup aid. The transmission of data to smartphones or tablets (Android, IOS) is facilitated by an app developed by Schmersal.



SICK: OutdoorScan3 Outdoor Safety Laser Scanner

SICK has introduced a safety laser scanner certified to IEC 62998 for use in outdoor applications. The outdoorScan3 allows automated guided vehicle systems to navigate safely through outdoor industrial environments, for example. It works safely and reliably in all weather, such as sun, rain, snow or fog. The device is ruggedized thanks to outdoor-safe HDDM scanning technology, which means the laser scanner can work without errors when exposed to sunlight with an illumination intensity of up to 40,000 lux. In addition, the intelligent software algorithm of the outdoorScan3 detects rain and snow, easily filtering out these environmental influences. Even in fog with a meteorological visual range of up to 50m, the outdoorScan3 detects all obstacles with total reliability. The device is already used on passenger boarding bridges for instance, as well as to protect and navigate automated guided vehicle systems.



Zander: Minos Ultra Slim Safety Modules

Minos are ultra compact safety modules/safety relays with a width of just 6.2 mm. With the help of these safety logic modules the monitoring of emergency stop buttons, safety switches, interlock switches and light barriers as well as contact reinforcement/filtering of test pulses can be realized. The Minos series consists of two groups: the SL modules are based on wear-free semiconductor technology while the SD series are ultra compact safety relays. All variants are certified by TÜV Rheinland according to EN ISO 13849-1 and EN 62061 up to PL e/ SILCL 3 as well as certified for usage in the process industry according to EN 746-2, IEC 61511-1 and EN 50156-1, up to SIL3 application in furnaces for continuous operation.

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Category B

Fire and Explosion Protection, Industrial Safety

Assa Abloy: ePED

Escape Door Display Terminal

The design-oriented escape door solution ePED is a solution for an optimum operation of an electrically controlled escape door system. The first escape route system with touch display in the terminal replaces 4 modules: key switch, emergency button, illuminated pictogram and time delay display. This reduces the wiring effort and concentrates the functions in one element. The situational display of the function makes it easier to operate in case of emergency. It can be integrated easily into the door technology thanks to the HiO bus. All relevant information such as door status, operation, technical details and maintenance information is accessible via the display.



Bosch: Aviotec

Video-based Fire Detection

Video-based fire detection Aviotec is the first and so far only VdS-certified, innovative solution for reliable early fire detection. It is particularly suitable where standard systems reach their limits, e.g. warehouses, production halls, hangars and extensive building complexes. Unlike common fire detection, flames or smoke are detected directly at the source. Challenges, i.e. delayed smoke or heat development up to the ceiling or inversion situations are hereby mastered. Aviotec is mainly used in buildings with high ceilings as well as dusty and humid environments. Due to rising fire loads and stricter fire protection requirements, Aviotec opens up new ways of a protection concept, which are increasingly rewarded by insurance companies.



Daitem: Beka

Radio Fire Warning System



The wireless fire alarm system Beka from Daitem is a pure radio system for early fire detection. This makes it the perfect fire protection solution for day nurseries, retirement homes, hotels up to 60 beds, small special buildings and much more. The radio transmission path is approved according to DIN EN 54-25 and protected by the patented bi-directional DynaBand process with automatic frequency switching (2 radio frequency bands with 24 channels). The BEKA thus offers maximum personal protection and legal security for planners and operators. It is an approved building product according to EN 54, quickly installed and cost-effective.

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Dahua: TPC-BF2120-T

Mini Hybrid Bullet Camera

The Thermal Network Mini Hybrid Bullet Camera is a combination of optical camera and thermal imaging camera that can even measure temperature and features an integrated fire alarm detector. The compact and affordable model is widely used in industry for fire protection and fire detection. The strength of this device is the combination of visible and thermal technology that makes it a suitable solution to monitor dark, small areas.



GfG: Polysector III G999

Multi-gas Detector

The Polysector III G999 is one of the smallest, portable multi-gas detectors that features an integrated suction pump and a radio module. The G999 features three electrochemical sensors and one infrared sensor. Depending on the model, the fifth sensor slot can be equipped with a variety of sensors, like: a catalytic combustion sensor, a combined catalytic combustion/semiconductor sensor, a PID or a fourth electrochemical sensor. This allows the simultaneous monitoring of a multitude of gas combinations and gas concentrations. The pump enables controlled measurement of confined spaces. For protection of Lone Workers, the radio will send continuous information regarding the Man down alarm status and the gas concentration to an alarm response center. The detector allows monitoring of toxic and flammable gases and vapors, monitoring O₂ concentrations and is suitable for control measures of confined spaces.

Günzburger Steigtechnik: nivello

Ladder Foot



Following an extensive facelift, the new nivello generation boasts modern optics and additional functions. With the 2-axis tilting mechanism of the integrated joint, the nivello ladder foot achieves perfection in terms of full floor contact (4 times greater than a conventional ladder feet of this

vendor). The setting angle indicator shows the secure and correct setting angle of the ladder. The serrated foot plates of the ladder foot can be replaced quickly and easily and are supplied in different sizes and Shore hardness levels, appropriate to the respective floor. Electrically dissipative versions also available for the first time.

**Hikvision: DS-2TD2466T-25X
Explosion-Proof Thermal Network
Bullet Camera**



This camera uses a vanadium oxide un-cooled focal plane sensor to enhance thermal image quality. It adopts 316L stainless steel material to meet the requirements of explosion-proof environments. The camera offers leading image processing technology like Adaptive AGC, DDE, NETD. The powerful behavior analysis algorithm includes line crossing, intrusion, region entrance & exit, a reliable temperature exception alarm function. The advanced fire detection algorithm works with 640*512 resolution in the thermal imaging module. The high sensitivity sensor supports contrast adjustment.



Inotec: FL 2820 TFT

Escape Way Luminaire

The FL 2820 TFT escape route luminaire displays any content via its TFT display. Both picture changes and flashing functions can be realized. Any escape route directions can be displayed according to standards or optically blocked, e.g. depending on a fire (dynamic escape route guidance). Image changes can display alternative escape routes, e.g. for wheelchair users. The luminaire has standard pictograms such as a collection point and can also be used as an information display. Compared to conventional escape route luminaires, the TFT luminaire does not display a pictogram when switched off. An integrated acoustic signal generator alerts the user to the escape route signs, e.g. in the event of a fire.

Lupus Electronics: Lupus Mobile Smoke Detector

Mobile Smoke Detector

Lupus Electronics has developed a simple and efficient world first – a smart mobile smoke detector, connected directly to the narrowband network of Deutsche Telekom and networked with the Lupus Cloud. The smoke detector complies with DIN 14676-1, Method C, works remotely and completely self-sufficient, which means no gateway or router is necessary and still has all the advantages of a smart mobile smoke detector. Thanks to the built-in SIM card, the smoke detector can be used anywhere and the number of interconnected devices is infinitely scalable. With 10 years of battery life, users are safe and carefree for a long time.



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Onecam: Evolution ExD

Fisheye Camera for Explosive Environments

The Onecam Evolution ExD Explosive Environment camera range is the only 360-degree single-sensor camera with an explosion-protected housing. The range is designed to safeguard environments in markets such as oil and gas production and refineries, power and utilities, wastewater treatment, grain handling and storage, and other hazardous materials facilities. The cameras have been designed for use in potentially explosive atmospheres, harsh and hazardous environments. The camera housing is manufactured from Stainless Steel 316L which is ideally suited for use within both offshore and on-shore applications. Its IP66, IP67 and IP68 ratings make it resistant to the harshest environmental conditions. The camera is ATEX approved for use in Gas Zones 1 and 2 and Dust Zones 21 and 22, as well as being IEC and IECEx certified.

Steitz Secura: Black Beast

Light Safety Shoe

The new "Black beast" safety shoe from Steitz Secura is one of the lightest shoes in its class in the world which, at the same time, fulfills all safety requirements and sets new standards in its design and function. The ultra-light and seam-free microfibres with a modern smooth leather appearance ensure extreme dirt repulsion together with an easy care finish. The shoe offers protection class S2 according to EN ISO 20345, an Aluminium protective toecap and ESD protection against electrostatic discharge. The TPU special sole stands out with extreme abrasion resistance and anti-slip properties.

The innovative BOA closure system with lifetime warranty makes shoelaces redundant which can be caught in machines or cause stumbling accidents.



Securiton: SecuriSens ADW 535

Line-type Heat Detector

SecuriSens ADW 535 offers maximum false alarm security when used with ceiling heights of up to nine metres, even in extreme environmental conditions. As a resettable line-type heat detector, it is one of the few that fully comply with the new DIN EN 54-22 standard, which comes into effect on 1st May 2019. It therefore guarantees the highest levels of investment safety and acceptance reliability. The cable-like design with thermally conductive Teflon tubing is innovative. Rolls provide the highest levels of flexibility and efficiency during transport, as well as easy assembly. Software tools assist with sensor tube projecting and system configuration. Two sensor tubes double the surveillance area, even in different environmental conditions.



Weiss Alarm- und Sicherheitstechnik: Smalin CO

Carbon Monoxide Detector Within Night Light

The world's first night- and orientation light named Smalin CO is detecting and signaling carbon monoxide, which is inside the ambient air around endangered persons. The alarm function is supplied by a sealed battery for up to 10 years. The integrated lighting can be supplied via power socket or with interchangeable batteries and can be activated manually, via light sensor or motion detection. Smalin CO stands for Smart Alert Inside and can be connected to smart home systems and the ceiling canopy Smalin. The Device has been developed for using on power sockets or like a self-sufficient solution for connection to the power supply inside regular wall sockets and frames.



GIT SECURITY AWARD nominated our Global Client Programme

Category E Safety and Security Management, Services and Solutions



The Global Client Programme is a project rollout system managed by Nedap. A cost-effective, efficient framework for standardising security across all your buildings, it also gives the flexibility to future-proof your access control.

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Category C

Video Security Systems (VSS)

AG Neovo: QX-Serie / QX Series 4K/UHD Displays for 24/7 Operations



The QX Series of 4K/UHD monitors in was designed by AG Neovo for surveillance, control panel and digital signage applications and is available in the sizes 24 „, 24“, 24 „, 32“, 43 „and 55“. As usual for AG Neovo, this series can be expected to have very long product life cycles. In addition to AG Neovo's unique selling

points such as the NeoV protection and filter glass, the Anti-Burn-In function, metal-case and the rigorous 24/7 design, the innovative multi-screen display will inspire. Up to four 1080p signals can be displayed simultaneously. Real-time monitoring in control rooms, management centers, emergency centers and other public and industrial facilities are visualized in a professional way.

Barox: DMS&SNMP-plugin DMS&SNMP-plugin

Barox is one of the leading switch manufacturers for the Video surveillance market. barox DMS&SNMP-plugin made by barox and milestone, complements and extends the XProtect Video Management Software usability. The plugin gives direct graphical overview of network topology and keeps the network downtime to a minimum, it reduces replacement costs, minimizes setup time and journeys to site. The camera names are visible. The ones in degeneration or frozen are forced to reboot by interrupting the PoE. Critical logins on the network infrastructure can be visualized to show valid or invalid login attempts. In order to fully exploit potential of the safer video system a camera, switch, and VMS should be linked together also on the management level.



Dahua: IPC-HFW8241E-Z5 2MP IR AI Bullet Network Camera

DeepSense series products adopt advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. In addition to the usual intelligent features, these cameras can distinguish Deep-IVS vehicles and people from other objects such as animals and shadows, making them particularly suitable for monitoring large areas with low false alarm rates.

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Axis: P3807-PVE Multisensor Panoramic Cameras

The Axis P3807-PVE IP-Camera uses four sensors to provide a seamless 180° horizontal and 90° vertical overview, with 8,3 MP resolution at full frame rate. Thanks to the Axis T94V01C Dual Camera Mount accessory it is easy to receive a full 360° coverage by using two cameras. Compared with video surveillance solutions using multiple cameras, the Axis P3807-PVE provides a lower total cost of ownership as multi-sensor cameras reduce the number of cameras needed, decreasing the costs associated with installation, cabling and cost for video management software licenses. Additionally, the device-based stitching of the four sensors makes the video stream ideal for analytics. The camera is extremely useful for covering large and wide areas in transportation (train stations), commercial and city surveillance (town centers, parks) sectors.

Bosch: Flexidome IP starlight 8000i Dome Cameras With Wireless Remote Commissioning

All Flexidome IP starlight 8000i cameras have a unique 3-step concept for simple installation, because with wireless configuration there is no need to detach the bubble or manually point the camera to the required field of view. The innovative wireless commissioning can also be done remotely, reducing installation time by up to 75% and enabling installers to work smarter. The cameras capture images in exceptional detail (up to 4K ultra HD with starlight and HDR), feature the latest bitrate management techniques, data security measures and state-of-the-art Intelligent Video Analytics, which delivers incredible accuracy in high security applications and interprets captured data for smart decision-making that goes beyond security.



Eagle Eye Networks: Eagle Eye Cloud VMS Cloud Video Management

Eagle Eye Networks, is #1 in cloud video surveillance worldwide, addressing the needs of businesses, alarm companies, security integrators, and individuals. Eagle Eye's 100% cloud managed solutions provides cloud and on-premise recording, bank level security and encryption, and broad analog and digital camera support – all accessed via the web or mobile applications. Businesses of all sizes and types utilize Eagle Eye solutions for operational optimization and security. All Eagle Eye products benefit from Eagle Eye's developer friendly RESTful API platform and Big Data Video Framework, which allow for indexing, search, retrieval, and analysis of live and archived video. Eagle Eye's open Video API has been widely ad.



Videor: IEB-78M3611MAA 4K Network Camera

The network camera from the eneo SN series delivers video images in 4K Ultra HD quality. Its motorized varifocal lens (3.6-11mm) is equipped with P-Iris control which adjusts the aperture of the outdoor camera (IP66) to the ambient conditions, thus automatically improving the images' contrast, clarity, resolution and depth of field. Dynamic and bandwidth-saving video compression is ensured by the SmartCodec function. Intelligent self-learning video analysis comprises, along with classical video analytics such as motion and direction detection, the functions loitering detection, intrusion and person recognition. The integrated IR LED lighting has a range of about 30m.



Flir: Saros DH-390 Multi-Spectral Dome Camera

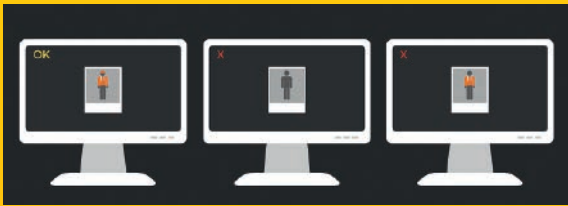
Flir Saros DH-390 Dome Camera is a multi-spectral solution that delivers accurate alerts and verified alarm data. Saros DH-390 features multiple Flir Lepton thermal sensors, a 1080p or 4K camera, onboard human and vehicle classification analytics, IR and visible LED illuminators, two-way audio capabilities, and integration with leading central monitoring platforms and video management systems. Saros DH-390 improves wide area coverage, detection and remote guarding for commercial businesses and security alarm monitoring companies. Optimized for customers with small to mid-range perimeter monitoring needs, Saros DH-390 is an effective solution for utility substations, remote storage lots, construction sites, car dealerships and marinas.



GEUTEBRÜCK

THE SECURE WAY TO MORE
TRANSPARENCY





Geutebrück: AI Work Safety and Zero-Accident AI for Work Safety

Protection against the loss of insurance cover, physical damage to health and non-compliance with statutory operational protective measures. The system recognizes fully worn clothing and only then allows access to an area where the appropriate protection is mandatory. If either part is missing, access is blocked. The visualization ensures compliance with legal and operational protection regulations and significantly increases occupational safety. Each solution is individually tailored to the customer. Video solutions are often used to protect against intruders, vandalism or theft. But there is so much more to the high-performance software of Geutebrück, which intelligently combines data and video images. The Geutebrück AI recognizes all types of objects as well as warning vests and helmets. This is made possible by the individual training of an image-supported neural network.

Hanwha Techwin: Wisenet XNP-6550RH PTZ Camera with 55x Optical Zoom

The Wisenet XNP-6550RH PTZ camera, which is equipped with a 55x optical zoom, a Gyro sensor for accurate stabilization in windy conditions, optical 'Defog', a built-in suite of analytics and built-in IR LEDs to capture high definition images at night at a distance of up to 500 metres, offers an innovative solution for perimeter protection and large open area monitoring applications. The optical Defog feature built into the Wisenet XNP-6550RH is particularly impressive. Unique to Hanwha Techwin, Defog involves the use of an optical low pass filter which is able to accept a higher light range in front of the camera's image sensor in order to reduce the influence of fog.



Hikvision: DS-2CD5A26G0 2MP VF Bullet Network Camera

Part of the Smart IP 3.0 series of cameras, this camera delivers DarkFighter technology giving colourful, bright images even to 0.002 lux. The 2MP camera has a number of smart functions to deliver a more intelligent surveillance system, including: counting instances of line crossing, audio exception, defocused images, face detection, scene change detection and region entrance/exit. New housings, protected up to IP67/IK10 standards, make it even more robust and effective. A longer focal length is ideal for wider coverage and the 120dB/140dB WDR offers clear pictures in environments with strong contrasts.



Mobotix: M16 Thermal Imaging Dual Camera

The weatherproof thermal camera M16 detects and reports objects and people based on the thermal signature - even in absolute darkness and over several hundred meters. The system is based on the modular M16 series and can be supplemented with a high-resolution optical sensor module on request. In addition to the compact design and the flexible mounting options, there are also the intelligent Mobotix video functions. The MxActivitySensor enables almost error-free detection of moving objects. The M16 Thermal can automatically send a message as soon as the temperature in defined measurement windows deviates from the standard range. It is therefore also used for the early detection of life-threatening heat sources.

Seagate: SkyHawk AI 14TB Surveillance-optimized Drive

Seagate SkyHawk AI 14TB is a surveillance-optimized drive designed for AI-ready NVRs for advanced edge security applications. The new 14TB version is the highest capacity of a surveillance-optimized drive for security edge applications in the industry. With a workload rating of 550TB/year, SkyHawk AI is designed for more than three times the workload of standard surveillance drives. As a seventh-generation product, SkyHawk AI 14TB features expanded durability and records footage from up to 64 HD cameras, supports 32 AI streams of metadata, stores over 9,000 hours of HD video, and is tuned for 24/7 mixed workloads. Powered by SkyHawk AI, NVRs can ensure data is preserved and instantly accessible for analytics and real-time decision making.



Category D

Access Control, Intruder Alarm, Perimeter Protection

Anyon: Zipkey

Digital Visitor Management

The digital visitor management Zipkey for high-security buildings runs fully automated with a 'Smart Reception'. It is most commonly applied at data centers (e.g. e-shelter). The system verifies a person by measuring the compliance of ID and live video image (infrared camera). A connection to common access systems on the building side and integrations with popular services on the software side (e.g. Outlook 365, Azure, Slack, Google Calendar) is possible. Zipkey is equipped with the highest security standards of a digital reception in relation to physical components (biometrics and identity documents), software components (machine-learning model that calculates the conformity of the data) and seamless user experience.



Daitem: SH156AX

Wireless Outdoor Motion Detector

The Daitem wireless outdoor motion detector SH156AX for the alarm system D22 effectively secures outdoor areas. If the detector identifies an intruder, a ten second recording of the monitored area starts which can be called up via the Daitem app and/or transmitted to an NSL for alarm verification. At the same time, the potential perpetrator is evicted by the detector and/or external siren through voice alarms or dog barking and bright flashes of light before reaching the house. In the dark, the integrated LED provides orientation. The detector is installed quickly, wirelessly and installed without dirt. With up to 10 years battery operation and 5 years warranty. Thanks to the pet-immune function, the detector will not react to small animals.



Dom: Eniq Guard Digital Door Handle

Eniq Guard is a digital door handle. It offers solutions for many different door situations with its variety of variants. Due to its robustness, it also offers very good protection against vandalism. It is used in areas with much public traffic and where access control with high ease of use and attractive design is required, e.g. in hospitals, banks or hotels. Eniq Guard is a digital integration product that allows the user to choose the programming method (e.g. Offline, Online, Eniq App, Data on Card, Easyflex). It is easy to integrate into the existing Dom access management world „Security Ecosystem“, but also into those of third parties.

Glutz: Eaccess

Electronic Access System

An electronic access system, such as the wireless online system eAccess from Glutz, works with wireless networking and thus combines the advantages of off-line and online. Installation costs and costs are the same as those of an offline system, user comfort and management of an online system. The programming of fittings, cylinders and readers is easily done on your own computer. Corresponding repeaters forward this data in larger buildings. Accordingly, an online gateway can also be used to configure several locations from one location and computer. This way, the responsible administrator can recreate thousands of authorizations on doors with just a few clicks, without having to take a step. The access authorizations are transmitted by radio to the fittings, cylinders and readers and are not located on the access medium.



Genetec: Security Center Synergis Unified Access Control Solution

Security Center Synergis is the IP access control system (ACS) from Genetec and part of Genetec Security Center, that blends IP security systems within a single interface, including video surveillance, access control, automatic license plate recognition, analytics and more. Due to an ever-growing number of supported 3rd party access control devices, Synergis can simply be integrated into existing access control networks. Furthermore, the ACS solution can be linked with other Security Center modules (e.g. video surveillance). The Synergis system can secure large, multi-site facilities or smaller companies and is available on-premise, in the cloud or as a hybrid solution. The research and reporting capabilities of Synergis allow seamless comparison with videos and other data sources, enabling users to clearly distinguish real threats from false positives.

Iloq: Iloq S50
Digital Locking Solution

The Iloq S50 is a secure and fully digital locking solution. It saves resources and simplifies administration. The solution is used in power generation and distribution companies, telecommunication network services, data centers, water treatment plants, real estate services and transportation services. The Iloq S50 is a locking cylinder powered by Near Field Communication (NFC) that draws the required energy from a smartphone.



Innosent: Isys-5021
Radar System with Tracker License

The 24-gigahertz system with tracking function facilitates the use of complex radar technology. It reduces signal processing work and follows the movement of multiple objects simultaneously. Radar anonymously detects the exact position, distance, speed, presence, and direction of movement of objects and persons within the 29,500 square meters detection area. This precision is made possible thanks to 3D Mimo technology and angle resolution. The Isys-5021 filters the radar detections, classifying them and offering the possibility to individually define alarm zones. In combination with security cameras, radar reduces the rate of false alarms significantly and enables need-based control.



Jansen: WK5 Door
Safety Sectional Door

Jansen's safety sectional door is tested successfully according to DIN V ENV 1627-1630:1999-04 WK5. Referred to WK5 standard, a conversant offender attempts to break open the locked door in a resistance time of 15 minutes. The reinforced door leaf with multi-layer structure to achieve protection target WK5 has resistance time of 15 minutes. The experienced offender also uses electric tools, such as drill, a keyhole or sabre saw and an angel grinder with a maximum disc diameter of 125 mm. Jansen claims to be the only manufacturer with an WK5 sectional door in Germany.



Keyprocessor: Juno
IoT Controller



The Juno controller has especially been developed by Keyprocessor for 'passive' technical locations. These are often street cabinets that contain critical infrastructure such as converging fibre-optic cables, but where there is no power and network. Juno combines access control with the monitoring of environment variables and enables operations managers of critical infrastructures in remote locations to check the status of several passive locations. Communication between the controller and the centralized software runs via a wireless connection. Juno is an IoT controller, suitable to communicate over Lora, NB-IoT, or LTE-M network. These are special networks to send and receive small volumes of data.

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Morse Watchmans: Keywatcher Fleet
Key Control System

Built on proven Keywatcher Touch hardware, Keywatcher Fleet is a key control system with software designed specifically for fleet management. A dashboard displays vehicle use, bookings, status, and more. Administrators can generate quick and customizable reports to gain actionable insight on fleet utilization and operations. Morse Watchmans Smartstm lets administrators create policies to enable automatic vehicle allocation. Vehicles can be assigned by lowest mileage, most fuel, priority and more. Drivers can be notified automatically via email or text if a specific vehicle is not available, and unique pin codes or optional card or fingerprint readers provide strong key/vehicle management.



Siemens: Siveillance Perimeter
Multi Alarm System

Siveillance Perimeter supports the qualification of incidents with a map- and graphic-based operating level. Alarms are visualized and evaluated. This way, you can react in a fast and targeted manner – even when several incidents happen simultaneously. Complex scenarios and sector concepts can be displayed via a graphic formula editor. With this, even specific demands of properties are met. The connection and operation of sensors are independent from specific manufacturers. Thanks to definable modes of operation, the system behavior can be adjusted with just a click. These modes of operation define how detected incidents are evaluated and when alarms are triggered. Security levels are determined and stored in the system – so performance always runs smoothly.





Traka: Smart Locker Systems

Locker System

Traka's intelligent locker systems create secure storage solutions for portable equipment, with the reassurance of RFID tagging technology, charging facilities, software updates and faulty item exchange capability. A full audit trail is kept within the system for full visibility at all times. Curfews can be operated, together with custom messages, reason logging and first-in, first-out reporting for charged devices. Traka intelligent lockers systems are designed on a scalable basis. Solutions can be networked with Traka software to present full visibility and reporting capabilities of each transaction. Alternatively, systems can be standalone to program user levels and administration rights into a locker and export data via a USB port.

Vanderbilt: ACT Enterprise

Access Control Software

ACT Enterprise is Vanderbilt's access control software system. ACT Enterprise's smartphone app means real-time monitoring, user management and administration. System users can lock and unlock doors, authorize users and check who's in and who's out remotely. Integration with Vanderbilt's SPC intrusion system provides a single interface security solution with a real-time view of SPC zone status in ACT Enterprise, plus graphical maps, and more. ACT Enterprise's rules mapping allows advanced configurations of triggers. These can be actioned on events such as system input and output change, and card swipe outcomes. ACT Enterprise also integrates with third-party products such as Assa Abloy's Aperio wireless components.



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Category E

Safety and Security Management, Services and Solutions

Advancis: Winguard X4

Open Architecture PSIM Platform

Winguard X4 is an open architecture PSIM platform, linking security, building and communication management systems of different manufacturers and supporting the user in event processing. The platform is scalable from a single workstation system to an internationally cross-linked control centre and can be extended anytime by further servers, clients, function, and interface modules. Currently, over 400 interface drivers are available; in addition, development of new interfaces is possible as well. The user interface is available in more than 20 languages. The recent version Winguard X4 meets the rapidly increasing demands on modern control centres, offering in particular innovations in the field of IT security/cyber security.



Bosch: Infosec

Cyber Security with Information Security



The increase of IT networking and the fusion of IT solutions with building security cause IT threats for security technologies in buildings. To deal with these threats, services become necessary, which currently do not exist. Infosec services complement as a cyber barrier the building security solutions and closes the possible security gap, caused by networked solutions. IT security services, as used in Office/Enterprise IT environments, are not effective when applied in building security contexts. There is a need of experts, capable to combine the worlds of IT and building security as well as domain optimized IT security concepts and solutions, which go beyond what is known. Therefore, Bosch is offering its customized Infosec services. Infosec services from Bosch complement as a cyber barrier the building security solutions and closes the possible security gap, caused by networked solutions.



Deister: Loxxin Contactless PC Access

Access to a computer gives you access to data records, intellectual property and, of course, personal data. Entering complicated passwords is not a solution for permanent use of PCs. An advantage would be to unlock the computer screen without contact by the presence of a transponder. Both problems can be solved by using the same transponder which is also used for access control. This login solution is fast, easy and the encryption of the transponders is much more secure than any password. The Loxxin plug and play system manages the signals from two monitors and the connected input devices as well as the user interface (desktop reader) so that only authorized persons have access to the computer. By splitting this system, the signal cables can be conveniently hidden as usual.

Comnet: CNGE4+2

Intelligent Switch

The ComNet CNGE4+2 is a six-port intelligent switch with light management functionality. It provides four 10/100/1000Base-T(X) copper and two 100/1000Base-FX SFP* ports that deliver exclusive functionality for easy field deployment, including DIP switch-based operation of RSTP for creating redundant network topologies as well as preventing network video flooding of multicast traffic using IGMP snooping. Ports 1 through 4 can optionally supply up to 60 watts of power per port based on the IEEE 802.3at standard. Fully compatible with Comnet Copperline SFP modules for operation over extended distance UTP or Coax cable, the Port Guardian feature provides additional cyber security protection by enabling physical port lockout if an existing cable is disconnected and prevents a potential network incursion using common spoofing techniques.



Dehn: VCSD

Smart Decoupling Device

The decoupling device VCSD 40 IP65 limits long-term, temporary and transient overvoltages. Long-duration AC voltages are limited to a pre-set value without negatively influencing the desired DC potential of the pipeline. Personal protection is safeguarded, even in the event of temporary overvoltages, because the limiting performance of the VCSD is always below the normative limit values. Even when it is switched off, the smart decoupling device limits long-duration overvoltages to 50 volts and therefore to a value which is harmless for human beings. Thus, protecting the pipeline from corrosion and keeping the staff safe are given at all times.



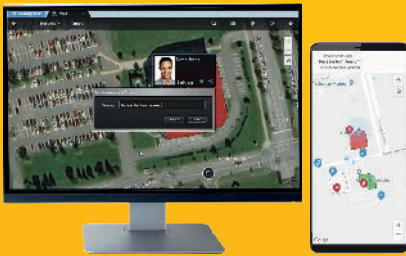
Dräger: Dräger Smart Rescue Building Information System



Dräger Smart Rescue System (DSRS) allows Incident Commanders and their teams to examine fire situations even before the initial assessment. The system provides digital access to building information and local conditions. Even if the fire fighters are called to an operation in a commercial property, the information is available automatically and without manual entry of journey information, fire brigade plans or gas pipeline network maps. This leads to a rapid and successful outcome as well as enhanced personal protection of the emergency services teams. In addition, the DSRS enables networking with other data providers outside the fire brigade, e.g. the municipal building authority.

Genetec: Security Center 5.8 Unified Solution for Security Management

Genetec Security Center is an open-architecture platform that unifies video surveillance, access control, automatic license plate recognition (ALPR), analytics and more. Version 5.8 provides customizable live dashboards, enhanced privacy protection features, a brand-new map-driven mobile app, and new functionalities that help users actively monitor the health of their system and ensure compliance with cybersecurity best practices. With the new Kiwivision Camera Integrity Monitor feature, the system will also automatically detect potential camera position changes, loss of image quality or tampering, and alert administrators immediately. Security Center 5.8 will enable users to create custom dashboards that will display real-time data, such as video feeds, alarms, reports and charts in a way that is meaningful to them and their specific job function (security, operations, IT etc.). Users can set up their dashboards using simple point-and-click tools.



Nelysis: Vanguard Network Cyber Management System



Thanks to its AI algorithms, the Vanguard NCM (Network Cyber Management) system monitors the entire network and detects intrusions, mitigating automatically their effects. Whether it is a critical infrastructure or a small-/medium-sized Business with important assets to protect, Vanguard is the answer to the fast evolving world of IT security. It provides cyber security protection for the entire network at once, including IoT like CCTV cameras, access control/intrusion alarm/fire detection devices. Vanguard reads in real time all low-level network traffic and detects behavior anomalies. Since it is not based on digital signatures, it can detect new threats.

Soloprotect: Soloprotect ID Pro Personal Emergency Signal System

The Soloprotect ID Pro personal emergency signal system is an effective security solution for single workers. The device, camouflaged as a 103-gram name tag, was specially developed for the different security needs of single workers. All features, e.g. two-way audio, video, dead man and locating function, can be used flexibly by the user and by the employer.

Precise location indoors is made possible by beacon technology and dialing into WiFi networks. This enables detailed location information to be determined even in a complex building. The device is always connected to an alarm reception centre. Setup and user training take place online and are very cost-effective. Audio and video functions bundled in a lightweight device. Camouflage as a name tag enables discrete triggering of the alarm.



Heyden-Securit: Magicard 600 Secure ID-card Printer



Magicard 600 card printer provides faster print speed and stringent security. It integrates seamlessly with existing infrastructure to deliver secure processing of ID credentials. A new security feature is digital shredding. Once data has been used for the print job, it is fragmented, rendering it irrevocable. The Magicard 600 has the ability to print a customisable Holokote watermark on every card.

Every single printer has the built-in ability to receive up to 10 different customised anti-fraud Holokotes direct to the printer driver via web tool. It thus offers even greater security against manipulation.

Nedap: Global Client Programme Progressive Project Rollout System

The Global Client Programme is a progressive project rollout system managed by Nedap. A cost-effective, efficient framework for standardising security across all your buildings, it also gives the flexibility to future-proof access control. Large, renowned companies are using The Global Client Programme to easily implement, maintain and update Aeos across multiple international sites. Nedap takes care of project management and local coordination centrally, with the support of local installation and service partners. The key benefits of using the programme rather than handling a global security rollout internally are the ease of achieving both international standardisation, flexibility, scalability, cost efficiencies and faster implementation.



Panasonic: Vehicle Search Vehicle Search Solution

The new Panasonic Vehicle Search software enables law enforcement (police) to find the candidate of suspicious vehicle efficiently even with the incomplete information from witnesses, such as lack of license plate. This massively helps to accelerate the time of investigation. The deep-learning technology realises highly accurate vehicle detection even with the influence of sunlight, shadows, overlap of objects and various vehicle directions. Searches can be filtered down by vehicle colour (10), type (6) and direction (8x2). Afterwards, thumbnail search and assisted playback help to narrow down the potential candidates – and after identification the pursue team can be dispatched to take action.

Category F

Special Category Smart Home



Bird Home Automation: DoorBird D2101KV IP Video Door Station

The Door Bird D2101KV with a keypad and one call button is the IP Video Door Station for single-family homes that provides safe and efficient access control. It combines elegant design with the most innovative IP technology in the field of door communication. The door intercom is made of premium brushed stainless steel and is developed and produced in Germany. The Door Bird D2101KV sends instant alerts on a smartphone or tablet whenever someone rings the doorbell or moves in front of the door. Via the Door Bird App, the resident can see and speak with the visitor and open the door. The IP Video Door Station can be integrated into home and building automation systems. Additionally, an IP phone or a fixed IP indoor station can be connected.



Dahua: VT09341D Apartment Outdoor Station

The video intercom VT09341D by Dahua Technology with 10" touchscreen and night vision camera instantly identifies who is in front of the door, and access can be granted via integrated face recognition, fingerprint, password, RFID card or remotely. According to the manufacturer, this apartment outstation offers a reliable night vision function that shows visitors flawlessly. A 2-megapixel CMOS camera takes care of the pictures.



Essence Security: Wer@home Smart Home Platform For Service Providers

The platform Wer@home Professional Security allows monitoring companies the flexibility to offer their customers a total home monitoring experience with professional installation as well as advanced business models such as professional monitoring on demand. In addition to existing Basic and Premium service levels for end-users, Wer@home now includes a professional service level that incorporates many requirements of professional installation and guarding. This includes definition of new users; Technician, Installers and Guards. Monitoring companies can now give permanent and temporary permissions to their dealer and installer network to install and register new customers.



Ksenia: Domus In-Wall Multi-Function Sensor

Domus is an in-wall multi-function sensor with Keystone opening which permits, for every room, to have at the same time a motion detector, a temperature and humidity sensor and a lux sensor. Useful device in any domotic environment, it allows, in combination with the module aux-L, also from the security company Ksenia, to switch-on and off any light according to the inside luminosity only when someone is inside the room – this saves energy. It's equipped with a digital temperature and humidity sensor (produced by Sensirion) able to allow the management of an air conditioning or a dehumidifier for the desired level of comfort. It becomes very useful for any office environment or for example necessary in museums for the proper conservation of art-masterpieces.

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Lupus Electronics: XT1 Plus Smarthome Alarm System

The smarthome alarm system Lupus XT1 Plus combines professional alarm protection, smarthome functions and modern video surveillance. The system is easy to install, intuitive to use and meets the highest data security requirements thanks to its special rolling-code and 256-bit TLS encryption. Up to 80 alarm and smart home sensors can be networked. Also Hazard detection sensors against smoke, carbon monoxide and water can be connected and warn in time. In addition, a connection to a 24-hour emergency center is possible. The smartphone app informs you immediately about any movement at your home, so your own four walls are smart and protected around-the-clock.



Mobotix: S26 Flex

Built-in Camera with Bell Button Module

The S26 is a hemispheric built-in camera with high-resolution 6-megapixel image sensor and a fisheye lens with horizontal and vertical lens angle of 180°. The S26 covers the entire entrance area. Seamless from wall to wall, from floor to ceiling. After installation, only the lens of the camera is visible. Supplemented with the of the self-adhesive Audiomount with loudspeaker and microphone and the Mobotix bell button module, the S26 can be transformed into a concealed IP video door station. The Bell RFID bell button module also enables keyless access via RFID transponder. Visitors can also leave a video message for the residents directly at the touch of a button.



Provi Alarm: Elock 2

Wireless Locking Cylinder FZA - Wireless Arming Cylinder



In compliance with VdS-inevitability, the Silenya Advanced radio-controlled cylinders allow the alarm system to be controlled, partially armed, armed and disarmed. In contrast to other conventional systems, a radio cylinder with a range of up to 40 meters is enrolled directly to the radio module of the alarm system. Additional modules and cabling are

obsolete. The very easy programming of up to 32 transponders can be realized with the master transponder system. For up to 4500 users and time and calendar function, the PC-programmed version is provided. The disabling of alarm transponders is also possible online. The system links house automation and video verification via scenarios as needed.



Süd-Metall: Ü-Lock BLE

Electronic Key For You And Me

The Ü-Lock BLE system, a combination of the Ü-Lock wireless security lock and the cross-platform Kleverkey app, offers many advantages. The opening impulse results by the mobile device via Bluetooth – in an emergency case it is also possible to open the door with a conventional key at any time. The authorizations can be weighed via the cloud and can be individually distributed. The system is innovative, flexible and works with high safety standards (E-Banking Standard). Thus, the Ü-Lock BLE system can be optimally integrated into smart home solutions.



Wilka: Easy App

App For The Administration Of Cylinders And To Open Doors

Easy App by Wilka is a mobile app for the administration of electronic cylinders to open doors without key, just with the mobile phone. The manufacturer sees the innovation in the combination with the keys, the cylinders and the characteristics of the overall system: manipulation protection through 3-factor authentication with session keys based on AES 128 Sitzungsschlüsseln, die auf der encryption; water resistant electronic cylinder, modular, extendable; works without cloud connection and wlan network communication; mobile phones and ident media can be used as a key; emergency operation possible even if the smartphone is lost.



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A Classic with a Future

Grundig Security Creates Harmony Between Hardware and Software

The roots of Grundig Intermedia – and thereby also of Grundig Security – lie in the traditional German Grundig company. Founded in 1945, it became known worldwide for its radios and TVs. Today, around 1,600 employees work in the various divisions that carry the Grundig brand. GIT SECURITY interviewed the CEO, Ludwig Bergschneider, and found out more about the Grundig Security portfolio.

GIT SECURITY: Mr Bergschneider, firstly let's take a look at the extent of the Grundig Security product portfolio – perhaps starting with the hardware ... ?

Ludwig Bergschneider: The current product range of many manufacturers is very diverse. The demands of many applications in the market, however, are often identical – such a broad product

range is often not necessary. So we at Grundig Security maintain a different philosophy: our aim is to address the whole subject of video security with as few products as possible. Naturally we offer a complete range from one source – from the camera technology, image transmission and recording through to presentation on a monitor. The advantage for the user is that all the components are perfectly attuned to one another, everything fits together.

And you are dedicated to IP technology at the core ...?

Ludwig Bergschneider: Yes. We do however also offer the ability to economically benefit from 'High Definition Video' with the help of TVI products. Even the expansion of existing systems is easily achieved: TVI and IP technologies are both scalable and also exchangeable with each other so that the optimum solution can always be provided.

There are three product ranges for video surveillance: Essential, Pro and Premium. How do they differ, for which environments have they been conceived and which for customers are they generally intended?

Ludwig Bergschneider: The 'Essential' product range includes all the usual functions of a video security solution and is suitable for a wide range of applications. For more elaborate systems, the 'Pro' series provides special functions and benefits, depending on its area of application. The 'Premium' product range was developed for the most demanding security situations. We will appeal to all those customers who are looking for a professional solution to fulfill all their surveillance needs and that will be installed by a professional security specialist.

The hardware, from the camera to the monitor, comes these days from many different manufacturers worldwide – in every level of quality. You have positioned Grundig Security in the market primarily by the software – that



Ludwig Bergschneider,
CEO Abetechs GmbH
(Grundig Security)

is, the video management software. What particular features does it offer?

Ludwig Bergschneider: The Grundig VMS powered by C-Werk is based on an integrated design with a continuous uniform software: from the free 'Viewer' for IP cameras and network recorders through to a comprehensive video management solution for extensive and complex video systems. The platform is logically and systematically designed and completely tailored to the user. C-Werk is also totally scalable and modular and features an open system architecture. This transparent licensing model allows individual adaptations, so the customer only pays for what he really needs.

The subject of video analysis also belongs here. It's been around for many years already – what makes a Grundig Security system special and what can it do?

Ludwig Bergschneider: Grundig Security delivers almost all known video analysis functions, including intrusion, fence and site security, face and license plate recognition, a heat map function, person and vehicle counting and much more. In our solutions, the customer decides for themselves whether the image analysis should take place on a server or directly in the camera (edge analytics). This is highly dependent on the customer's own requirements. Our sales and technical support teams help the installers and system integrators to find the right solution for each user. In particular with the application of video analysis, correct planning is critical to ensure the right result.

Rapid image searching is a characteristic of your systems. How does that work exactly?

Ludwig Bergschneider: The data obtained from the image analysis is stored as metadata in the video management system powered by C-Werk. This metadata includes elements such as license plates and parameters of face recognition, but also differentiation, for example, between people or vehicles, object size, the direction of movement, speed and color. All these parameters are available in the system as search criteria across all cameras, which greatly simplifies the image search. C-Werk finds the appropriate images within seconds, even out of hundreds of video tracks that were recorded over many weeks. And the best thing is that this impressive search function is also available for video recordings from third parties. This enables searches to be made, for example by the police, in video material from different sources. The corresponding software suite is in our portfolio.

This openness belongs to the core of the company culture at Grundig Security . . .

Ludwig Bergschneider: Compatibility with other providers has great importance for Grundig Security. This enables us not only to find the best so-

lution for the end user but also to guarantee investment security – today and in the future. That's why our technical team looks after conformance with international standards – such as ONVIF, for example – as well as integration with third party suppliers.

. . . and that also means that, if necessary, you will be helping with integration of your products into third party systems on-site?

Ludwig Bergschneider: Yes, sometimes system integration is also project-specific. In such cases we're happy to provide support on site if it's required.

Mr Bergschneider, the Grundig brand has a broad and colorful history. What does the brand stand for these days in Germany and worldwide? What does the brand philosophy contain and how is the brand management structured today?

just one reason for the extremely positive growth over the past twelve months. The introduction of the slogan „Grundig – Made For You“ has awoken positive memories and simultaneously transported the message that the needs and wishes of our customers are most important – in technology, in design and also in service.

What new products can we expect from Grundig Security in the near future?

Ludwig Bergschneider: We will continue to work for the perfect harmony between hardware and software. So, for example, we will combine economic, powerful hardware from the „Embedded NVR“ range with the exceptional C-Werk video management system. This enables us to attain superb system stability and an even better scalability. This is just one example of the new items that are planned. In addition, there will be ultra-modern cameras and recorders, the continuous development of our video management systems as well as



The Grundig VMS powered by C-Werk is based on an integrated design with a continuous uniform software: from the free 'Viewer' for IP cameras and network recorders through to a comprehensive video management solution for extensive and complex video systems

Ludwig Bergschneider: The roots of Grundig Intermedia lie in the traditional German Grundig company that was founded in 1945 and became known worldwide for its radios and TVs. It is one of the leading providers worldwide of electronic entertainment products as well as small electric appliances and household machines. The expansion of the product portfolio with 'white' goods in 2013 made the company the only European full-range supplier. There are currently around 100 employees working in Marketing, Sales, Product and Quality Management as well as Logistics and Service. Worldwide, we have around 1,600 employees in the various divisions that use the brand. Grundig is one of the best known brands in Europe. In Germany alone, its degree of brand awareness is an impressive 98 percent. But this is

a comprehensive range of industrial quality monitors. But our main aim is still to deliver brilliant images around the clock, true to our motto: „To change oneself is good; to stay true to oneself in the process is even better.“

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Milestone's Chief Technology Officer
Bjørn Skou Eilertsen

VIDEOMANAGEMENT

MIPS 2019

Milestone Systems Expands its Platform and Community Approach

At MIPS 2019 in Copenhagen Milestone Systems has presented their new global digital platform, Milestone Marketplace, with the aim to increase the availability of community-created software applications, hardware, and services for integrators and installers. We talked to Chief Technology Officer Bjørn Skou Eilertsen about the new platform, Milestone's approach to cloud technology and cybersecurity.

GIT SECURITY: The launch of Milestone Marketplace makes it easier for integrators to build a solution using the Milestone software and an application from one of your partners. Wouldn't it be even more easy to develop such applications yourself and integrate them into your software as a Milestone solution?

Bjørn Skou Eilertsen: Milestone is the Open Platform company. We believe that Milestone together with the community can deliver the right solutions for our customers. If you look at Milestone Marketplace today you will find that there are several facial recognition applications available. It is not a one solution fits all. This provides our customers with the opportunity to get just what is right for them. From an innovation perspective this also means that the innovation muscle is bigger. Time to market is faster since any partner with a great idea can develop and market their solution. Milestone Marketplace makes it easier to find these many innovations easier and understand what is right for each customer. For a limited number of applications like LPR we offer XProtect add-on software to gain extra value and functionality, fully integrated with XProtect VMS and the Milestone Husky series. Unlike some of our competitors, for the vast majority of possible applications we do not walk this path. It might look like an easy way, if you create solutions from one single vendor, but there is so much change in software applications and in the end-user's needs that one single company can't cope with. Combined solutions are the

proven way to get best-of-breed solutions that fulfill the customer's needs, and yes, combined solutions mean more work for the integrator. But it is also a chance to add value.

What is your way to educate the market to embrace the platform approach?

Bjørn Skou Eilertsen: We hear about many customers who don't want to settle for an average solution. So the need and understanding is already there. Marketplace will support the co-creation of solutions, allowing our community to give the market's best match to a variety of customer needs and expanding market reach. It is a win-win as it enables our technology partners to grow their businesses and at the same time helps simplify complex choices for our system integrators and end-customers. They get access to a rich and trustworthy resources pool from which they can build video management solutions.

You mentioned the importance of trust in the security industry. Can you explain us what is the idea of Copenhagen letter initiative?

Bjørn Skou Eilertsen: Copenhagen letter started in October 2018 when more than 150 people, from entrepreneurs to designers to philosophers, have signed it calling for better practices in technology and design. The letter calls for a new renaissance in the future design of technology to put the human, and not just the user, ahead of busi-

ness. Copenhagen letter applied to our industry will strengthen the idea of responsibility and trust in our market. Our CEO Lars Thinggaard and other key people at Milestone including me have contributed to the letter as a signal that we support the idea of responsible user technology. We have included a new "Copenhagen Clause" in our end-user licensing agreements. If a customer is abusing the software or gets in conflict with the Copenhagen clause, we can stop the contract.

Why are you promoting the Copenhagen letter initiative?

Bjørn Skou Eilertsen: Because we think that platform economy and responsibility are closely linked together. When you open-up a platform like ours for very large set of applications, you need to make sure that they meet the criteria for a responsible use of technology. Every application goes through a validation process on the technology side and we will check it against our ethics policy before it is launched.

In the last issue of GIT SECURITY, we had an interview about the SAST initiative to launch an App store for security cameras and their concept was presented at MIPS, too. Are there plans to connect their Appstore with the Milestone Marketplace?

Bjørn Skou Eilertsen: The App store that SAST is developing for the Open Security & Safety Alliance

is limited to devices. With our engagement for OSSA we want to make sure that there is a connection. When a camera application is deployed, we want it to effectively work with our software. It is platform meeting platform if you want. There is a whole ecosystem around the edge and a whole ecosystem around the server or cloud or hybrid.

The use of cloud technology is another key topic here at MIPS. Can you further explain the hybrid approach Milestone is preferring?

Bjørn Skou Eilertsen: We have been investing in preparing for the cloud for many years while at the same time we invested to develop our client-server products further. We are now taking a hybrid approach to the cloud. End user solutions can use the amount of cloud that fits them – to the extent that it fits them. The hybrid strategy involves that we deconstruct our VMS and look at it in a more modular way. We want to run those services who are most applicable to be run at the edge on the cloud and those who are better suited to run at the server run there. Whether it is storage, data processing or management. With the great amount of data that is produced by a VMS system there are great benefits of doing a lot of processing closer to where the generation of data happens. Then use the cloud for more advanced cross sensor and cross site processing and/or use of cloud-based AI networks. We do not think that it is either or, we think a combination is the better solution.

What do you mean with “we deconstruct our VMS”?

Bjørn Skou Eilertsen: A VMS consists of several services like for example the recording service, motion detect service, event service, user management service or rule service. Some of the services are better hosted in the cloud, others better on

the premise. We will advise the customer what services he could or should run from a cloud operated model. So, we are not moving XProtect to the cloud per se but allow the customer to run the elements that are better run in the cloud.

It is the customer's choice which way he wants to go?

Bjørn Skou Eilertsen: Yes, we are offering a road to the cloud. The customer can move 100% to the cloud if he wants, but he has the option to move step by step or even stay with existing inhouse systems. Whatever the choice is, you will use and view video via the same smart client. This is a very pragmatic, less radical way to approach the customer. It is an approach that both resonates with our existing 200.000+ customers and prospective customers. We tell them that there is no need to say, “let’s just move everything to the cloud”. There are important factors like the question of bandwidth that needs to be reflected or the question, if you simply can store footage outside the country. Some of the customers have the perception that cloud is cloud and you can either go for the cloud or stay with server-based systems. The definition of cloud needs to be viewed in many different ways as it is not exactly well-defined. While the future of surveillance may indeed be in the cloud, we need to realize that technology within the security industry lasts for a long time and that it will take some time for the industry, especially in the enterprise environment, to make the transition. It is a journey, not a single step.

What measurements do you undertake to improve cybersecurity?

Bjørn Skou Eilertsen: There are three elements supporting our cybersecurity approach. Milestone has invested heavily in the software development

and in the cybersecurity team and we have optimized the notification processes to build trust with our customers. Additionally, we proactively contract Cybersecurity consultants to perform penetration tests at a very high level, we update our cybersecurity website and we have developed a hardening guide for our customers and partners. It helps that every four months we update the XProtect software including the latest security updates. On the technical side it is an advantage in the system design that we use the recording server as the proxy and have segmented networks by default. As a result, the client network is not connected to the server network. Besides what we do on our side, there is a customer obligation to cybersecurity. It is important how an integrator hardens the system in a customer installation. They need to make sure that they have updated firewalls and secure their network.

Can you give us an overview about Milestone's portfolio and how easy it is to upgrade to a higher version?

Bjørn Skou Eilertsen: We offer XProtect in the versions Essential, Express +, Professional +, Expert and Corporate. They are all on the same code base on the same binary, so moving between them can be done by simply changing the license. All of our Care customers that use the subscription model, can easily move to the next level of functionality and features. For customers that run an old version with a different code base we recommend to re-design the system with a new software version.

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ACCESS

STANDARDS

Onvif Profile A

Bringing New Functionality to Multi-Supplier Access Control

Access control systems and their components have historically been designed and manufactured in a proprietary way. This approach has made achieving interoperability between different manufacturers' products a difficult process. It sometimes has involved developing unique drivers for specific devices or creating workarounds to get readers, panels and other access control peripherals to share information and communicate with a common access control management platform.

A New Interface Driving Open Access Control

The need for interoperability, which is making different types of devices or technologies communicate with one another, is certainly nothing new in our industry. Anixter, for example, have been testing interoperability in their Infrastructure Solutions Lab for many years, connecting devices and clients from different suppliers to our test server site to ensure that integrations and multi-supplier solutions are going to work correctly for our customers in real-world scenarios.

As a result of access control's proprietary nature, customers often have remained confined to deploying single-supplier access control systems and felt forced to buy access control panels from a particular manufacturer in order to maintain their current investments in legacy card readers, door controllers and card technology. But the industry is changing as the development of standards-based applications grows, and end users and system integrators alike are recognizing the value of open standards, such as the interoperability standards created by Onvif.

Onvif Profile A provides an interface for Onvif member developers to use when developing access control software and other security products. Profile A defines the requirements that govern how one Profile A application can communicate and interact with another, facilitating interoperability for multi-vendor projects.

The open device driver used in Profile A conformant access control panels allows end users to integrate control panels and management software from different manufacturers. This gives end users the ability to make choices on specific hardware for their access control systems and, even more importantly, means that if you want to install another supplier's access control management software in the future, you don't have to rip and replace existing access control hardware in order to do so. The common interoperability of Onvif Profile A provides the bridge between the legacy hardware and new software if both are Profile A conformant.

The Tipping Point Is Now

In contrast to the video surveillance market, access control technology has historically been slow to change in large part because of the high upfront costs to acquire and install a system and the longevity of the equipment – commonly between 12 and 20 years. End users and their need for open network-based infrastructures are driving recent changes in this market, as the line between physical security and IT continues to blur. Physical security systems are now often managed by IT departments and IT directors are rightfully demanding open architecture approaches (like IP networks) rather than the proprietary and sometimes duplicative design of traditional security systems.

The drive to an open architecture approach has proliferated across many related industries, and today we see lighting, HVAC and other functions residing on the network as well, offering businesses the option to minimize operating costs and to better control and monitor their facilities. This trend of hosting everything on an IP network clears a path for an Internet of Things, which in many respects is already here.

The network can already transfer pieces of data from one system or device and correlate it with other data in analytics software programs, ultimately providing usable, actionable information to end users, aggregated from such several systems as video, audio, intrusion, voice and other systems. Multiple network-based systems make things like intelligent building automation a reality, delivering costs savings, keeping people and assets safer and using less energy.

As one of the major platforms within a smart building environment, access control systems play a large role in this IoT scenario. When connected to other, seemingly disparate building systems using a common interface, this deeper interoperability enables increased productivity to the overall system. As a contributor to an intelligent building ecosystem, access control systems also serve as a repository of large amounts of data - tracking people's movements for real-time facility population data or facility usage based

on the day's meeting room booking schedule. The more data that is available within a system means the more quickly that adjustments can be made, further ensuring the security and efficiency of the building.

When enabled with artificial intelligence, access control and other building systems can begin to recognize patterns, anticipate events and behaviors and make proactive changes to the building environment, enabling its occupants to work more efficiently. Whether the temperature and lighting for a room is adjusted based on recognized patterns - a 10am meeting every Thursday on the fifth floor, or doors are unlocked in anticipation of a recurring event, AI allows for systems to be smarter, more effective and provide additional costs savings by further reducing the administrative burden of the system.

With so much data being fed into these management platforms, from AI technology or other more traditional sensors, a stumbling block to true interoperability still remains. To effectively be able to harvest actionable information out of the received data, it has to be readable in a common format. Data readable in only one proprietary ecosystem will jeopardize the idea of interchangeable information, and further reinforce the silos that exist between the largest providers. Profile A could offer a solution for this in the future, by providing users with that common interface, and allow the

market to continue to grow through interoperability and innovation.

Profile A: A High Return on Investment

Profile A essentially levels the playing field between large and small manufacturers, eliminating the need for proprietary protocols between suppliers for communications between different components of a system. End users can, for example, choose specialized, high-end access controllers and panels from one manufacturer to use with Profile A conformant access control software that is perhaps lesser known, but that provides what the end user needs when it comes to management and reporting.

And as manufacturers continue to adopt Profile A into their products, access control componentry that conforms to Profile A will mean that a business doesn't have to rip and replace the Profile A conformant access control devices in the facilities that they've acquired. Instead, they can deploy and use their own preferred management software in the newly acquired facilities using existing hardware.

A Long-Term Commitment to Access Control Interoperability

With the development and release of Profile A, Onvif is making a long-term commitment to open access control systems in particular. The develop-

ment of Profile A took two years and the work of many Onvif member company representatives from all over the world to develop a standard that can take the physical security market into the next decade.

One thing that Onvif and Anixter have in common is their view that standards are created to be tools that let customers make educated decisions, with the freedom to choose the hardware and software of their choice, regardless of manufacturer. When end users can just think "It works," and move on with their day, that's when people know Onvif has done a good job in developing a practical solution.



Bob Dolan, Onvif Technical Services Committee and Director of Technology, Anixter

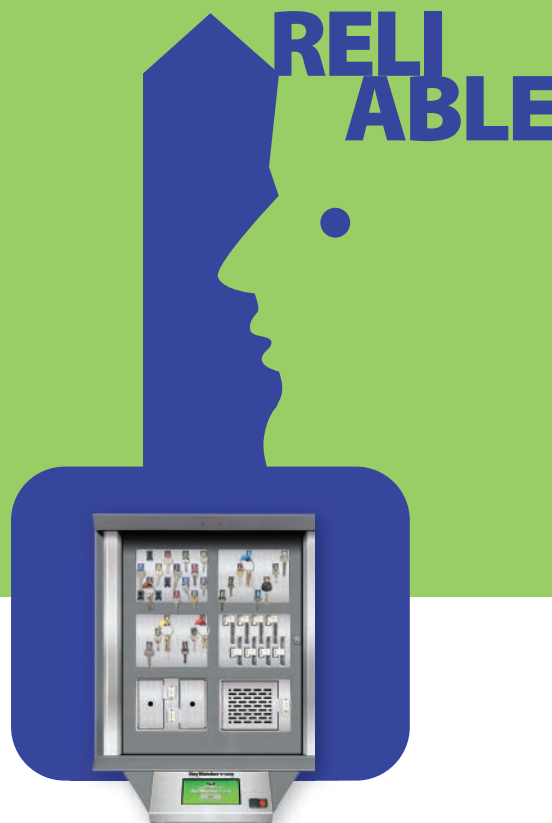
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PASSIVE FIRE PROTECTION

"Cost Shouldn't Come First"

A commentary by Glyn Coates, Director at Zeroignition, about the Lack of Understanding Fire Protection in the Construction Industry

Following the disastrous fire at Grenfell, it was reported that the intumescent cavity closers, installed as part of the external elevation, were the wrong way around. This meant that the under-fire barrier could not react to the fire in the right way and close the cavity to prevent it from moving upwards throughout the building. This mistake throws into question how it actually happened, if the fire protection or cladding company were qualified and doing their jobs competently, and whose responsibility was it to check the sub-contractors' work?

There appears to be a glaring problem in the industry. There's clearly insufficient policing of what is being installed and how it's being done. In times gone by there would be a Clerk of the Works, however it seems that this role has almost died out because of a cost cutting exercise – so does the responsibility now lie with the project or site manager, sub-contractor or main contractor? The truth is, nobody knows the answer – and that's the problem. Liability dodging, cost cutting and pure lack of organisation in the chain of command between specification, installation and maintenance is for me, the biggest challenge and the biggest problem our industry faces and is currently ignoring – which is lethal.

Do Standards Fall Short?

In particular, there appears to be a lack of understanding in relation to fire control and what is required to reach even the most minimum standards. Whether the necessary performance is 60 minutes, 120 minutes or even higher, there is very little understanding of the differences between reaction to, and resistance to, fire and the nuances between the two. For example, specifying a Euroclass A.1 doesn't mean that it will achieve a 60-minute performance. There needs to be more education around reaction and resistance and how both need to be considered during the early stages of design.

If we take insulation as an example, there has been a big focus on CO₂ reduction and thermal

properties by both the construction industry and by government, and cuts were largely achieved by adding combustible insulation to the building envelope, particularly in high rise structures, without proper focus on the safety implications in terms of fire. This is where fire protection considerations lack the priority they deserve. It should be thought of as something as essential as the foundation of the building or the envelope, and built into initial designs and within products, not just an afterthought near the end of the process to make sure a box is ticked. It's putting people's lives at stake and it's hard to understand why it's not taken as seriously as it should be.

Interrogating the Industry

When it comes down to it, it could be argued that there are two parts of the build program that require immediate attention:

- The overall design, especially ensuring that the priced project with the 'equal and approved' reference meets the performance requirement on all levels, and in particular against fire.
- The necessity to supervise and police the construction program to ensure that nothing less than the correct products are being installed in the correct way by the correct and qualified contractors and that they are then maintained correctly.

It seems like a mammoth task, particularly to an industry that is notoriously slow and resistant to change, but as the situation needs improvement, we need to consider how we can remove as much

risk as possible with a few simple alterations. Don't forget, breaking it up into smaller tasks all adds up. So, greater levels of control are needed across:

- Materials – ensuring they're part of an umbrella accreditation and testing system to ensure consistency and compliance from all manufacturers.
- Cost shouldn't come first – this goes for material substitutions and contractors. This mindset does and will continue to risk people's lives.
- Control over quality – there needs to be a clear chain of authority on builds to ensure that there is a central role overseeing the products, installation and construction methods across all trades on-site to ensure everything is correct.
- Traceability – All components in fabricated systems need to be marked and logged to ensure if the worst does happen, the sub-contractors and manufacturers involved are held accountable and can work to resolve the problem, so it doesn't happen again.
- Flexibility in design – Architects and clients need to have a greater understanding over the limitations of certain materials and their costs so there is less chance of specifying something that will need to be altered at a later date.

Controlling Off-site Activity

We can begin to achieve these smaller changes from the very beginning of the construction process, and I believe we can take some important learnings and lessons from off-site manufacturers. They use monitored and checked components to



Glyn Coates, Director, Zeroignition

make sure their products meet the performance specification, and by introducing quality checks and tests during component assembly in the factory environment. It is fairly simple to develop and implement industry-standard certifications - particularly with everything managed in one place and dealing with fewer suppliers. And of course, when taken to site for installation, the workforce is skilled, qualified and have up-to-date knowledge of the products, but most importantly, they should consider the building as a 'system' not just individual components. I believe this is the key. We need to work towards developing a complete solution using off-site construction or at the very least, those using traditional methods of construction need to learn from new methods, rather than push against it. Staying stuck in our ways is costing people their lives – is anyone prepared to say that's OK just because that is the way it has always been done? I'm not.

Successful Construction

Whether the method of construction is simple panelized or through-wall construction detail, inner or outer face, the most important thing is that the products used are certified and have been fully tested for thermal, acoustic, fire, airtightness and environmental certifications. Properly certified through a third party not self-certified. Marking your own homework was always easier!

Looking to the Past to Inform the Future

Back in 1996, an article was published by The Royal Academy of Engineering titled 'Where is the Henry Ford of Future Housing Systems?' This is a question some of us in the industry are still asking today. Although the market has been slow to change, partially because that's the nature of the industry, off-site manufacture seems to be heading in the right direction. Expanding this thinking into all construction market sectors could happen, but measures need to be taken to ensure that quality control over components being manufactured develops ahead of the game, so that clients and specifiers can have peace of mind over what they're buying. Let's face it, we've got a lot of catching up to do!

When it comes to construction, the lowest cost shouldn't be the first consideration. Yes, cost-effectiveness is important, it's a business after all, but it shouldn't take precedence over building safety, quality or performance. Research and due diligence are key to helping the industry improve its standards and refusing to work with sub-quality contractors and manufacturers is one simple step on the journey to change.

I have worked in the construction industry for 40 years and it's easy to see where things have, and more importantly, have not moved forwards. But it's only when I think about this as a family man that it really starts to hit home. Would I let my kids

drive a car that hadn't been properly safety tested, and regularly serviced? No. Would I want to fly in a plane where cost-down was the primary focus when it was built? Absolutely not - no-one would. So, why do we accept anything less than properly constructed, safe buildings to live and work in?

We know what needs to be done, it's now about making the change happen. Drawing inspiration from more modern methods of construction and similar industries, particularly where manufacturing and installation is present, means that we can translate the same high standards and way of working so that we move away from being driven by cost, to be driven by quality and safety.

Doing nothing because making change is hard has never been, and will never be, a good enough excuse. No builder goes to work to try and build a second-rate building – so let's go back to basics and change the foundations, literally, of how we work.

Sources: <https://interestingengineering.com/25-extremely-embarrassing-architectural-failures>

CONTACT

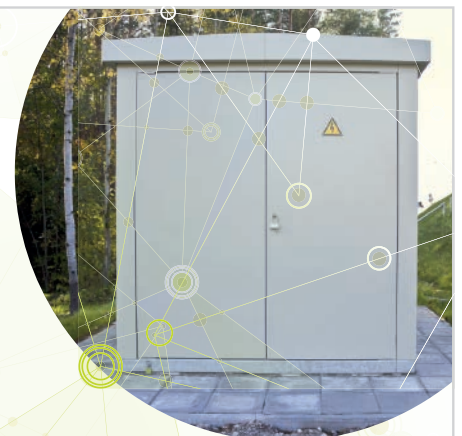
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VIDEO FIRE DETECTION

Printer Prints, Paper Burns

A Networked Solution with Video-based Fire Detection for the Mohn Media Printing Company

Decades of experience, innovative ideas, a strong commitment to quality, and a full range of first-class offset printing services: Mohn Media Mohndruck GmbH, a company of the Bertelsmann Printing Group, is one of Europe's leading providers of printing and media services. At its facility in Gütersloh, Germany, some 2,000 employees are involved in professionally creating and executing tailored solutions for customers across a variety of industries.



Video-based fire detection for the Mohn Media Printing Company

To avoid endangering staff and production, the company also has extremely high standards where the plant's safety and security are concerned. Bosch has supported the print specialists with advanced technology and services through multiple system generations. "Again and again, we've been impressed by the innovative solutions that Bosch comes up with for us," says Jörg Naumann, who heads the company's fire brigade. "Bertelsmann has been partnering with Bosch for over 35 years, and for good reason."

Early Detection

The latest new project involved implementing a networked solution to improve fire safety in the eight-meter-high waste paper warehouses. On average, around 300 tons of paper are stored there at any given time. Problems in waste paper removal would directly impact production. To enable prompt responses to any fire events in these sensitive areas, the Bosch experts planned and implemented a cutting-edge solution. Aviotec, the

first video-based fire detection system to be certified by VdS Schadenverhütung GmbH (the VdS is an independent, renowned institution for enterprise safety and security, and harmonized body for international safety standards) plays a key role in it. Intelligent algorithms directly integrated in the cameras reliably detect the first signs of any smoke or flame. Particularly in challenging large-volume buildings, this technology detects fires at their source much more reliably than conventional detectors, which are not triggered until smoke reaches them.

Efficiently Managed Safety

The data generated by the new fire protection solution come together in the Bosch Video Management System. If Aviotec identifies a potentially dangerous situation in any of the waste paper warehouses, it immediately alerts the continuously staffed emergency service desk of the plant fire brigade. The situation can then be checked on a video screen and appropriate steps will be initi-

ated. The use of this innovative technology permits very early detection of any fires. This prevents major damage and resulting production downtimes, thus saving the company a great deal of time and money.

To additionally enhance security and efficiency, all of the integrated on-site systems for fire protection and video security are managed by the Building Integration System from Bosch. As required, the security systems can be centrally or locally monitored and controlled by staff as appropriate. Not only Mohn Media benefits from this, but also all of the other companies of the Bertelsmann Printing Group operating at the same site.

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www.boschbuildingtechnologies.com

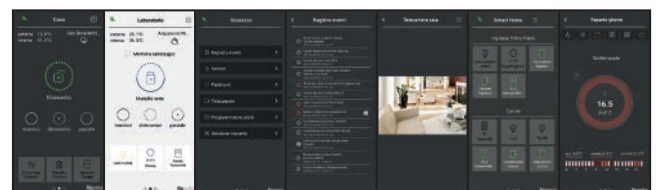
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Certifications: EN 50131-GRADE 3

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).
Certifications: EN 50131-GRADE 3

lares 4.0 - 140 wls:
up to 140 IN +140 OUT - 20 partitions - on board 868 MHz

bi-directional Ethernet and wireless interface (DPMS - Dynamic
Power Management System technology) and 2 KS-BUS.
Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).
Certifications: EN 50131-GRADE 3

lares 4.0 - 644+ wls (and even more for specific project):
644 IN + 644 OUT - 30 partitions - on board 868 MHz
bi-directional Ethernet and wireless interface (DPMS - Dynamic Power
Management System technology) and 2 KS-BUS. Dedicated Installer App
(Ksenia Pro) and User App (lares 4.0).
Certifications: EN 50131-GRADE 3

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BUS siren (imago or radius), 1 domus to manage the functions of the
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Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).
Certifications: EN 50131-GRADE 2



SECURITY AND SAFETY FOR PORTS

Protect the Port

Thermal Cameras Improve Safety and Security Along the Waterfront in Aalborg

Hikvision and Milestone Systems are supporting a project to find an innovative solution for improving safety and security along the waterfront in Aalborg, Denmark. They teamed up with Aalborg Municipality, the North Jutland Emergency Services, Aalborg University's Faculty of Engineering and Science, and security company Actas A/S to find a solution that utilizes Hikvision thermal cameras.

Strong on Logistics and Cooperation

"Denmark's best planned port area" is located outside the city on wide-open areas - with room for long-term development. Nearly 100 companies have already established themselves in the attractive area, of which about half of the areas are situated near the quays. The Port of Aalborg is an active and rational part of each port client's supply chain; a hub for all types of freight and all kinds for transport by ship, truck and rail. Together with Aalborg Portland A/S, the Port of Aalborg is the fifth largest port system in terms of total cargo volume in Denmark.

Improved Safety

The system developed in close cooperation of the Aalborg Municipality, the North Jutland Emergency Services, Aalborg University's Faculty of Engineering and Science, and security company Actas works with a combination of thermal cameras (which will be set up between Limfjordsbroen and Honnørkajen during the trial period) and one controllable camera for use in active searches. Aalborg

University is mapping risk areas and developing a groundbreaking program that can "recognise" accidents and raise an alarm.

When someone exhibits dangerous behaviour along the waterfront, either on land or in the water, the emergency services will be notified. A camera on Limfjordsbroen will be activated at the same time to record what is happening. This can also be used as an aid if a rescue operation is required. This means that the emergency services will be notified immediately if there is an accident, and live footage from the site can be streamed to their control center using the existing video platform. The control centre can then call out a lifeboat if required.

Think Outside the Box

Hans Henrik Henriksen, Councilor for the Planning and Landscape Department, says: "Aalborg is very proud of its waterfront. The city has built up around the water, but this also means we need to ensure our water safety measures are the best they can be. We are working continuously to improve safety along the waterfront, and we have

taken a number of initiatives towards this such as adding more lighting, more rescue stations, new ladders, and so on. Despite this, we have found that accidents are still happening, which is why I look forward to the opportunity to think outside the box during this trial and to be innovative in this area in collaboration with Aalborg University and the North Jutland Emergency Services."

"If things go well, it's likely the project will also be adopted and used in other port cities in Denmark and perhaps also abroad," concludes Hans Henrik Henriksen, in March. Now, with the test phase a success, Aalborg is almost ready to go live with the system. The municipality is also planning an expansion with more cameras, due to the high levels of confidence they have in the system's success.

CONTACT

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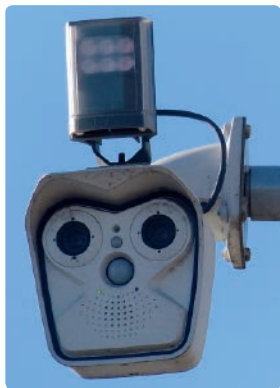
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Practical Tips about Lighting for Intelligent Transport Systems

Advanced information and communication technologies used in transportation and traffic management systems capture license plates, for which the distance to the target, the horizontal field of view and the camera mounting position must be carefully considered. White light, infra-red or another frequency light may be required for some plates from around the world. The spread of the high power, high quality illumination should be matched with the field of view of the camera and lens. Mount the lighting as close to the camera as possible and make sure to mount the camera/light combination at an incidence angle of less than 35 degrees to capture retro-reflective plates. Infra-red lighting is generally used for ANPR applications, particularly if no color information is required from the capture of the plate. Some systems will require white light to obtain additional information from the plate but then care must be taken to avoid blinding the driver. In infra-red systems, fit the lens with an 850nm narrow band-pass filter. www.rayteccctv.com



Simplified Dome Camera Installation

The IP network Wisenet X Plus dome cameras from Hanwha Techwin have been designed to significantly reduce the time needed for installation, set-up and maintenance adjustments. The company's dome cameras are equipped with a number of practical features that help installers, including magnets that lock sensor modules into the dome housing and preconfiguration of IP network settings without removing the camera from the box. The network cable can be inserted through the waterproof gland using an RJ45 plastic push-through device, negating the need to re-make a cable end. A motorised PTRZ gimbal enables installers to remotely pan, tilt, rotate and zoom the lens position to set the camera's field of view. There are fifteen Wisenet X Plus models, including internal, external and flush mounted options. All have the Wisenet 5 DSP chipset and 2MP models also benefit from a wide dynamic range (WDR) which performs at up to 150dB to accurately produce images from very bright and very dark areas. www.hanwha-security.eu



Curved LCD Video Wall

Barco has worked together with display mount specialist Vogel's to create a curved mounting structure for the Barco Unisee. This makes it possible to set up and service the bezel-less LCD video wall in an arc. The curved structure opens up opportunities for application in lobbies, control rooms, experience centers, broadcast studios and simulation and training centers. Curved video walls create a sense of immersion. The new mount allows a concave curved setup from 0–10 degrees, in steps of 1 degree. The risk of screen damage during installation is significantly reduced and servicing has become fast and risk-free, thanks to the innovative sliding of the panels. This solution is available in landscape and portrait modes, as a floor-to-wall mounting structure. www.barco.com



Emergency Voice Communication System

Kentec Electronics has launched the Safe-Point Emergency Voice Communication (EVC) System, designed to provide additional safety to people with reduced mobility in emergency situations. Commonly known as a disabled refuge system, the product enables emergency services or colleagues to communicate with people awaiting safe evacuation in designated refuge areas. This is particularly important during fire events where the use of elevators is prohibited. The system consists of a control panel located in a reception or building manager's office, and hands-free communication points in designated areas on each floor of a building. It is a stand-alone product that can be integrated with any fire panel or building management system (BMS). It combines all potential functionality in one system: it is photo luminescent so highly visible, even in the dark; it includes braille and tactile identification; it features an induction loop for the hard of hearing; it can easily be expanded to include a disabled toilet alarm, and it is vandal resistant. www.kentec.co.uk



New Compact Knob Cylinder Variant

The Compact Knob Cylinder from U&Z provides many different mounting options thanks to the space-saving knob. The product is now also available as an outdoor variant for use in exterior areas. Even extreme weather conditions from -25°C to +65°C do not affect the reliable operation of the new product variant in outdoor areas, for example, at entrance doors and warehouses. In addition, the product meets all the requirements of the IP66 protection class and is dust and waterproof. The knob cylinder can be fitted to almost any exterior door. The new variant, just like the basis product, provides high security because all the security-related components, such as the motor, are housed in a protected area within the cylinder. The minimalist stainless steel design of the outdoor compact knob cylinder adapts discreetly to the architectural conditions. www.uundz.de



LPR Technology

Grundig license plate capture cameras are specialized CCTV cameras that have built-in software to help identify and record license plates on stationary or moving vehicles. The GD-CI camera supports a white list and an output relay and can be used as a standalone solution to open gates or barriers. Used together with a Grundig NVR and VMS, the camera is ideally integrated to manage car entrances and exits. The two megapixel bullet IP camera fitted with either 2.8-12mm (GD-CI-AT2647T) or 8-32mm (GD-CI-BT2647T) motorized zoom lenses is available. The cameras can be used near a barrier or for long-distance recognition of car number plates. Intelligent traffic modes built into the cameras compensate for speed, weather and headlight issues, which would otherwise make it challenging to capture usable video from which license plates can be identified. www.grundig-security.com





COVER STORY

Complete Access Control Has to Go Further

GIT SECURITY Talked to Marc Handels About Salto's Vision for Access Control



When it comes to access control, Salto Systems is always looking to push boundaries and expand the scope of what is possible. For two decades, the Spanish company has been developing rock-solid security products that deliver real benefits to both customers and end users. GIT SECURITY talked with Marc Handels, Chief Technology & Innovation Officer at Salto Systems, about their vision and how their newest product – the Salto Neo Cylinder – fits into this vision.

◀ **Cloud or on-premise, mobile or traditional credentials, offline or wireless online, Salto offers the freedom of choice in access control**

GIT SECURITY: Marc, Salto is about to launch a brand-new product, the Salto Neo Cylinder. Why is it so special?

Marc Handels: When we launched the Salto XS4 2.0 range, it was not just to update a design. It was so much more than that. We always have an eye on the market, and we also seek input from our customers and partners. This feedback helps guide us in the development of new products and platforms. The XS4 2.0 platform was designed from the ground up with the purpose of increasing our commitment to our customers and partners by offering flagship products that are future proof and can bring the features and functions that make life easier. Our goal is to give end users the capability to efficiently and conveniently control access no matter the scenario. The Neo Cylinder is a natural extension of what we've been working on over the last several years with the incredible products we've released like the XS4 Mini, the XS4 One and the Ælement Fusion, just to name a few. The world moves fast and it's essential for products to grow with that change, adapting to new functionalities as they emerge. The Salto Neo Cylinder is a good example of this as it was a re-design – from scratch – due to the physical limitations of the existing electronic cylinder. We had to really think about how to implement and enable all of the functionalities we wanted to add.

What kind of functionalities are you talking about?

Marc Handels: One of the most important functionalities was incorporating the use of the cloud into access control. By developing an access control platform that operates in the cloud, we can offer partners and customers a solution that fits their needs whether they prefer a cloud or on-premise solution. So, with the Salto Neo Cylinder, it's a win-win situation. The Neo Cylinder is built with the absolute latest in technology and therefore we can offer a product that can work with Salto ProAccess Space management software for those customers that prefer to have IT management under their control and it can also work with the Salto KS Keys as a Service cloud-based management platform. This is simple to accomplish: the Neo Cylinder is either initialized through a Portable Programming Device (PPD) for the on-premise solution or through Salto KS.

That is an impressive improvement in usability, what else does this product bring to the table?

Marc Handels: Well the other feature that is absolutely essential in access control right now is mobile access and this is not new to us, of course,



The Salto Neo Cylinder enables to adopt new functionalities

as our previous range was already NFC compatible. But with the Neo Cylinder, we knew that there was an issue with just being NFC compatible since the iPhone comprises a huge part of the mobile phone market and they use BLE, or Bluetooth. That's why the Neo Cylinder had to be BLE-enabled in order to convert 100 percent of the mobile market. The Salto Neo Cylinder is one of the few, if not the only, electronic cylinder to be BLE enabled which makes it compatible with both iOS and Android. So now it truly does not matter if you use Salto KS in a coworking space or are a student in a university that uses JustIN mobile, you will be able to use your mobile to get access into the door you need.

What about the reliability of an electronic cylinder?

Marc Handels: Reliability and quality are features that have always distinguished Salto and of course the Neo Cylinder lives up to our reputation. The mechanics have been redesigned in order to meet the highest standards like SKG, if in combination with the correct mortise lock, and VDS and incorporate new antidrilling protections. We've also improved the performance for outdoor use and this cylinder, in combination with its design and new mechanics, is IP66 rated meaning its built to withstand even the harshest environments. But what's really impressive is that one set of batteries can last for up to four years!

Is the Neo Cylinder available in all markets?

Marc Handels: Salto is a global company – we're present in more than 90 countries and we have 26 offices worldwide – and so the solutions we develop are adapted to local needs. The Salto Neo Cylinder will be available in a variety of local standards like European, ANSI, UK, Swiss, Australian, RIM, Deadbolts, etc. It will also be available for different applications like padlocks, swing handles for server racks, cam locks, and the like. We know the importance of developing products that fit any situation and that offer the level of functionality that is required.

What other technologies does the Neo Cylinder feature?

Marc Handels: Last year at Security Essen show we launched a new functionality, SVN-Flex. I think

it has revolutionized access control and reconfirmed the potential of our original data-on-card technology. SVN-Flex was made possible through our brand-new wireless technology, Salto BLUEnet, and with this system we removed the small limitation that was restricting the real potential of data-on-card technology. This brought credential updating exactly where it belonged: To the door! So, with SVN Flex, any wireless, battery-operated door, not just entrance doors or specific doors, can update a user card or credential. This small detail that any wireless battery-operated door can be an updating point, is now even more expansive with the Salto Neo Cylinder. Any door where we remove a mechanical cylinder and we install a Salto Neo Cylinder can be upgraded to an SVN-Flex updating point, making it possible and more affordable to increase the number of updating points. This empowers an access control system and boosts performance. If you really think about it, it's even more powerful than a fully-online system because you can control even the offline stand-alone locks through the genuine Salto virtual technology. This really is a game changer.

Cloud or on-premise, mobile or ID-based, offline or online? It looks like you are offering a complete freedom of choice.

Marc Handels: Yes, that is part of our vision. As mentioned before, we are committed to our partners, customers and end users. We've been working hard developing technology so that we can offer products that are fully equipped, no matter the need: cloud or on-premise based access control; mobile or traditional ID-based credentials; offline standalone or wireless online. You can decide what you need without having to replace your hardware. There really are no limitations anymore, it's nothing but options.

Ifsec 2019, Stand IF2810

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STid CEO Vincent Dupart

In 1996, STid invented the concept of instinctive security, redefining how organizations can protect their people, property and data with intuitive RFID-based access control readers on the market. With its innovative solutions, France's leading provider of contactless technologies is seeing double-digit growth. We ask STid's CEO, Vincent Dupart, about the keys to this success, true openness in the access control market and the future of mobile access.

ACCESS CONTROL

True Open System

GIT SECURITY Discussed Access Control Technology with STid's CEO Vincent Dupart

GIT SECURITY: What are the main advantages your technologies offer compared to traditional systems?

Vincent Dupart: Since 1996, our mission has been to help Security Directors overcome all their managerial and usage barriers that previously limited their efficiency. As a result, a user-focused design has been the basis for all our developments. From our point of view, adoption by end users is key, and we invented the smoothest, simplest and most instinctive identification modes available worldwide. Another big advantage our system offers is that we use open technologies. We base the development of our solutions on standardized open technology and public encryption algorithms. This gives organizations the freedom to choose what suits them best. We rely on the quality of our products and their excellent security to win client loyalty rather than any proprietary technology. An additional plus is, we offer certified security, so it is not just a question of trust. STid is the first manufacturer in the market to be certified by a governmental organization. We are well-known for our

products' high level of security which are OSDP and SSCP compliant. We combine all this with an unmatched service, we are very close to our clients and offer OEM solutions, too. With these tools, our customers are able to develop specific solutions that fit their needs.

You mentioned that you rely on open systems while a lot of manufacturers use the word "open" to describe their products. How does your company differentiate itself from the competition?

Vincent Dupart: Corporate security depends upon comprehensive, autonomous management of access control parameters. Unlike other manufacturers, we believe you should have the means of swiftly adapting to any security update. True autonomy is that you keep control of your security. Our exclusive SECard software and biometric kits for example empower clients to make many changes on their own. We also deliver ergonomic management tools, services, trainings and consulting to help our clients choose and adopt the most appro-

priate solution smoothly and efficiently using non-proprietary technologies based on international standards. Open systems means also that you are flexible regarding the storage of the data. It could be on your premises or on STid's secure servers. All solutions are based on interoperable technologies and RFID standards and are compatible with all access control systems on the market, so our customers are flexible to adopt to new technologies.

What are your growth plans for the future in the EMEA region?

Vincent Dupart: We have developed an ambitious investment plan to become European leader in five years' time and have allocated the financial resources for this plan. Part of the plan are new recruitments in the key regions Germany, Scandinavia and the UK, while we open a subsidiary in the US, STid North America. We will strengthen the existing regional teams and build-up new ones. The plan is to have around 30% more staff on the ground by the beginning of 2020. This includes staff for technical support, in the R&D teams and

production. In the new STid headquarters we will double the number of employees.

STid is always innovating, what's new in your offering?

Vincent Dupart: We have designed a new secure and instinctive solution and introduce Spectre, the first born of a new generation of long-range ultra-high-frequency readers enabling a fast vehicle identification process at the gate with the highest security levels. This secure and smart solution has been designed in close collaboration with our customers to ensure that the reader meets the myriad of security requirements of a fast, automatic vehicle identification. Based on the EPC1 Gen 2 standard and UHF passive technologies, Spectre rewrites traditional rules of security, making it more instinctive. The long-range reader offers unmatched reading distances up to 13m and reliability for smooth vehicle access. Its outstanding performances makes Spectre the fastest reader on the AVI market. With STid Mobile ID, we are offering mobile access control with smartphones in an open ecosystem. With the new WEB APIs, we offer a software that is needed to drive the STid Mobile ID Cloud service through a third-party software. Instead of using the Customer WEB Care to create and send virtual cards, you can call APIs from any software at the sole condition to have requested the authorization token. The WEB API can be used to manage virtual cards for a given site. The data storage is on STid secure GDPR compliant servers or on-premises depending on customer needs. A customized version is available, too via an SDK of the application. It is an iOS/Android library under a dedicated software license for third-party developers willing to bring STid virtual cards management in their own Mobile App.



Let's focus on STid Mobile ID. What are the biggest challenges for an organization that wants to migrate to a mobile access control solution?

Vincent Dupart: Technology is not the limiting factor any more, the people involved have to change their behavior. Access control is still perceived as a constraint and a barrier not as an instrument to make your business life better. Another aspect is the change and migration management especially where you have a mixed smartphone and badges park. Trainings and customized support can help here. To convince all stake holders in an migration process that the whole system is secure is critical for the success. It is not just a question of trust, as a project leader, you have to provide proof that the storage of data on a connected media is fully secure.

BloT is a strong growth market. What role can mobile access technology play in the Building Internet of Things?

Vincent Dupart: Indeed, the BloT market grows significantly, rising from \$34.8Bn at the end of 2017 to \$84.2Bn by 2022, representing a CAGR

of 19.4%. Mobile Access technology such as STid Mobile ID could be a corner stone in the ecosystem. Every access control system owns crucial data such as real-time occupancy level of the site or a given area, can track assets (people or object), can determine if a collaborator is still at his office in case a fire alarm is triggered, and leverage on a Mobile Access Control solution to spread messages. So now, imagine if we connect access control systems to lighting systems, electrical management, HVAC, alarm, computers, digital signage etc. – the list goes on. You will find big opportunities in reducing utility spending and equipment costs, and there's also a productivity or behavioral benefit while optimizing operational expenses by being greener.

Looking into the future, where do you see opportunities in the access control market over the next few years?

Vincent Dupart: The increase of mobile credentials will be a major factor. IHS Markit forecasts that 44 million mobile credentials will be downloaded by 2021, up from just 1 million in 2016. I am convinced that IP access control in general and especially cloud-based access control will dominate the market and Access Control as a Service will have a big impact. Regarding the recognition technology, I think that facial recognition will be more popular than ever and will become a crucial part of access control.

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ACCESS CONTROL

No Wires Attached!

Wireless Access Control Doesn't Tie You Down

As the Wireless Access Control Report 2018 recently highlighted, more and more organizations are switching to wireless access control to secure their premises. Wireless devices offer greater flexibility without sacrificing security. But choosing to cut the cables is only the first of many welcome choices when the switch to wireless is made.

Locks with integrated RFID readers are easy to retrofit to existing doors and buildings, giving security managers much more control over a site. And because these are battery powered and use almost no electricity when idle, wireless access control helps companies reduce energy bills.

Choice of Credential

Wireless access control – which includes the Aperio, Smartair and Cliq wireless locking systems from Assa Abloy – gives you the widest possible choice of credentials. You don't even need to abandon physical keys. In the manufacturer's Cliq key-based access control system, programmable keys with batteries power the cylinder or padlock via an encrypted interface. Both electromechanical and

fully electronic cylinders are available for doors, cabinets, lifts, alarm boxes, machines and entrance gates. Users reprogram or revalidate their key access rights at wall devices, either with portable programming devices or by making a Bluetooth connection between the key and the Cliq Connect mobile phone app.

Card-based access control leaves your credential options wide open. Aperio wireless locking devices for upgrading access control systems and Smartair access control systems are both compatible with all leading RFID proximity protocols, including Mifare, DES Fire and iClass. Users can pick from standard smart-cards, tags, bracelets and other convenient formats, tailored to their site. Wireless escutcheons come with optional PIN key-

pads for doors where multi-factor authentication is needed for upgraded security.

In addition, a Smart Air system offers mobile-ready access. Administrators can open electronic door locks remotely. At the user end, the Openow app stores validated virtual keys on a smartphone, so there's no need for anyone to visit a Smartair officer to physically collect or update a credential. Virtual keys can be sent or revoked over the air for maximum, time-saving flexibility. Users just tap a Smartair lock to open up via Bluetooth.

No Size or Type Limits

Whatever size the premises, and no matter what work is done there, a wireless access control system fits. In the healthcare sector, a card-based access system can manage huge hospitals and

also small doctors' surgeries where, for example, optional anti-bacterial coatings preserve hygienic environments. Assa Abloy wireless access control protects both single-unit shops as well as whole shopping malls; care homes and corporate headquarters. From Helen Oy power stations in Helsinki to ULab, Alicante's newest co-working space, wireless has shown to be the right solution.

A key-based access system such as Cliq, for example, caters to complex, multi-location businesses with thousands of locks securing hundreds of employees, and also contractors who need access round the clock. Many utilities operate remote sites that are miles from reliable mains electricity and often at the mercy of extreme weather. None of these challenges stops Cliq cylinders and padlocks meeting the demands of trusted security critical infrastructure.

But the Cliq system is not just for the giants; one user-friendly extension of the technology, Cliq Go, enables small business owners to manage an access system from a mobile app. A few taps on the screen is all it takes to cancel, issue or change the door permissions for an employee's Cliq key.

System Management Options

Wireless access control does not restrict your system management workflows. The backbone of every Assa Abloy wireless access system is intuitive software that makes it easy for facility managers to control, identify and update exactly who can open every door. For all the company's wireless access ecosystems, a user-friendly software interface is accessible from almost any standard PC, tablet or smartphone. It gives facility managers an instant overview of their site's security status from anywhere.

With Aperio wireless locks, new doors are managed from the same interface as an existing access control system. System devices integrate online or offline (or both) with access systems from over 100 different manufacturers. System administrators see only one, familiar admin interface. Smartair offers a menu of management options from standalone operation through offline and Update-on-Card control to real-time control via Smartair wireless online functionality. With wireless, the choice is there.

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The oldest pharmaceutical/chemical company in the world has its headquarters in Darmstadt, Germany. This site of Merck has now been partially modernized with an electronic locking system from Uhlmann & Zacher to meet the needs of a modern, dynamic working environment. The aspect of access control has gained in administrative flexibility and convenience in daily use through the new electronic locking system. The electronic and the mechanical systems are running in parallel and complement each other.

LOCKING SYSTEM

Dynamic Work

An Electronic Locking System with Flexible Access Organization for the headquarters of Merck in Darmstadt

Merck develops products and services that find application in almost every aspect of life: from medication and foodstuffs through environmental analysis to new materials for architecture and technology. The scientific and technology company was founded in 1668 by Friedrich Jacob Merck in Darmstadt – today, it counts among the most important pharmaceutical and chemical companies worldwide. Around 51,000 employees work for the organization, 12,800 of those in Germany. The headquarters of Merck, the holding company for the operative business of the Merck Group, is in Darmstadt.

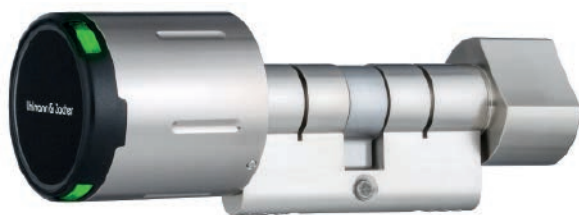
Partial Modernization with an Electronic Locking System

In 2018, Merck celebrated its 350-year company anniversary. The partial modernization of the headquarters with an electronic locking system fits well with this event. Apart from the mechanical locks, there was also an electronic system with around 1,000 cylinders. This has now been replaced and significantly expanded. Around 6,000 electronic components have been installed over the past few years.

An electronic locking system is a sensible alternative to a mechanical one for the company because some departments relocate within the available buildings at regular intervals. Flexible adaptation of the access system is enabled by the Keyvi administrative software from Uhlmann & Zacher and thereby a quick reaction to changes. The individual authorizations can be changed simply with a few clicks of the mouse. In total, the locking system at the headquarters now incorporates around 35,000 cylinders. It is in fact a combination of mechanical and electronic systems – this provides optimized access control for the site.

Consultancy and Project Support

It was important for those responsible for implementing the changes that there should be



◀ The electronic knob cylinder was used in various configurations at Merck headquarters



The electronic cabinet lock enables lockers and cabinets to be incorporated into the locking system ▶

competent advice and support throughout the project. The local company Georg Jungblut Sicherheitstechnik was in attendance at Merck from the planning stage right through the implementation of the mammoth task. Merck's system administrators were given corresponding training on the use of the new locking system.

Out of approximately 6,000 already installed electronic locking units about 4,000 were electronic knobs, double knobs and half-cylinders. The latter are used in the padlock version. In addition, electronic door handles and door fittings are in use, which provide a great deal of flexibility because of the wide range of types. The electronic locking system, however, is not limited just to doors and gates; furniture can also be integrated into the system. Lockers and cabinets have also been secured by electronic cabinet locks – and they can be included in the Keyvi administration with a few clicks of the mouse.

Authorization Linked to the Staff Number

A specialty of this particular installation lies in the software. In the software from Uhlmann & Zacher, normally the serial number of the transponder is obtained by the readers, to which the relevant access authorization is stored in the Keyvi software. This is how access is granted, or not as the case may be. Uhlmann & Zacher has made some customer-specific changes though in the software for Merck.

In this case, the authorization is not linked to the serial number of the transponders but instead to the staff number stored on the ID card. So every staff ID card that also works as a transponder contains the respective staff number, with which the corresponding authorization group can be determined by a reader in the Keyvi software. This is effectively an interface to staff management with many advantages for efficient workflow. The staff ID cards are cards with the Mifare Desfire transponder technology. They conform with the latest security standards and are therefore the preferred transponder technology of Uhlmann & Zacher.

As all the electronic staff ID cards had first to be changed from Mifare Classic to Mifare Desfire, Uhlmann & Zacher also developed a special solution for this. A tool was compiled that buffered the data so that it could be reliably transferred from the old cards to the new ones. The staff ID cards are also used in third-party systems for time and attendance recording and canteen accounting.

Flexible Management of Authorizations

Of the already ca. 26,000 issued transponders, around 15,000 also have an electronic authorization and can therefore also be used by staff for time and attendance control and canteen accounting. Meanwhile, the number of electronic locking units at Merck has been growing at an enormous rate – in 2018 about 2,000 to 3,000 locking cylinders were fitted in just the one year and incorporated into the system.



The broad electronic door handle/fitting range adapts well to various types of door

Every transponder card is assigned to a group that contains individual authorizations. The system administration is carried out using the Keyvi software by employees of the company itself after undergoing training by Georg Jungblut Sicherheitstechnik. This administration software enables changes to be easily made to authorizations. And of course, lost or missing transponders can be rapidly barred and new authorization quickly and simply transferred to another transponder.

External service companies and staff who are visiting the site for maybe just a day are also issued with an ID card and will be registered in the software. They are added to a group in the system and granted the corresponding access authorization. This allows them to move around the corresponding parts of the site flexibly and simply.

Extra Groups

Another peculiarity of this installation is that, apart from the standard 296 usable groups that are almost all in use, a large number of the optional additional 5,000 extra groups are also being used. Currently this amounts to some 3,500 extra groups. So basically every necessary authorization group can be formed that is required. Last year, a total of 220,000 electronic authorizations were issued, both individual and group authorizations. It is also possible to react quickly to lost transponders. As soon as one is reported, the corresponding 'key' can be barred in the software. Then the authorizations are written onto a new transponder and this is issued. Misuse of the lost transponder can thereby be easily prevented.

In total, 167 buildings were partially upgraded from a mechanical locking system to an electronic one, or the old electronic system replaced. The electronic locking system from Uhlmann & Zacher makes the administration of locks at Merck particularly flexible. Prompt and rapid adaptation of authorization is available at any time. This enables the whole locking system to be adapted to current daily requirements in accordance with the security plan.

Those responsible for the system are very flexible – in spite of which, the highest security

standards will be maintained. The regular relocation of accommodation doesn't present a problem, whereby the most differing needs of the various departments can be met. The existing mechanical locking system is very well supported by the electronic locking units.

User-friendly for Employees and Visitors

A further intention of the upgrade was to make the electronic locking system as user-friendly as possible for both external visitors and staff. So the electronic locking cylinders, door handles and door catches, programming terminals and cabinet locks could be used intuitively and the introduction phase from mechanical to electronic could run smoothly. The whole locking system is set up to meet the needs of a modern working environment through the partial upgrade and the demand-oriented interaction of mechanics and electronics.

The high level of flexibility in the application of an electronic locking system convinced the staff responsible for security at Merck. The company uses all the capabilities that the Keyvi administration software has to offer the user. The standard available software from Uhlmann & Zacher was tailored to the individual needs of the company, and further adaptations of the software are possible.

The electronic system will be progressively expanded. After completion of the upgrade at the headquarters in Darmstadt as well as at two further locations, further projects of this type at company locations around the world are possible. The successful cooperation with Uhlmann & Zacher and Georg Jungblut Sicherheitstechnik will be continued to this end.

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ACCESS CONTROL

A CEO's Nightmare

Beating the Cyber Threat

The security industry and encryption standards must evolve quicker than the use of advancing technology by organised crime, terrorists and chancers to make sure we are all protected in this cyber age, says Richard Huison, Regional Manager of Gallagher Security (Europe). The word 'cyber' is on the lips of many companies at the moment – and normally in fearful tones. No surprise when theft of data and disruption to business continuity is so threatening and can lead to irrecoverable damage to corporate reputations and massive drops in share value.

In April, the BBC reported research from the insurer Hiscox that 55 percent of large firms across seven of the largest economies had been subject to a cyber attack in 2019 compared with just 40 percent the year before. Another report suggests 81 percent of large firms are subject to at least one attack a year.

Cyber Threat is Nothing New

Yet most businesses admit they are poorly prepared and almost 75 percent of firms are ranked as 'novices' in terms of cyber readiness. The Wannacry ransomware attack two years ago affected 230,000 computers in over 150 countries in just one day that were exposed through a vulnerable SMB port. Organisations from Fedex to the Université de Montréal, from Boeing to Honda, Russian Railways to Telefonica to the UK's National Health Service were hit. The threat is nothing new. Back in 2013, a directive from the NIS, focused on protecting critical infrastructure across Europe, said: "Network and information systems and the essential services they support play a vital role in society, from ensuring the supply of electricity and water, to the provision of healthcare and passenger and freight transport. Their reliability and security are essential to everyday activities."

With the average cost of a security breach to a large organisation ranging between £600,000

and £1.15m, it's no wonder the cyber risk frightens CEOs so much.

Remote Access for Hackers

The trouble is, hackers can exploit the disparate systems on their networks, often through remote access granted by the organisations to third parties precisely to manage the risk. Similarly, some manufacturers of security equipment who are expected to provide the solution, may increasingly be part of the problem! Helping organisations to counter the cyber threat is Gallagher Security's number one priority as they want to help as a long-term CPNI-approved supplier to the Home Office and critical national infrastructure clients such as the National Grid.

One Million Pound Per Minute

They should know what works as the cost of a power outage on the Grid is £1m per minute so they have to be absolutely sure of their cyber resilience and that everything they plug on to their network is secure. That's a real challenge in an era where kettles and other household appliances are becoming increasingly wifi-connected, so a hacker switching them all on at the same time could bring down the Grid. Look at the hullabaloo over the leak about the UK Government's discussions into allowing Chinese giant Huawei involvement in 5G.

So, people should insist on compliance with the various global Government standards – such as the UK's Cyber Assurance Products, the US's Fips and Australia's Type 1A – where genuine cyber resilience will be found.

This way, as the threat landscape evolves, so will the encryption standards to resist concerted cyber-attacks. It is essential also that everybody keeps application software and their Windows environment bang up-to-date for the same reason. In the UK, for instance, only a handful of the 40 or so manufacturers will offer this level of standards compliance and cyber resilience.

SMEs, where typically there is a lower level of cyber knowledge, expertise and resources, still require confidence in the resilience of what goes on their network and that it will still be cyber-safe in the future so that their security investment is future-proofed.

It is important that personal data fields reside on a secure and encrypted sequel database with a single random system-generated key code to 'unlock' the database, owned by the company and not any security consultants. Minimising the data that are kept and constantly removing inactive cardholders ensures a 'Single Source of Truth', integrated with the organisation's HR system.

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◀ With the large cost of a security breach, it's no wonder the cyber risk frightens CEOs so much. Helping organisations to counter the cyber threat is Gallagher Security's number one priority.



Richard Huison is regional manager of Gallagher Security (Europe)



Gallagher have developed their mobile credentials system in conjunction with Nok Nok Labs which is what's used by the banks and systems like Applepay for payments

Heavy Fines for Non-Compliant Organisations

GDPR has been in force for a year now to protect and empower all EU citizens' data privacy and to reshape the way organisations across the region approach data privacy. Non-compliant organisations face heavy fines, which could be as high as 4 percent of annual turnover.

To illustrate the 'teeth' of this, one should consider that when the Talktalk cyber breach occurred in October 2015, affecting nearly 157,000 customers, they were fined a record £400,000 by the Information Commissioner's Office, just shy of the potential maximum £500,000 fine. Under GDPR, if that attack happened again, they would face a potential penalty of up to £71m.

So, another important step is to pre-register all visitors on the site, to ensure they view and acknowledge the GDPR policy and give their consent for the data that is collected, then to automatically erase the visitor data once they have left. Keeping tight control of user privileges on the corporate network and enforcing a robust password policy are also key.

By ensuring all readers are fully monitored, with electronics potted and protected and full end-to-end encryption with 256-bit Elliptic-Curve Cryptography (ECC), it is possible to protect against any tampering of access control card read-

ers. If unique keys are shared between controller and reader, then a substitute reader will not be recognised and simply will not function. The most secure card technology to use is Mifare Desfire EV2. However, a better and more cyber-secure way may be to scrap card technology all together and go for mobile credentials.

Using the Smart Phone

The smart phone with Bluetooth wireless technology is revolutionising access control and negating the need to issue cards. Not many people leave home without their smart phone these days. The same mobile device can be used across multiple sites, with fast remote secure and simple provisioning of each device.

Gallagher have developed their mobile credentials system in conjunction with Nok Nok Labs, the same people behind Fast ID Online or the Fido alliance, which is what's used by the banks and systems like Applepay for payments, so it's very secure. They are ensuring their access products support either PIN, fingerprint or iris biometric authentication, when this is offered by users' phones. They're even working with Fitbit to put it into their and other smart watches.

Fido is an open standard alliance – with Microsoft, Google, Paypal, Samsung, Intel, Visa and the UK Cabinet Office among others as members

– recognised globally as the future of logical and physical access authentication. Access credentials are issued to mobile phones using the Fido Universal Authentication Framework (UAF) protocol, which allows each user to select their preferred method of secondary authentication.

Unlike other methods, the Fido UAF protocol does not require the authenticating system to store user biometric or PIN information, so this information never leaves a user's personal device, either during enrolment or ongoing authentication. So, secure two-step enrolment and scheduled two-factor authentication with the user's finger or face ensure absolute security with no personally identifiable information left in the cloud.

Gallagher reinvest 15 to 20 percent of revenue into research and development, which represents almost one tenth of their workforce globally, and they are committed to two major software releases a year.

CONTACT

Gallagher Security

<https://security.gallagher.com>

PERIMETER PROTECTION

Hey, You There!

Network Cameras with Integrated Intruder Deterrents

Hikvision has introduced a new Acusense network camera series to its Easy IP 4.0 security solutions. Featuring a built-in strobe light and an audio alarm, the new cameras can immediately deter intruders from entering a prohibited site, further enhancing the safety of premises and property.

Importantly, the network cameras build on the same intrusion detection functionality found within the company's existing security solutions. When a potential threat is detected by the camera, it uses its intelligent false alarm reduc-

tion technology to disregard irrelevant movements such as rain, leaves and animals. Instead, the camera focuses on human or vehicle movement, dramatically reducing the number of false alarms for faster, more accurate intrusion detection.

Strobe Lighting and Alarm

Once a potential intruder has been accurately detected, the camera triggers its built-in strobe light and audio alarm. This is designed to warn the intruder off before they attempt to breach the perimeter. The volume of the audio alarm and the brightness of the strobe light can be adjusted to suit the environment. The Acusense network camera range can deliver this powerful intrusion detection and prevention at all times of the day or night. Powered by the manufacturer's Darkfighter technology, all cameras in the range deliver clear surveillance images, even in ultra-low light conditions.



Choice of Four

The cameras are available in bullet and turret styles, and in 2MP or 4MP resolution, making a total of four different camera options available. Frank Zhang, General Manager of International Product Marketing Department at Hikvision says, „By adding the strobe light and the alarm to our Acusense technology, we can now give our customers the chance to prevent incidents from happening in the first place, for even better security. We're delighted to be able to help our customers protect their property in ever more valuable ways.“

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marketing.eu@hikvision.com

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The user's access token or card is programmed via Bluetooth from a mobile phone that has securely received access authorization via an encrypted channel



ACCESS CONTROL

Teaming Up

SAG Offers a Mobile Access Solution in Cooperation with Sony

Expanding its portfolio of mobile access solutions, SAG is teaming up with Sony Mobile, who are delivering advanced IoT solutions to many different industries. In addition to SAG's Mobile Check-In via a temporary guest code or Bluetooth, the company now also offers solutions in cooperation with Sony Mobile for the use of mobile access authorization, designed for the programming of digital keys for doors and cabinets via smartphones.

With Safe-O-Tronic access mobile programming, access authorization can be received wirelessly via mobile devices and transferred to numerous data carriers. No power supply or programming equipment is required. This makes the logistics of locking systems that are distributed over several buildings very convenient, ideal for branch operations, care services or other businesses and institutions with multiple field offices.

The product can provide temporary access to buildings for service and maintenance personnel, controlled access to medical cabinets in healthcare facilities or special regulations for access to laboratories or other functional rooms. It can ensure security in the provisioning of digital keys at any time and location.

Pilot Projects in Swedish Care Facilities

In Sweden, where care facilities are mostly under municipal responsibility, several pilot projects for secure access to medicine cabinets have already been successfully implemented with this conveni-

ent mobile access solution. Administrators for the care facility grant access authorization wirelessly via Criotive Access to the staff responsible for dispensing medicines in the connected care facilities. Employees log in via their smartphone and transfer the authorization to cards. This means that the medicine cabinets equipped with SAG's wireless LS furniture locking system can be opened on-site by authorized staff members in a controlled manner. It is just as easy to organize access to the medicinal depots of the municipality. This may be especially beneficial during vacation time when many temporary workers are employed.

Smooth Management of Access Rights

"The Criotive Access solution provides an encrypted channel between the service provider and connected devices, such as phones and wearables, and has a user-friendly dashboard for efficient provisioning management over the air", explains Jessica Håkansson, Head of Criotive Access at Sony Mobile. "It's quick and easy to set up and manage both locks and users. They don't need to pick up

or update their keys at a central office – it's all handled securely over the air."

The combination of the two products offers a wide range of industry solutions for access – easily retrofitted into existing installations. The application is available for Android as well as iOS devices. „With our solution, we can provide temporary access authorization for cabinets, rooms or entire areas. The ability to program authorization on the move complements our product portfolio perfectly" says Marcel van den Haak, Export Manager at SAG. There are a variety of applications available for mobile organization in the healthcare, hospitality, fitness, retail and administration sectors.

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ACCESS MANAGEMENT

137 Years and Still Going Strong

A Company Portrait: Morse Watchmans Key Management Since 1882

There is a famous saying, “Keep your Secrets Under Lock and Key.” Morse Watchmans is proud of their history and their story of how they have successfully helped businesses around the world to keep their valuables under lock and key, and safe and secure. They have been solving key management problems and providing security solutions since 1882.

Morse Watchmans was established to help business owners and managers worldwide rest well knowing that their businesses were safe and secure. They innovated the tape clock to get rid of bulky, often unreadable metal dials. They gave our tape clocks solid-state quartz works to assure the greatest accuracy and most reliable performance.

As the digital revolution set in, they embraced new ways to gather, store, and share security information electronically. In 1987, they introduced the first data recorder that automated complete guard tour reports and track stations with a storage capacity of 2,000 readings.

In 1991, they produced the Boss 2000 guard tour system that is still working in more than 20,000 facilities throughout the world. In 1996, they created the Powercheck 3000, a sleek, compact product that gives businesses all the knowledge they need in the palm of a hand. The Powercheck is the perfect system for fire and safety applications.

In 1900

In the early 1990s, Morse Watchmans realized an increasing need for companies to track their sensitive keys. They also found that companies were not afraid to share their key problems and concerns

with them, which included companies storing their master keys on pegs inside locked strongboxes. They learned how keys that were lost or stolen were not always accountable. This system lacked the security and flexibility that their customers needed.

In 1993, they developed The Keywatcher II-luminated, the first stand-alone key management system that electronically released keys to authorized users. It was engineered and built in their office in Oxford, Connecticut, as they do with all of their products.

This system allowed keys to be stored in a smart storage cabinet that accounted for each user by

In the company's building in Oxford, Connecticut, every day, Morse Watchmans employees – from the skilled team of Field Service Technicians to their CEO – work together to design, build and support products that help thousands of organizations stay safer, run more efficiently and save money



access code, time and date. Keys were physically locked in place and only released to authorized users. A patented feature called Random Key Return was also implemented, which allowed users to return keys back to any open location within the cabinet, therefore, protecting sensitive keys from pattern location placement.

As the popularity of this system began to grow, their customers came forward and expressed to them new features they wanted to see, and Morse Watchmans were happy to oblige. They introduced new features such as durable polycarbonate cabinet doors, which enable users to view the keys inside and connectivity to a printer, PC or modem to give an on-demand management report with all pertinent key tracking data.

The 2000s

As the company moved into the 21st century, they always kept one thing in mind – designing innovative products that meet their customers’ needs.

In 2004, they introduced their next generation Keywatcher system – The Keywatcher Illuminated III, followed by Keybank in 2007, and the Keywatcher Touch in 2011, a more advanced version of the classic Keywatcher Illuminated system with a large, convenient touchscreen interface. This introduction was followed by the launch of the Keybank Touch, bringing ease-of-use to the Keybank market, as well.

As the security industry continues to evolve, keys remain an important element of a layered security program. Morse Watchmans never lose sight of this basic fact, and key security continues to be at the core of their solutions.

Every day, Morse Watchmans employees in Oxford, Connecticut – from the skilled team of Field Service Technicians to their CEO – work together to design, build and support products that help thousands of organizations stay safer, run more efficiently and save money. They look forward to continuing to design and manufacture innovative products that meet customers’ needs to create a secure and safe working environment for employees.

CONTACT

Morse Watchmans

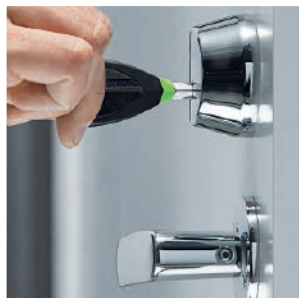
Oxford, United Kingdom
 morse@morsewatchman.com
 www.morsewatchmans.com

more info at www.PRO-4-PRO.com/security

Security Products

Self-powered Electronic Locks are Sustainable

The Abloy Pulse ecosystem now delivers highly encrypted, electronic access control via self-powered cylinders, padlocks and electronic keys – with no need for batteries or any external power supply. A user inserts their Pulse key and power is generated by inserting and turning it. This powers the lock’s encrypted electronic access control features. Cloud-based access control software ensures administrators can program Pulse keys with just the right access permission to each door for individual users. The system is easy to install because the existing cylinder is swapped for a Pulse cylinder. No wires and no batteries means Pulse is cost-efficient as well as sustainable. A single such installation can include a wired reader to secure communal doors, key-operated locks for apartment doors, and padlocks for storage rooms. Pulse keys and cylinders are reusable and re-programmable, durable and weather-resistant.



www.assaabloy.co.uk

Subscription Video Security

Avigilon Corporation has announced that its video security as a service platform Avigilon Blue is now available in Australia and New Zealand. Powered by Microsoft Azure, it is a subscription-managed video security platform featuring self-learning video analytics technology that detects the presence and movement of people and vehicles. When a potentially critical event is detected, the platform generates a notification to help business owners effectively self-monitor their security operations, while also offering the flexibility for users to contract a professional monitoring provider to efficiently verify and respond to events that may need further investigation. The platform enables video monitoring providers and integrators to remotely manage and service more customer sites with fewer resources. End-users benefit from easy web and mobile-enabled secure access as well as system upgrades that are pushed directly from the cloud, which help ensure systems remain secure and up to date. The platform’s architecture saves on bandwidth while making sure important video verification clips are archived in the cloud and accessible from anywhere.



www.avigilon.com

12MP Super Fisheye

The 12MP Super Fisheye has become Idis’s best-selling camera since its launch 18 months ago. It has performed outstandingly well, with nearly 3,000 units shipped so far. Key to this model’s popularity is that it can be used to record activity - reliably and affordably – in a wide range of situations. It was developed to meet customer demand for high image capture performance, security against hacking, reliability against data loss, ease of installation and low cost of ownership with smoother, easier operability and optimum de-warping. By addressing these priorities, the camera has been key to major contract wins and project successes. The camera is a great choice for wide area protection applications, typically replacing up to 4 fixed cameras and providing complete 360° image capture in all lighting conditions without blind spots. This delivers savings in terms of lower upfront equipment and installation costs plus a reduced maintenance and video storage burden.



www.idisglobal.com



Outdoor Network Interface Box

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www.slat.com

INNOVATION



OUTDOOR SECURITY

Secure Outdoor Parking

Company Parking Under Video Surveillance: All-in-one Solution with IP-communication Network Interface Box

Companies like to trust video surveillance systems to keep watch on their premises and their parking lots. They can react quicker if danger threatens and can already deter potential criminals in advance. And there are good reasons for doing this, as a report on car theft from the Association of German Insurers (GDV) makes clear. It shows a record total loss of €324 m over the last recorded year of 2017. That's an increase of 8 percent over the previous year.

According to statistics from the BHE (German Association for Security Technology), investment in security-related systems has grown steadily over the past few years, namely from €3.7 Bn (2015) to almost €4.4 Bn (estimated for 2018). As stated in the current market research of the BHE, a particularly large increase was apparent in access control (+6.7%) and video surveillance (+6%). "Interest in professional video technology and access control is growing not least because of its versatility in private, industrial as well as public area usage and because of its preventative effect", explained Norbert Schaaf, Chairman of the BHE.

An Outdoor Company Parking Lot, for Example

In the following example, we look at the video surveillance system for an outdoor company parking lot (area: 150m x 50m). The security of employees was the prime consideration of the owners as they decided to provide camera surveillance for the newly built area, and also to prevent vandalism and theft. On the site, there was one solitary pole suitable to mount the camera on, but it was 200 meters from the main building and there was no data cable between the two. Digging a trench to lay one was not an option for the customer. But an uninterruptible power supply for the video surveillance camera and secure remote data capture were required.

Sebastian Ratajczak from the system suppliers Primary Connection in Wolfsburg was entrusted with the concept and implementation of the system. He chose the outdoor Synaps PoE network interface box from Slat for the failure-free supply of the M16 day-night camera from Mobotix and the WLAN bridge (Ubiquiti Nanostation) that was selected for the wireless data transmission. The advantage of the outdoor box recognized by Ratajczak was that it was an all-in-one unit that was already equipped by the manufacturer, yet still had additional space for customer equipment if a specific individual solution had to be provided.



© Primary Connection



All-in-one solution for secure video surveillance. An outdoor network interface box with attached day/night camera and WLAN bridge

Complete Solution

The core components, such as the AC/DC converter, over-voltage protection, LifePO4 battery and the Ethernet switch with two PoE/PoE+ ports, were factory-fitted. The installer used the available space to fit a 24V passive PoE power supply. Now the solution was complete. The camera and WLAN bridge were powered and could be remotely monitored in real time via the secure Synaps web server connection to check the system status: whether working on mains or battery power, the current charging level of the battery, remaining autonomous operation time, the operating voltage, internal temperature of the DC UPS, the network status (display of the interfaces and connected devices) or to change parameters via the HTTPS website. A further benefit for Sebastian Ratajczak was the compact and visually attractive design of the box (IP65/IK10, polycarbonate) as well as the easy installation that was assisted by a special set of fitting parts.

It was clear to the experienced installer that he could kill many birds with one stone using this solution: the WLAN bridge avoided the need to dig an expensive trench and lay cables, and the outdoor network interface box provided him with a complete logistical solution to simply manage the interface configuration, remotely gather and securely transmit the data. "A perfect all-in-one solution", said Sebastian Ratajczak, "whose time and money-saving qualities totally convinced me."

CONTACT

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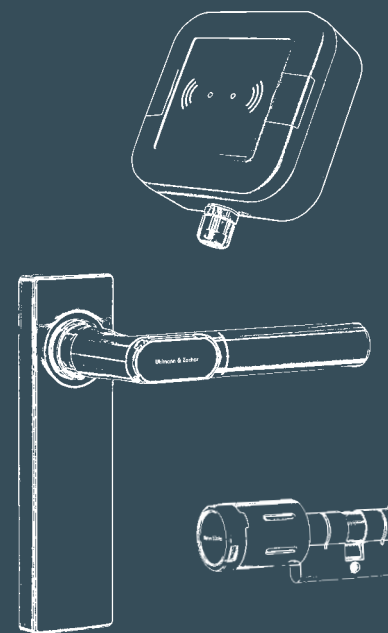
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UZ



Loxal was asked to visit the Derby Station Project compound, where £200 million was being invested in improvements in track and signalling, to see how its unique temporary access systems could improve the day-to-day running and organisation of accessing storage and office facilities within the compound.

The compound is where all works are organised, and where all staff and engineers arrive to, and exit from. Access to and from project site is gained via the compound.

Temporary site offices, welfare units and storage facilities are all within the compound.

Key loss, lock change, site surveys, assisted viewings, temporary access and the associated security issues are a constant problem for site managers.

The Products

Loxal has developed a range of secure temporary access control products that streamline access, monitor and audit not only steel security doors, but key safes, gate locks, locking bars and lock conversions. Using the latest technology, Loxal's Idacs (Intelligent digital access control system) products require no mains power but deliver performance and data you may expect to find on a hard-wired access control system.

The system can operate up to 200 unique user access codes, emergency codes, guard codes and site shut down codes, and all products can be fully integrated into a video verified remote alarm system.

The software that operates each and every one of the product range, has been successfully used on thousands of properties and sites.

Idacs is remote, wireless, and sophisticated access control management software that enables specific users to gain access and be identified on site. Seamless access is coupled with rugged, robust design.

The Derby Project Solution

Using its Idacs products, Loxal was able to produce a key-less compound.

Face Fix Key Lock Box units were installed on two site admin offices, both of which needed to be locked when not occupied.

Idacs codes were issued to all staff members who required and had access rights to the offices. This meant that staff no longer had to carry keys or access keys as and when required.

Block Locks were installed to provide gated access only to approved workmen, with all activity audited by the clever software.

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PERIMETER PROTECTION

Protecting Data and Assets

Integrated Solutions – from High Security to the IoT

e-shelter security was formed in 2003, in order to guarantee the physical security of e-shelter data centres. Since then, e-shelter security has developed into a leading technology and service provider for security and the Building Internet of Things (BLoT). With about 200 employees at locations in Frankfurt, Munich, Berlin and Bonn, the company creates integrated security solutions for e-shelter data centres all over Europe, as well as renowned technology companies and customers from the finance and consultancy sector. With the Building Internet of Things, e-shelter security is currently developing a new area of business, in which digitalisation solutions for Smart Commercial Buildings are linked to innovative security technology. We discussed with its two managing directors, Dr. Tristan Haage and Bernhard Scharf, as well as security technology and BLoT experts, Kai Friedrich and Matteo Lugaresi, how they and their company are creating an innovative range of solutions using security and new digital technologies and why they rely on Sony for video technology.

GIT SECURITY: What are the main challenges when it comes to protecting data centres and critical infrastructure and how do you overcome them?

Bernhard Scharf: With all projects, we begin by analysing the risk situation, protection objectives and use plan, before devising technical and organisational security concepts. When it comes to data centres, customers' ideas and requirements are particularly multi-faceted and demanding. We attach a great deal of importance to being a one-stop-shop for all premium services – from planning and setting up security systems, to monitoring

them at our own certified emergency call and service centres. This means that we manage a security system's full life cycle, as well as the entire alarm chain. Data centres and critical infrastructure are characterised by the concentration of technology within an extremely small space, high expectations from users, who are often fierce competitors, high security requirements and a clustering of various security sectors with different requirements and user groups. This means that our task is to create a seamless security concept, which enables a wide range of users to interact harmoniously on a single campus. Clearly regulated access for all groups might sound easy, but it requires a great deal of

technology, strict processes, cooperation and discipline from the customer, as well as comprehensive monitoring and all the documentation. The whole system must be fully secure, comprehensible for users and run smoothly, without unnecessarily slowing down processes.

What prompted you to also offer integrated security systems outside the data centre sector and in which markets are you active?

Bernhard Scharf: Based on our long-standing experience of providing security for data centres and complex projects, we have acquired "campus intel-

ligence”, which we also offer to other companies with complex security challenges within the premium sector. We also manage the entire security system life cycle for customers within this sector. It is easier for us to implement less complex projects in sectors with lower security requirements, than to tackle high security projects for integrators, which do not have our experience. We concentrate on the German-Austrian-Swiss market, but have also created projects in Singapore, Geneva, Madrid and London, where customers were looking for our specific approach, reliable quality and innovative technologies.

What experience and expertise do you contribute?

Tristan Haage: First of all, we come with the right attitude. Reliable quality and innovation are in our DNA. At e-shelter security, we integrate “best of breed” technologies from all security technology sectors and do not rely on standard solutions. We combine them with digital technologies, which have first been tested in a proof of concept, so that the building or campus of the future becomes more intelligent and secure. We achieve this by means of a highly qualified interdisciplinary team of experts in video technology, access control and biometrics, network technology and cyber security. Our project leaders manage large and ambitious projects mainly in Germany, but also in other parts

of Europe. Coming from the IT and data centre environment and with our parent company Investa, which has been developing real estate for 45 years, we also have unrivalled access to technology partners, proptech start-ups and the real estate market. What we bring from this environment is a corporate culture with a special dynamic and work rate, which are seldom found in traditional and established companies.

You prefer to use Sony cameras in your projects. What was behind this decision?

Kai Friedrich: We pay attention to high picture quality when selecting cameras and choose “best of breed” when it comes to video technology. Sony is well-known for very high quality image sensors and especially under poor light conditions. An additional factor for us when selecting systems is high quality with an extremely low failure rate. We use over 2000 Sony cameras, out of which only two have failed in the past due to a product defect. In any partnership, we value reliability and the excellent technical support that we receive. Our contacts at Sony Video Security advise us when we select products and plan facilities, especially when innovative solutions are needed and difficult decisions have to be made. When it comes to innovation, we see the new arrangement and partnership between Sony and Bosch as very positive. In terms of video analytics, image

sensory technology and integration into projects, which require artificial intelligence, the partnership may prove a real asset for us as customers.

How important is the partnership with the provider – both during development and when security solutions are in operation?

Matteo Lugaresi: Very important. We gain a great deal by working with manufacturers, which share their roadmaps with us at an early stage. With Sony, platinum partners are able to test new systems before they are introduced onto the market. The use of new algorithms, intelligent video analysis, machine learning and AI are very important for a high security campus like e-shelter. Video technology is a technology driver for many applications and it is important to integrate and test new technologies together at any early stage, in order to find out what it is possible and when the limit has been reached. Integration of video technology with other digital technologies is especially important for us. Examples include linking of video to visitor management, or documentation of parcel box processes in a smart lobby. The use of video technology to record room occupancies in the smart building sector is another example of how we have already been working together closely since the development phase. A manufacturer’s portfolio should be wide-ranging and match our



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The e-shelter project

A wide range of video technology is used to protect the e-shelter data centres, combined with access control technology and a sophisticated security management system. Bullet network cameras from Sony and PTZ dome cameras form the backbone of the installation on the outer campus and along the perimeter. High resolution dome cameras are used in the actual buildings. Both inside and outside, the Sony cameras are frequently supported by Flir thermal cameras, which facili-

tate detection and video analysis. All video data is combined in the Cayuga video management system from Qognify, in which video analysis also takes place. All alarms from the video technology are merged with the access control data and fire alarm technology across all professional fields in Advancis Winguard.

All security and fire alarm systems from all data centres are activated in our own cluster of certified emergency call and service centres. The

alarm, service and access control management are all controlled here, which is a complex task due to differing uses of the data centres. Each tenant or customer must be able to rely on the fact that only he has access to his area and the route is already protected. The visitor can reach his destination (for example, his data rack) from the campus entrance by means of a sophisticated access control system and innovative technologies, with only his authorisation having to be checked.



High resolution cameras, Systems using AI and thermal cameras secure the data centers

requirements. This extends from conventional applications for perimeter protection to applications in IoT systems. For example, we are currently testing facial recognition and people counting using Sony cameras and AnyVision software.

What is the cost of integrating individual systems in order to create an overall solution?

Kai Friedrich: Of course, it depends on the project, but the decisive factor is that we take our time and look after all aspects of the task, from planning to implementation and operation. Particularly for a security network, one of the most important questions concerns who will take care of systems for the customer when they are in operation, so that the solution continues to function for a long time. When it comes to video technology, integration of cameras into video management software is facilitated by effective cooperation between the camera manufacturer and VMS manufacturers. This applies particularly to less common models, which are used especially on the German market. In the future, this will be even more important. A major change will take place, as more intelligence is being built into the cameras all the time and they no longer just serve as imaging systems, whose data is then processed on the server or in the management systems, as is often still the case.

What are your plans for the new BloT business sector?

Tristan Haage: BloT is a strong growth market and we can see a huge backlog demand for digitalisation on the real estate market. We want to move away from the silo view of each individual professional field in the building and link cyber security to physical security and the IoT, in order to create a unique solution. Through our parent company, we have especially good access to real estate and campus projects, in which we are pioneers in the way that we combine the different worlds and provide security and digitalisation for the building and campus of the future. For example, it is used for the integration of mobile access control, recording occupancy of rooms and areas in real time by video, or digital visitor management with biometric reconciliation.

What is your view of cyber security for video surveillance and IoT solutions, which you contribute to Smart Building projects?

Matteo Lugaresi: Any IP devices that we integrate must not pose an additional threat to the system. Cyber attacks, with which we are familiar from the security technology sector, were not very highly developed and could have been prevented by taking simple technical measures on the relevant IP devices, responsible handling of passwords and by taking greater care when setting up systems. Whether it is security technology or BloT, we adopt a consistent approach and include cyber security in the risk analysis, planning

and operation of systems. We conduct penetration tests, as well as vulnerability scans using our own analysis system. In addition, for the purpose of incident monitoring, we work with leading IT security experts. But we are also continuously in contact with our technology partners, such as Sony, in order to identify potential cyber risks quickly and prevent risks, for example, by installing the latest security updates on the cameras. Of course, if only one firmware per camera series is available from the manufacturer, this facilitates installation of these updates. We test all devices before integrating them into a security system and also take a critical look at the provider before making our choice. This is especially vital for projects in the KRITIS environment.



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Dr. Eva Maria Buchkremer,
Product Manager at Innosent

PERIMETER PROTECTION

Easy Integration of Radar Technology

Thanks To Smart Tracker, Radar Technology Can Be Integrated into A Security System without Much Effort

In this expert interview, Dr Eva Maria Buchkremer describes how Innosent resolves a customer challenge and sets new standards with advanced technology.

In recent years, Innosent, a developer and manufacturer of radar sensors, has brought innovative solutions for the security sector to the market. Nevertheless, the demand for integration possibilities in existing systems is increasing. Simple solutions are needed. As a product manager, Dr Eva Maria Buchkremer was involved in the development of new radar systems and knows about the challenges faced by customers. Now, she's answering GIT SECURITY's questions.

GIT SECURITY: After the successful marketing of the iSYS-5010, Innosent devoted itself to a new project for the field of security. What drove you to develop this product? Where did the idea come from?

Eva Maria Buchkremer: Through our regular customer survey, we learned about an important concern of one of our customers. He wanted to integrate radar technology into his product, but it posed a major challenge for him. Not every security equipment manufacturer has the necessary competence and experience to deploy sensor systems within their own company. Radar is very complex and there are not many experts who are familiar with its integration and signal processing.

Many companies therefore rely on further support. Since the demand for this technology is on the rise, we saw the urgent need to act in order to improve the situation.

The advantages of our successful security systems should be available to everyone. In other words, we addressed our customers' issue and developed products that make system integration easier. Innosent is taking an important step towards final application for our customers and facilitating access to radar.

For which area of application have the products been developed?

Eva Maria Buchkremer: The systems are intended for commercial use of the security sector and are aimed at security equipment manufacturers who wish to combine radar with their own equipment, such as cameras or an alarm system. The radar systems help to significantly reduce false alarms and boost the efficiency of security surveillance. The addition of a radar system compensates for disadvantages such as lacking image transmission due to bad weather or vandalism.

Radar is particularly well-suited for outdoor use. After all, these sensor systems work flawlessly

and monitor a very large coverage area even under bad lighting or weather conditions. A foggy stretch of land or dusty, dirty terrain is no challenge.

The products are appealing not only for use in traditional perimeter surveillance in open spaces. They are also fine-tuned for use in a built-up, industrial area. The systems are optimised for monitoring moving objects. They possess a wind and rain filter and users can mask areas. If desired, the radar detection can simply ignore areas outside of a fenced area, such as a street or pavement. In addition, the end user can define alarm zones and use the radar sensor system to trigger an action – for example, controlling a camera or activating an alarm. Radar also serves as an anonymous security technology, thus ensuring privacy protection. Use in public places or at company premises is thus possible.

You already mentioned that the new products facilitate the integration of radar. How did you achieve this?

Eva Maria Buchkremer: We have developed a real highlight for the industry: The tracking function. This feature takes on a large part of the necessary assessment of radar data. Through the

tracking license, customers benefit from extensive data signal processing. Without the Smart Tracker, the system provides numerous detections that the customer has to evaluate and categorise themselves. For correct evaluation, he has to be very familiar with the effects of the technology. With our Smart Tracker, we achieve a new level of system integration and reduce the entry hurdles into radar technology. Customers can utilise radar technology and integrate it into their products with little effort. The tracking provides information about the movement behaviour of the detected objects, which is particularly useful for the security sector.

Why is the tracking helpful?

Eva Maria Buchkremer: The tracker combines individual radar detections into objects. This clustering enables objects to be tracked over time. Looking at the history, precise statements can be made about the behaviour of the object. In addition to a clearly illustrated path, also referred to as a track, the function is important for reliable locating. Thanks to the tracker, the radar system detects when a person has changed directions. The function also features the option to briefly pause the course of a track. This is convenient if a person stops moving for a short moment or changes postures. The track is not lost, and the detections are correctly assigned to the same object.

What technical features do the new radar systems have?

Eva Maria Buchkremer: The radars provide safety-relevant information such as the speed, direction of movement, distance, and position of moving objects. Their performance and precision clearly stand out in the field of security. Our new products employ advanced 24-GHz MIMO technology. They also offer an angular resolution additional to speed and range resolution. We oriented the characteristics specifically on the industry's requirements and emphasise compliance with FCC and ETSI certification standards. A filter prevents noise from wind and rain. Very precise differentiation is made between such object classes as vehicles and persons.

You already mentioned the growing interest in radar sensor systems. Even renowned security equipment manufacturers seem to be taking a look at radar. Is this a new trend?

Eva Maria Buchkremer: Due to the many advantages in comparison to other technologies, demand is on the rise in the security sector. Radar is not a short-lived trend. Thanks to further technological development, radar offers an increasing number of applications for the market. Radar sensor systems used to be very expensive and were considered too complicated, lending themselves

only to larger-scale projects or certain sectors, such as air and ship traffic. Today, the technology has taken hold in our everyday lives. We are supporting this development with well-engineered and cost-effective products. The application possibilities are continuing to be developed and have a long way to go. Perhaps the technological fusion with radar will soon become standard.

What other projects for security or further developments of the product are in store at Innosent?

Eva Maria Buchkremer: Generally, the continuous optimisation of our products and innovation are crucial to Innosent. We are considering to further expand the security area, and we see a lot of potential for our technology. For example, solutions for near-range surveillance and very long-distance detections are conceivable. But, of course, we are also utilising our expertise for ideas relating to other or related markets. In our development department, things are never quiet.

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There's no need to fear the dark. With industry leading low light sensor technology that outperforms even under challenging lighting conditions, Sony's video surveillance products meet market demands with best in class image clarity, advanced future-proof technology and their lowest overall total cost of ownership. The **NEW SNC-HMX70 360° Hemispherical Cameras** with advanced analytics are the latest addition to the portfolio. Why look any further when you can be seeing everything you've been missing. Find out more about what Sony video security cameras can do for you at [boschsecurity.com/sonyvideosecurity](https://www.boschsecurity.com/sonyvideosecurity)



HOME SECURITY

Convenience Combined

Ksenia Offers Home Security and Automation in One Combined Unit

Although utilizing similar protocols and methods of connection, the worlds of home security and home automation have tended to develop as two separate systems until now. Ksenia has a useful range of central components and peripherals to equip homes and small offices with a comprehensive solution that combines both functions into one convenient system. And the developers have also provided an opportunity for a remote maintenance and programming business model.



The velum movement detector forms an invisible protective curtain

The Italian manufacturer Ksenia Security offers the Lares 4.0, its new Security and Home Automation platform. The open platform in its various IoT solutions, hybrid and wireless, from 16 to 644 I/O, has easy scalability and is remotely programmable, even from a mobile phone. All the home automation and security systems features are managed on a single, compact control panel with IP/Ethernet connectivity, supported by 3G backup and vice-versa. The highly evolved wireless control panel is dedicated to the professional distribution channel, and designed for the most advanced residential applications. And thanks to a partnership Agreement with Loquendo, Ksenia security installers and end-users have the privilege of using a TTS (text-to-speech) converter, choosing from male and female voices as well as 38 different languages for personalized voice messages.

The IP integrated lares platform can manage ONVIF devices, the standard communications protocol for video surveillance cameras. The installer can scan the network using the basis configuration software, at the end of where all ONVIF compatible IP cameras will be displayed. The installer can then select the device relative to that room and assign a label. From the configuration of floor plans (which are integrated and free) it is possible for the end user to check what is happening inside each room equipped with a camera by a simple click on their phone or PC.

Message Received

Lares 4.0 is equipped with 868 MHz wireless technology, fully bidirectional and compatible with all wireless Ksenia Security devices already available on the market. Maximum reliability for each device is ensured by the continuous notification of transmission to the control panel, up to confirmed reception. Communication between the devices and the control panel is protected by encryption of all messages, while complex algorithms in power management for transmission ensure a long battery life and minimum interference. New features are available for video surveillance and video verification by a streaming connection of an undefined number of any ONVIF cameras and

by sending email screen-shots with video attachments related to the time-frames of selected events.

Smart App

The system can also manage lights, air conditioning, irrigation, automatic doors and windows or any type of home automation or appliances. In addition to the security aspects, Smart Home or Smart Building features can now be managed by a single user app (lares 4.0) and programmed by the installer from any mobile terminal via the Ksenia Pro app. This installer app also enables the geo – localization of all installed panels and therefore the ability to offer maintenance and service, connecting to the system by reading a QR code. The system is certified to EN50131-Grade 3 and T031. Lares 4.0 wls 96, the new self-contained/all-in-one system includes a master unit in black or white polycarbonate, with an embedded IP interface and transceiver, an LCD soft-touch keypad, an indoor siren, a power supply protected by an already installed fuse and prepared to connect a backup 12V battery. The control panels are equipped with a double bus and detachable connectors, so all motherboards are designed to be directly fitted with both the 3G Module (and soon the 4G-LTE) and, where required, the PSTN module. The transmission of voice messages, email, contact ID and SIA DC-09 Level III protocol to the CMS (central monitoring stations) is guaranteed.

Security Peripherals

The velum wireless detector – outdoor ,curtain' – protects areas such as canopies, porches, below balconies or windows. The sensor is equipped against sabotage attempts, and fitted with an accelerometer to prevent tampering when mounted on the wall. The nebula smoke detector is also available with an opaque glass cover to match modern decor. The wireless technology used is fully bi-directional (each device acts as a transceiver, ensuring that every transmission receives a confirmation message). Battery consumption is optimized and reliability improved, compared to traditional mono-directional systems us-



Home automation and security combined in one elegant central unit.



The nebula smoke detector in the opaque glass version blends into a modern decor.

ing the 868 MHz frequency band with FSK modulation, by sophisticated proprietary control of power transmission (DPMS – Dynamic Power Management System). This also reduces interference and optimizes the transmission power, dependent upon the distance between the devices and the type of installation. All wireless devices have a unique serial number that is automatically acquired by the system during installation. The signal level of each device – and the communication path if there are more bus receivers or any repeaters – is indicated in real time, both on the programming software and on the keyboard of the ergo series.

Nice, But Loud

The imago self-powered outdoor siren is a professional acoustic and visual sounder with a visually attractive, extremely slim design (6 cm deep) that combines state-of-the-art technology with the maximum energy saving. It has a high sound pressure, a power LED alarm light and 2 LEDs for auxiliary signaling. The siren is run by two microcontrollers: one deals with major processing, in order to verify all conditions and to perform all required actions while the other is for RF communication channel management (bi-directional) to receive commands, send alerts, diagnostics, etc. The imago wireless has two power supply solutions: either a proprietary alkaline battery pack 7,5V 8Ah, non-rechargeable (to be replaced) or an external power supply (9-12Vdc) with rechargeable lead-acid battery. The charging status of the batteries and, if necessary, the level of the external power supply are constantly monitored so warnings of failure, missing or low batteries are reported to the main system.

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Design, Functionality and Simplicity

The newest device in Assa Abloy's Aperio wireless access control portfolio spent 2018 collecting awards for innovation, operation and design. The Aperio H100 electronic handle received Detektor International's Innovative Achievement Award and also Intersec's Access Control Product of the Year. It combines the power, flexibility and functionality of wireless access control into a simple door handle. With easy retrofitting to almost any interior door, broad RFID compatibility via an inbuilt credential reader and simple integration into third-party access systems, this handle makes it cost-effective to extend access control to many more internal doors. No wiring is needed and the device works either with an online access control system or offline. A standard battery fits inside the H100's slim handle, ensuring a minimal footprint and a discreet look suited to any door style. „The stylish and robust design has proven a perfect fit for high-traffic office and facility doors,” says Murtaza Husaini, Assa Abloy Marketing Director for the Middle East, where Intersec named the H100 their Access Control Product of the Year. „You still use the existing mechanical cylinder, but the handle adds powerful access control functionality without wires, very simply.” The new model broadens the Aperio range of wireless access control devices that already includes online and offline cylinders (C100) and escutcheons (E100), an online and offline security lock (L100), and a wireless lock for data center storage (KS100) to integrate it into the same access control system as doors.






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It was 40 years ago, in a coffee house in Kyoto, that the idea of Optex was born. Toru Kobayashi, an electronics engineer, and three like-minded colleagues shared a vision for a new business, a business that had sensing technology at its heart, precision technology that could detect the ‚status‘ and ‚changes‘ of people and things. Their vision became reality on May 25, 1979. Fast-forward to 2019, and this vision is still as important today as it always was, and Optex has established a deserved reputation for excellence. Today Optex is a world leading manufacturer of high performance sensing technologies, trusted by thousands of customers worldwide for the accuracy and reliability of its detection systems. We have interviewed Toru Kamimura, President of Optex Japan, who is head of the Security division, about the history and the future of the company.



◀ Toru Kamimura,
President Optex Japan
(Security division)



Toru Kobayashi,
Founder of Optex ▶

INTERVIEW

It Started with a Vision

Optex Celebrates 40 Years Anniversary

GIT SECURITY: What was the vision of the founders?

Toru Kamimura: Optex was established in 1979, setting as its goal of ‚contributing to the creation of a safe, secure and comfortable society and industries with sensing technology which enables the precise detection of the ‚status‘ and ‚changes‘ of people and things‘. The vision still remains today and the idea is to solve challenges by using sensing technologies. It has led Optex to create some exciting solutions for a number of niche applications.

You mentioned that some of the original ideas found their way into the company culture and are still valid across the whole organisation. How did this happen?

Toru Kamimura: We use a locomotive analogy to explain our culture: rather than the management driving the team, we actively encourage the team to drive the engine forward. It is a collaborative and entrepreneurial culture, and one that empowers every employee to have the same dreams as the original founders. The founders‘ vision is about

developing employees as individuals, to build their own skills and talents, and to make a positive contribution to the wider society.

If you were to name three key technological achievements, what would they be?

Toru Kamimura: Optex’s competitive advantage has always been around its sensing algorithm know-how. The know-how built up through many years of field-based technological development is our most valuable asset, and central to the evolution of its Far-Infrared, Near-Infrared and Laser sensor technologies which we would identify as the three key technological achievements since we started the business.

In those 40 years, what has been for you the biggest change to access control and intrusion detection?

Toru Kamimura: the biggest changes have been around wireless and IP technology. Home security systems have evolved from wired to wireless, and IP based systems have become popular with wide-

spread use of IP cameras. One of the first significant changes in the electronics industry has been the development of digital technology, which has enabled our R&D teams to develop new detection algorithms and analytics that make our sensors significantly ‚smarter‘ and more ‚intelligent‘. Today we are using machine-learning and artificial intelligence software to further enhance our detection algorithms and make them even more „automated“. The development of video cameras and visual devices to monitor and analyse events and the development and dominance of IP security systems versus analogue have shaped the industry. These two changes have led to the development of more ‚connected‘ devices, integrating our systems into wider video surveillance and video monitoring solutions.

How has that change impacted your company?

Toru Kamimura: Optex was one of the first one to bring wireless sensors to the market in 1983 and we have since been successful in bringing new indoor and outdoor wireless sensors onto the market. A key factor to this success is the very low energy consumption of our sensors making them

last longer. Optex is also working closely with wireless alarm panel manufacturers to provide a easy to install and reliable home security systems. With the increasing popularity of CCTV, Optex added to its portfolio with the acquisition of the Redwall brand in 2001. Redwall has become synonymous with long-range precision detection and has benefited from further investment from the Optex R&D team to integrate with the latest generation Video Management Software (VMS) platforms. More recently, we have been partnering with a number of complementary technology businesses to ensure its future generation, laser scanning detectors (LiDARs) and IP sensors are integral to current and future generation VMS and PSIM-led solutions.

What kind of impact do you think had Optex in the world?

Toru Kamimura: Our sensors and sensing technologies are implemented in many industries to improve everyday lives, like our automatic door sensors. Many automatic door manufacturers are using our sensors and it wouldn't be surprising that the door of the next shop, office, hotel, hospital or leisure center you visit will be triggered and opened by one of our devices. On the security side, our outdoor sensors are keeping thousands of home and business owners safe from intruders. The last ten years has seen a significant growth in high security and critical infrastructure projects, protecting the perimeters of utilities, airports, distribution and data centers and government buildings.

How do you see the future for Optex?

Toru Kamimura: Our future is to carry on solving problems by using sensing technologies. We are working at making our sensors a more active part of the overall solution by adding more intelligence, connectivity, easier integration, visual verification and stronger communication protocols.

What are the key goals for Optex in EMEA in the next 3 years ?

Toru Kamimura: Optex Europe EMEA is the sales, marketing and technical support structure for the security products while our office in Netherlands is the HQ for the entrance business. On the security side, our key goals for the next three years are to carry on supporting our core business with distribution by providing more localised sales, technical and marketing, support throughout the region. Developing the project business for higher security sites and critical infrastructure is another goal, that requires working closely with the project teams of our distributors as well with consultants and system integrators, providing support for site visits, system design and help with commissioning. We will strengthen our existing technical alliance partnerships, and developing new partnerships remains a key focus for us in the next few years. To provide the right solution to the end-users it is essential that different components of a security

Facts, Figures and Milestones

- 1,963 employees
- 35 companies worldwide
- Subsidiaries in 12 countries and represented in 80 countries
- 2018 Turnover was approx. 320 million Euro
- 36% Security sensors
- 11% Automatic door sensors
- 21% Factory automation
- 24% from Machine vision lighting
- 8% other products
- Production capacity of about 3 million sensors a year
- In their three main business fields, Optex products have world's No. 1 market share.

YEAR	MILESTONE
1979	Optex Co., Ltd. was founded on 25 th May by Toru Kobayashi together with 3 other engineers in Otsu, Shiga and Japan.
1979	Launch of the first product, HP-01A, a security sensor using far infrared in October.
1980	Introduction of the OP-01A, the world's first automatic door sensor using passive infrared.
1983	Release of Optex outdoor wireless PIR TO-1FU.
1985	Foundation of Optex USA in California.
1990	Release of the first wireless product: CX-40R and CX-60R series.
1991	Establishment of Optex Europe in Berkshire, UK to expand sales in the European market.
2001	Optex acquired Security Enclosures (Redwall brand) and launched Redwall LRP, a detector that changed the industry's perception of using passive infrared in outdoor applications.
2004	Acquired Giken Tastem (people counter) and established Optex Security in Warsaw
2007	Optex the Accurance OV-101 system to detect security access tailgating
2008	Acquisition of Optex Technologies in the Netherlands.
2009	The first laser sensor RLS-3060 (first to be used for the security industry)
2009	Released the first product with SMDA logic – FTN series
2010	Entered the LED lighting field by introducing an LED light control system
2010	Acquisition of Fiber Sensys Inc., manufacturer of fibre optic fence protection systems.
2012	IP sensors with the PIE-1 and first integration with Milestone Systems XProtect platforms and Axis Camera Application (ACAP).
2013	Acquisition of Raytec, manufacturer of LED lighting, in the UK.
2014	Opening of EMEA (Europe, Middle East and Africa) Headquarters and the re-organisation in three main regions: EMEA, APAC and Americas.
2014	Release of the long range Smart Line active infrared beams, up to 200m.
2016	Launch of the Redscan RLS-2020, PoE, 20x20m LiDAR.
2017	Opening of the DACH (Germany, Austria and Switzerland) branch in Offenbach, Germany.
2018	ViiK vehicle detection sensor and counter series released to most markets.
2019	Launch of the WX Series, 180 degree PIRs and the visual verification products.

system not only talk to each other seamlessly but also that the integrity of the system cannot become compromised. This means ensuring that the performance of every device on the system is monitored and that the communication protocol is safe. We will carry on working closely with our VMS, PSIM and Camera Manufacturer partners to ensure this.

Will you expand your offering?

Toru Kamimura: Visual verification has a been an area of activity for us for many years. Our REDWALL long range PIRs and LiDARs help to create an event driven-solution for security systems being either monitored locally or remotely by Remote Video Response (RVR) centers. We are now extending our offering by providing additional products and

solutions for visual verification. Two new solutions are being brought to the market to help us on the way: one solution combines a camera and outdoor sensor to provide a self-monitored visual verification for residential premises; the other provides a way to bring CCTV and intrusion system together in monitored residential or commercial sites where both were previously working separately.

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Panasonic cameras and the Video Insight video management system deliver a greater sense of security for Korskærparken's residents

VIDEO SURVEILLANCE

Greater Sense of Security

Formerly Disadvantaged Housing Association Increases Security

Korskærparken, in Fredericia, is a formerly disadvantaged housing association, built in 1969 with 238 dwellings. In 2017, the housing association underwent a thorough renovation to create an attractive and safe residential environment with 'cozy' common areas. Previously on the government's 'ghetto list', the security upgrade has contributed to Korskærparken being taken off the list.

Challenge and Solution

As part of a major renovation, the housing association updated and optimized their video surveillance system, creating a greater sense of security for residents. To increase the security of a disadvantaged housing association with a high crime rate, whilst also keeping costs to a minimum.

The combination of Panasonic's Video Insight Platform, WV-S2531LN dome cameras and WV-1531LN cameras, resulted in Korskærparken being taken off the government's watch list. We can continue working with the cameras, changing them continuously and updating the software free of charge. With this solution, we are futureproof.

"We had an older video system that didn't function optimally. When we needed a recording,

the camera did not always work," explains Per Skau, the administrator at Korskærparken. "During the renovation, he had to choose between buying a completely new system or upgrading the old one."

Recycling Old Equipment and a New VMS

Korskærparken considered various security options in collaboration with Scanview, a company that specialises in setting up and operating video surveillance. Together, they found a solution with Panasonic Video Insight, a software solution that can be used with Korskærparken's already existing cameras, optimising cost savings. Additionally, new WVS2531LN dome cameras and WV-1531LN

cameras have been installed on account of their high image quality and the dome model is also resistant to vandalism.

Korskærparken already had an old video solution, but instead of a complete replacement, they wanted to reuse the existing servers. The old software was therefore replaced with the new Panasonic Video Insight software which is extremely compatible with all types of platforms. The new system was installed on seven-year-old servers replacing the old VMS System and achieving cost savings on hardware. Additionally, the Video Insight System uses a common database that enables the cameras to move between servers to avoid overloading the operating systems' processors.

The new Video Insight 7 VMS Software from Panasonic was redesigned from the ground up to provide enhanced performance and stability, maximize scalability and offer new premium functionality. Video Insight is aimed at making the entire video management suite more intuitive, more powerful, easier to use and with a lower Total Cost of Ownership (TCO). TCO is a big factor when it comes to projects with limited budgets like in this project. „Korskærparken has got a future-proof video solution with no additional costs for maintenance and updates of the software. There are some clear advantages of using Panasonic cameras, but it is great it is also possible to use and reuse the existing cameras,” says René Bøgeskov, Key Account Manager at Scanview.



René Bøgeskov, Key Account Manager at Scanview and Korskærparken’s administrator Per Skau.

Future-proof solutions

The solution was installed in October 2018 and so far, Korskærparken’s administrator Per Skau is satisfied with the new solution. “We can continue working with the cameras, changing them continuously and updating the software free of charge.

With this solution, we are future-proof,” he says. For Korskærparken’s residents, the surveillance upgrade has meant a greater sense of security in everyday life.

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more info at www.PRO-4-PRO.com/security

Security Products

Bespoke Mechanical Locking Technology

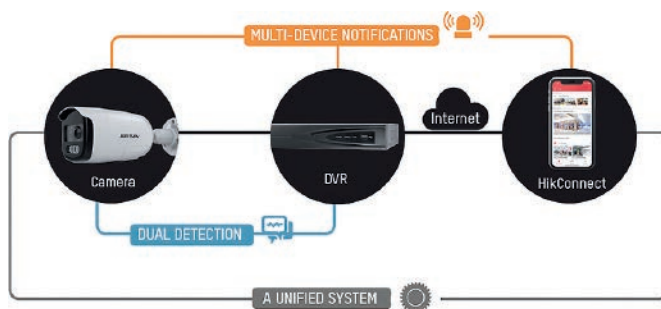
Winkhaus’ range of tailored locking technology solutions has been enhanced with a system for complex units since the launch of key Tec N-tra+ in 2017. There are still a lot of building owners who opt for mechanical locking technology. Winkhaus’ keyTec N-tra mechanical turn key system for individually-secured cylinders satisfies the requirements of private building and home owners, as well as shop owners and small businesses. It is handy, smooth-running and reliable. The symmetrical key geometry and reversible key function make inserting the key incredibly easy. All doors in the building, including the garden gate, can be opened using a single key. To satisfy the requirements of more elaborate systems, Winkhaus has introduced the key-Tec N-tra for small, medium-sized and large locking systems. As of 2017, keyTec



N-tra+ has also been available for large properties. The technical features of N-tra+ include the added security of an additional AZE protection control element. Locking hierarchies can be easily expanded and the keyTec N-tra upgraded to keyTec N-tra+ during operation, as only individual cylinders and keys have to be replaced or added. Both systems are patented and feature numerous protection mechanisms, including standard anti-drilling and picking protection and an individual security card for ordering additional Winkhaus keys and cylinders. With the ergonomic key made of hard-wearing nickel silver, the customer receives tested quality in accordance with DIN 18252 and DIN/EN 1303. The system is manufactured using environmentally-friendly processes in Winkhaus factories in Germany. www.winkhaus.de

HD Security Solutions

Hikvision has launched its Turbo HD X Series, a complete system to help stop intruders in real-time, and avoid damage to and loss of property. The cameras detect infrared light emitted by human bodies, distinguishing them from other visual noise. Once the camera detects a potential intruder, its built-in siren sounds and it flashes red and blue lights to frighten the intruder away. The camera series can support a broad range of perimeter protection and security system processes to initiate warnings, and to provide



evidence after an event. It transforms traditional passive monitoring from a post-event investigation approach to perimeter protection with active deterrence to protect people and assets. It can be used in warehouses, residences, jewelry stores and more. The cameras can also be integrated with the company’s Acusense DVRs whose intelligent false-alarm reduction technology disregards movements picked up by rain, leaves. This integrated solution dramatically reduces the number of false alarms. www.hikvision.com

SECURITY MANAGEMENT

Security Management



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FACILITY SECURITY

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ALARM MANAGEMENT

Alarm Management



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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



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Alarm Management



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Security Management



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Alarm Management



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Security Management



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Fire Alarms, CCTV, Voice Alarm Systems

Facility Security



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