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GIT

MAGAZINE FOR SAFETY AND SECURITY

SECURITY
EMEA



Intersec Dubai

Security for Hotels

Fire Protection

Perimeter Protection

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Video Management

**COVER: ASSA ABLOY
ELECTRONIC LOCKING SYSTEMS**

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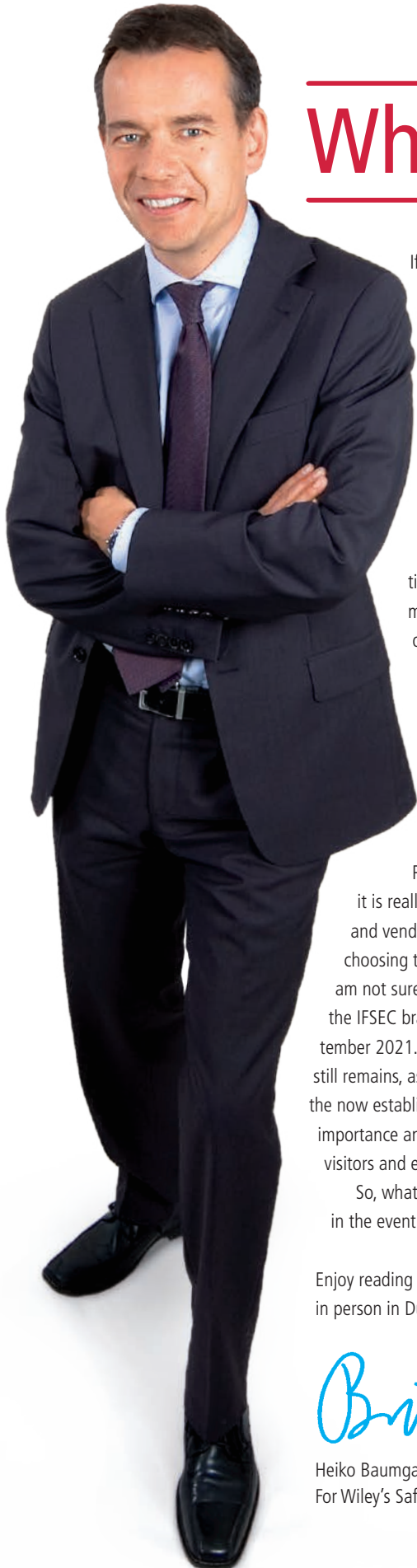
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Where to go?

If you are a vendor for security or safety equipment, would you want to miss an unrivalled exposure to the global security community? Is there any security professional who would not want to take part in an event that is perfectly designed by the industry for the industry? If you are an active part of the industry can you afford to miss a show that is the leading international source of inspiration or the leading event connecting building management with security in the heart of Europe?

Years ago, conferences and exhibitions were more or less the only opportunity to connect with other experts in the field and to see the newest products and developments in technology live. Magazines and books were the only other source of expert knowledge. With the rise of social media and all the opportunities the internet offers, one might think that networking and gathering information makes physical events obsolete or at least not that important anymore. As a result, one would expect a shrinking market for exhibitions or at least a consolidation in the event landscape. For security and safety events we do see the opposite at the moment. New events are launched everywhere. In 2020 we will see the launch of Intersec Building in Frankfurt followed by the second edition of The Security Event in Birmingham, a strong competitor to IFSEC in London. Security Essen will attract a lot of international visitors in September later the year.

As a security professional you have the freedom of choice between these events if you do not want to start earlier in the year with a visit to the Perimeter Protection show in Nuremberg or Intersec in Dubai. From my point of view, today, it is really a freedom of choice. You can still have the opportunity to meet enough experts and vendors in all security and safety categories to get the information you need while choosing the best place and time to do so. All these events seem strong enough today, but I am not sure what will happen in the years following. Organiser Informa is looking to expand the IFSEC brand in continental Europe with the announcement of IFSEC in Amsterdam in September 2021. Even though the security market is a market with healthy growth, the question still remains, as to whether there is enough space for even more security events in addition to the now established trade fairs. The vertical shows for specific industries and markets are gaining importance and the growing number of roadshows and company network events compete for visitors and event budgets.

So, what can we expect in the coming years? Freedom of choice today, and a consolidation in the event tomorrow is what I expect.

Enjoy reading this issue! We look forward to seeing many of you in person in Dubai in January at Intersec.

Heiko Baumgartner
For Wiley's Safety and Security team



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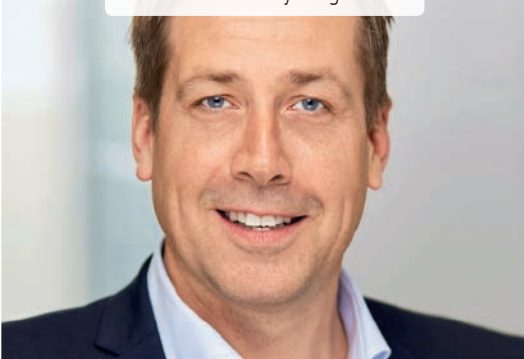
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Motorola Mobile Technology for Police Scotland Officers

Police Scotland have begun the rollout of Motorola Solutions' Pronto digital policing application suite for officers in Glasgow. The application will replace the police officers' traditional paper notebooks, and they will be able to directly fill in reports on their mobile devices for crimes, road collisions and traffic tickets. Officers will be able to use the handheld device to do many of their key administrative tasks in the field, without returning to the station. The reduction in officers continually moving back and forth between the front line and the station to complete administrative tasks will result in a significant time saving and dramatic efficiencies for the force as a whole. Officers can also directly access local and national police databases such as the Police Command and Control system, the Scottish Criminal History System and the Police National Computer, ensuring they have access to the most up to date information at all times. Pronto is already used by twenty police forces and more than 40,000 officers across England, Wales and the Channel Islands.



www.motorolasolutions.com

Trio of Acre Companies to Highlight Portfolio at Intersec 2020

Acre companies Vanderbilt, Comnet and Open Options are gearing up toward an exciting Intersec show that will highlight the collective experience and depth of solutions available from the Acre portfolio. Key features on display will focus on the brand's strength in cloud solutions, open platforms, smart integrations and cybersecurity. Core to this message will be the cloud-based solutions SPC Connect, a hosted cloud-based solution designed specifically for installers to monitor, manage and maintain SPC panels remotely from any location and ACT365, Vanderbilt's platform for access control and video management. Both have won trophies such as GIT SECURITY, Benchmark Innovation, PSI Premier and Detektor International awards. The Vanderbilt SPC intrusion system is also known for its cybersecurity protections and the bespoke communication platform, Flex C, that was built from the ground up with cybersecurity in mind. Open Options will make their debut at Intersec to showcase their powerful DNA Fusion access control software, as well as their Mercury-based hardware, highlighting integrations such as video management software from Milestone and Xprotect. www.vanderbiltindustries.com

U&Z is a Winner at the Intersec Awards

Uhlmann & Zacher has won the prestigious Product of the Year award in the Access Control category at this year's ceremony in Dubai. The submitted 'Access Solution with Bluetooth' was chosen by the jury. Hartmut Beckmann, Head of Sales and Business Development, commented, "We are very pleased to be the winners of the prestigious Intersec Award. This confirms our team's commitment to being a pioneering developer in the industry." The access solution, with innovative Bluetooth technology for the Electronic Door Handle/Fitting and Electronic Knob Cylinder, distinguishes itself from other solutions by using so-called blockchain technology. This means that the locks are not dependent upon a central server. The Mobile Key Solution is available for the versatile product range of the Electronic Door Handle and Door Fitting as well as for the classic Uhlmann & Zacher Electronic Knob Cylinder.



www.uundz.de

Teleste Video Security Solution for French Motorway Safety and Surveillance

APRR (Autoroutes Paris Rhin Rhône) Group has selected Teleste's S-VMX Video Management System for upgrading its motorway safety and surveillance infrastructure. The system will be implemented by a consortium composed of Teleste and ENGIE Ineo. Under the terms of its concession agreements, APRR invests heavily in its 2,323 km network in order to improve travel conditions and satisfy customers' new mobility requirements. Teleste's S-VMX system will monitor and secure the East and South of France Motorways network, including the motorway routes as well as car parks and rest areas. The project is expected to be delivered during 2019 and 2020, and the contract scope includes a 10-year maintenance agreement. In addition to the powerful video core, the systems can control large amounts of information from multiple sources within the operating environment to ensure that the right information is available to the right people, when and where it is needed.

www.teleste.com

Idis Solution Suite Video Management for Zandvoort Motor Racing Circuit

An upgrade of surveillance, using the latest video technology from Idis, has put Circuit Zandvoort in pole position as a host venue for the 2020 Formula 1 Grand Prix in the Netherlands. A complete overhaul of the video monitoring capability now meets the requirements of Formula 1. While significantly improving security and safety surveillance of the track, the solution will also let the Formula 1 organizers temporarily receive functional authorized access of video data for the duration of the competition. At the heart of the system is Idis's server-crunching, 64 channel DS-IR300 NVR technology, pre-loaded with Solution Suite video management software. This allows all the track's existing cameras to be easily integrated and operated alongside the latest Idis 5MP speed dome PTZs and 12MP bullet cameras. It also delivers ultra-high-definition monitoring capability using Idis Smart UX Controls. The system now provides real-time image capture with no lag, ghost-shadowing or stuttering of images, even when cars traveling at high speed are displayed.



www.idisglobal.com

UK Universities Adopt Safezone Solution

A new wave of UK universities is adopting Critical Arc's Safezone service for improved campus security, including the University of Greenwich, University of South Wales, University of East Anglia, University of Manchester and University of Central Lancashire. With more than 25% of universities now using Safezone across the UK, it addresses key challenges for universities by enabling students and staff to quickly and easily reach their campus safety and security teams, and by allowing first responders to respond to calls for assistance faster. Through its advanced command and control software, Safezone Omniguard enhances team efficiency, with real-time situational awareness making it easier for command teams to see and coordinate resources to address incident hotspots. It also supports heatmap mapping to enable patrol pattern optimization and improves workplace health and safety, serving as a powerful lone worker solution.



www.criticalarc.com

Inter Airport Europe 2019 Closes With a Record Visitor Number

The 22nd edition of Inter Airport Europe, the International Exhibition for Airport Equipment, Technology, Design and Services, ended with a record visitor number. During the four exhibition days, a total of 14,962 trade visitors from 108 countries came to the Munich Trade Fair Centre in Germany to discover the latest trends in the airport industry and source innovative equipment and systems. This represents an 8 percent increase in visitor numbers compared to the previous show in 2017. With a total of 659 exhibitors from 40 countries and a net exhibition space of 33,550 square meters, Inter Airport Europe 2019 could also increase its floor space by 5.5 percent compared to the previous event and was therefore bigger than ever. The most important exhibitor countries after Germany were France, Great Britain, the USA, Italy, the Netherlands, China, Spain, Sweden and Austria. Of the exhibitors, 74 percent came to Munich from outside Germany. www.interairportheurope.com



Dahua's Closed-Loop Customer Value

Dahua Technology, a video-centric smart IoT solution and service provider, hosted its annual summit "Dahua Heart of City – Leading The Intelligent Twins Evolution" in Shenzhen, China. More than 400 industry representatives, industry experts, and media representatives witnessed the achievements of Dahua Heart of City (HOC), providing smart applications in the era of "Intelligent Twins", as well as the release of cutting-edge technologies based on 5G, AIoT, and big data. Company president, Ke Li, delivered a speech and expressed a warm welcome and gratitude to the guests. According to him, the continuous evolution of technology has caused users' needs to be constantly updated, forging user value to lead "The Digital Twins" to "The Intelligent Twins". The company has been continuously enhancing its core capabilities in AIoT and big data to create closed-loop management from the sensing level to the business level, and to build a new smart city architecture with a closed-loop value chain. www.dahuasecurity.com



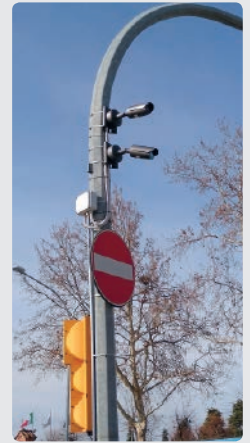
New Idis Distribution Centre for Europe

In a boost for video project implementations across Europe, all Idis cameras, network recorders and accessories are now available to partners with next day delivery with the opening of a new distribution and after-sales service centre in the Netherlands. Idis, which is Korea's largest in-country surveillance manufacturer, is opening the new distribution centre to improve customer service and accelerate growth by supporting local distributors in each country through much faster delivery times, with all stock to be available within days, not weeks, even for the largest projects. "Our expanded operation means a huge step up in customer service," says Joon Jun, President of the Global Business Division, Idis. "It can take a long time for buyers to choose a new video solution, but once they decide, they want it very quickly – we will now be able to do that, right across Europe, and in most cases we will dispatch same day for orders placed before midday." www.idisglobal.com



Intelligent Traffic Monitoring

The city of Bologna has chosen Wisenet video surveillance cameras to create a smart traffic management system. Bologna is the seventh most populous city in Italy with approximately one million people and a diverse range of traveling requirements. The City invested in a video surveillance solution to monitor twelve vehicle access gates to provide reliable real-time information about urban mobility. It purchased eighty-nine Wisenet cameras manufactured by Hanwha Techwin. Twenty-four are bullet cameras equipped with Traffic Data, an edge based application, while another twenty-four have the Roadway License Plate Recognition application. By integrating high image quality and advanced video algorithms, Wisenet 'intelligent' cameras are able to enhance the value of video surveillance by supporting mobility and security in Smart Cities. Forty-one 2MP 23x IR PTZ dome cameras have been located at major road junctions to see close up detail of any incidents. www.hanwha.com



Change in the Management of Primion

Andreas Kupka, CEO of the Primion Group since May 15, 2018, has informed the workforce that he will be leaving the company on September 30, 2019 due to personal reasons. The Supervisory Board of the Primion Group has responded reluctantly to Andreas Kupka's request, said Eduardo Unzu, Managing Director of the holding company Azkoyen S.A. based in Peralta, Spain. He thanked the parting CEO and wished him all the best for the future. Jorge Pons Vorberg (picture) will take over the management of Primion until a successor is introduced. Both the strategic projects and goals as well as the expansion of the company will continue to be driven forward, he said. www.primion.de/en



Salto: New Version of MyLock

New design, improved user experience, and new features help planners and architects better envision and design new lock projects: Salto Systems has upgraded MyLock, the online lock configuration customization tool that allows users to choose and see potential door configurations prior to purchase. With MyLock, users can select a Salto electronic lock model, door type, and choose from a broad range of colors, finishes, handles, and functions. The new MyLock design has an improved user experience for web as well as mobile access and adds important new capability including configuring accessory products like wall readers. Salto Space access control management software and Salto KS Keys as a Service compatible product ranges are also included. "Whether it's a change model, finish, or door type texture, Salto MyLock users can easily navigate through a menu to make their selection and customize the chosen model as much as possible," said Borja Ganzarain, Salto Systems Marketing. "They can choose between different door standards and technology platforms, like Salto Space access management software or Salto KS cloud-based solution, and opening mode options like contactless smart card, mobile key, or keypad." www.saltosystems.com

Gunnebo and Insafe Launch UK Partnership

In the UK, Gunnebo's Business Unit Safe Storage have moved into a partnership model for sales and distribution of safes, where a partnership agreement has been signed with the safe distributor Insafe. 'With Insafe as our selected partner in the UK we will get an excellent market coverage with a very professional company as well as getting an opportunity to further grow our business in the UK market', comments Stefan Syrén, SVP Business Unit Safe Storage. Insafe will now get an even better opportunity to serve customer needs in the UK and an opportunity to have a direct impact on product development and offering from Gunnebo for the targeted customer verticals. 'This partnership is a unique opportunity for Insafe as a UK safe company to combine our customer service with the Chubb safes brand', comments Alan Bullock, Insafe's founder and chair. The initiative will offer existing and new customers a synergy of the very best service levels combined with products from both companies. www.gunnebo.com



Salto Systems Achieves Environmental Product Declaration (EPD)

An EPD is an independently verified document that reports environmental information about the entire life cycle of a product, in this case, the Salto XS4 Original narrow smart electronic locking range. Producing an EPD is an internationally recognised way for companies like Salto to be transparent about the environmental impact of producing and maintaining products. Salto XS4 models and smart lock technology for access control from Salto Systems, which can be used to retrofit doors or be used in new building construction doors, was designed to be environmentally sustainable and was a factor in Salto achieving such favourable EPD results. It is not uncommon for security and technology companies to conduct life cycle assessments. EPD verification required data to be collected and reported according to strict rules and standards. www.saltosystems.com



Slat Announces Strong International Sales Team

Francois Lagadec has joined the international sales team within Slat. In his role as sales manager for southern Europe and the Middle East, Francois brings extensive sales experience with him in professional intercom, access control and video applications. Together with Michel de Ruiter, sales manager for northern Europe, both sales professionals will drive global sales growth for Slat security solutions and strengthen the company's worldwide position. This includes the UPS (uninterruptible power supply) based business for safety and security applications, more solution-oriented packages in fire detection, access control, video surveillance, technical networks, building automation and, especially, all-in-one solutions such as the factory-fitted Synaps outdoor network interface box. www.slat.com



Francois Lagadec



Michel de Ruiter

UL and Viakoo Collaborate on Physical Security Systems Compliance

UL officially announced a strategic collaboration with Viakoo to mitigate ongoing operational and cyber-hygiene issues commonly found in physical security systems. Together, UL and Viakoo will explore opportunities to provide services and best practices to help businesses maintain compliant physical security systems that are resilient to cyber threats throughout the service life. UL and Viakoo are teaming up to help develop solutions to solve critical challenges and strengthen security. UL will leverage its deep technical expertise around the performance, reliability, interoperability and cyber protection of physical security products and systems to provide certification services and promote methods for improved cyber-hygiene for IoT application systems. Viakoo also brings a wealth of knowledge to the alliance, with over 650 million hours of service assurance data on physical security systems, digital twin IoT technology, and experience in cyber hygiene of IoT systems. www.viakoo.com



Intersec, Light Middle East, and Prolight + Sound Middle East to run side-by-side in January 2021

Messe Frankfurt Middle East, the regional subsidiary of Messe Frankfurt, is to co-locate three of its exhibitions in Dubai to capitalise on visitor and exhibitor synergies. Light Middle East, the region's premier exhibition, conference and awards for lighting design and technology; Prolight + Sound Middle East, the dedicated exhibition and conference for Professional Lighting, Audio and AV Technology; and Intersec, the world's leading trade fair for security, safety and fire protection, will now run side-by-side at the Dubai World Trade Centre from 24-26 January, 2021. Prolight + Sound and Light Middle East will skip a 2020 showing, and will return to their usual annual status from 2021 onwards. Intersec, meanwhile, will run as a solo event in its 22nd edition from 19-21 January 2020. www.uae.messefrankfurt.com



Simon Mellor,
CEO of Messe Frankfurt Middle East

Kurt Takahashi is Pelco's new CEO

Pelco announced the appointment of Kurt Takahashi as Chief Executive Officer, effective November 1, 2019. Previously, Takahashi held the position of President of Amag Technology, a global end-to-end security management platform. At Amag, his innovative leadership transformed the company from being an access control focused business into an open, innovative security management solution specializing in access control, video surveillance, visitor management, identity management, incident and case management, and a fully integrated command and control software suite. Prior to Amag, Takahashi was the Vice President of Global Sales and Marketing at Quantum Secure where he led sales, business development, and marketing to drive global pipeline and top-line revenue growth. www.pelco.com





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www.stid-security.com



EVENT

Security Under the Sun

Security, Safety and Fire Protection Are in Sharp Focus of Intersec 2020

The 22nd edition of Intersec will take place from 19-21 January at the Dubai World Trade Centre, featuring more than 1,300 exhibitors from 59 countries. This year the show will be structured in seven key show sections of Commercial Security, Fire & Rescue, Homeland Security & Policing, Physical & Perimeter Security, Safety & Health, Cyber Security, and Smart Home & Building Automation.

This all sets the scene for three days of busy networking and knowledge-sharing at Intersec 2020, which returns with the key support of long-standing Government partners such as the Dubai Police, Dubai Civil Defence, Dubai Police Academy, Dubai Municipality, and the Security Industry Regulatory Agency (SIRA).

Keep the Overview with the official Intersec Dubai show app

Like in the years before, GIT SECURITY and Messe Frankfurt Middle East will present the official Intersec Dubai show app in 2020. The app is the ideal companion for all, is available now and will be updated constantly. With the app you can find the exhibitor of your choice, use the app offline and still find your way through the exhibition, be inspired by our Theme Tour suggestions and insert notes to every exhibitor you meet.

Intersec Intelligence Forums 2020

With the well curated content, designed specifically to suit the specific needs of the fire, safety

and security professionals, Intersec 2020 will host the Intersec Intelligence Forums bringing together a plethora of learning and networking opportunities to the show floor. Conferences, workshops, roundtables, live demos and arenas will wait for the visitors.

■ Intersec Future Security Summit

Disruptive technologies and the integration of digital and physical Security are the key topics of the Future Security Summit. Industry experts will analyse critical security threats, examine security loopholes in business ecosystems and discuss how cutting-edge technologies can be tailored to meet the evolving security requirements of your business.

■ Intersec Fire Conference

This conference will integrate Fire Engineering with the prevention, protection and suppression of Fire and will feature case studies, panel discussions and keynote presentations by regulators, fire chiefs, key solution providers and industry experts. The focus will be on advanced fire safety technologies, evolving regulatory requirements, standards and more.

■ Intersec Government Summits

Roundtable discussions and meetings led by key government authorities, policy makers and regulators, will facilitate an industry-to-government dialogue in pressing issues in civil protection, regional security, critical national infrastructure protection and more. The government summit will also feature updates from the Security Industry Regulatory Agency (SIRA).

■ Intersec Energy Industry Focus Day

Process safety and risk management for this industry sector will be the focus of the discussion. Analysing and evaluating various innovative strategies and new approaches to safety, security and fire protection in the oil and gas, petrochemical and energy industry is the aim of this event.

■ Intersec Academy

Workshops, certification courses and professional trainings as part of the Intersec academy will offer niche training and hands-on workshops for corporate safety and security managers. The focus will be on best practices, methodologies and standards in Corporate Risk Management, Emergency Re-



sponse and Disaster Management, Occupational Safety and Health, and Travel Security.

Intersec Arena: Solving Digital Security Challenges

The Intersec Arena is a new and interactive space for product comparisons, technology-focused discussions and solutions evaluation to educate end-users. The Intersec Arena will analyse the security benefits as well as emerging risks and vulnerabilities with the implementation of the latest technologies and innovations in an evolving digital world, share insights into new technologies, innovative products and solutions that the security industry has to offer to mitigate cross-sector industry-specific challenges. The idea is to connect solution seekers with developers of game-changing innovations and educates end-users on the purchasing criteria.

The arena will have 3 focus days:

- Day 1: Digital Technologies and Security, where the security benefits, as well as emerging risks with the implementation of latest technologies, will be discussed.
- Day 2: Key industry Focus, an interactive session involving key stakeholders of the retail, BFSI, Oil & Gas and construction industries.
- Day 3: Making informed procurement decisions, will have end users and solution providers brainstorming on purchasing criteria, key requirements, and considerations when making a purchasing decision.



GIT SECURITY and Messe Frankfurt Middle East present the official Intersec Dubai show app. Use the QR-Code for download.

The Future of Intersec

Starting in 2021, Light Middle East, the exhibition and conference for lighting design and technology; Prolight + Sound Middle East, the exhibition and conference for Professional Lighting, Audio and AV Technology and Intersec will now run side-by-side at the Dubai World Trade Centre from 24-26 January, 2021. Prolight + Sound and Light Middle East will skip a 2020 showing and will return to their usual annual status from 2021 onwards.

“This is a strategic move to maximise visitor and exhibitor turnout as all three shows share a similar visitor appeal, whether system integrators, installers, specifiers, or consultants,” explained Simon Mellor, CEO of Messe Frankfurt Middle East. “With all three shows taking place at the same time, exhibitors will meet a more focussed audience and visitors will be able to take in the entire integration range under one roof. We’re creating a powerful event alignment featuring more than 1,700 exhibitors from 60 countries.”

Other developments include the inclusion of an Events Security Pavilion and Conference that will spotlight the entire range of services and products dedicated to securing live events, concerts, festivals and major sporting occasions. Messe Frankfurt Middle East says the show trio will find greater traction among its main target visitor groups which include event organisers, leisure and entertainment operators, hospitality professionals, hotel developers, construction experts, architects, planners and consultants.

CONTACT

Messe Frankfurt Middle East
Dubai, United Arab Emirates
Tel.: +971 4389 4538
www.intersecexpo.com

EVENT

Life At The Edge

Perimeter Protection, the Exhibition for Active and Passive Building and Perimeter Protection, Opens in January

There is a boundary to your site, and you need to secure it. Where do you start? There is the passive approach using fencing, gates, pedestrian access and vehicle entry blocking systems as well as, nowadays, drone detection. And then there is the active approach, making use of intruder detection and alarm systems, outdoor surveillance, access control, exterior lighting and active drone defense. To help you choose which combination will be right for your particular situation, pay a visit to the Perimeter Protection show in Nuremberg in January.

Finding the perfect interaction of mechanical and electronic components will be made easier by consulting the many experts in their field at Perimeter Protection. The exhibition presents IT solutions for integrated security systems and fencing systems and focuses exclusively on the security of outdoor sites and facilities.

As the threat has quietly become far more significant in the past few years, there will be a focus topic of drone detection and defense this year.

Make a Date

Make a date in your diary/planner now to be in Nuremberg, Germany, from 14–16 January 2020. The event is open daily from 09:00–17:00 at the Exhibition Center in Nuremberg. This is just an eight-minute tram ride from the central station, or easily accessible via the motorway network with excellent active road signs guiding you to the best parking spaces.

Perimeter Protection concentrates on the various segments of the site protection, fencing systems and building security markets. Architects,

security officers and buyers from industry, official agencies, local authorities, building services planners and installers of building security systems meet here for a highly professional exchange of ideas in a friendly atmosphere. The event was designed in cooperation with leading security associations, such as the Verband für Sicherheitstechnik and the Gütegemeinschaft Metallzauntechnik e.V. The product spectrum and supporting program are 100% tailored to the needs of the security sector.

Highly Appreciated

The figures for the last event show that the sector had been waiting for an exhibition devoted exclusively to "active and passive site protection". The fifth edition of Perimeter Protection in 2018 closed with above-average figures. 98% of the visitors were satisfied with the event. The need for security, and thus investment, in alarm systems, video surveillance, access controls, locking systems and fencing systems is growing all over the world. The Perimeter Protection event provides an opportunity to obtain a concentrated market overview

of integrated solutions for building and site security, especially solutions that intelligently combine fencing systems and electronics.

There will also be a Jobboard centrally located at the exhibition. This will be of interest not only to job-seekers looking to apply their professional talents and qualifications for a new employer, but also for those companies who are finding it hard to reach people with the right set of skills and experience in this specific industry. So the Jobboard will provide companies with the opportunity to find qualified personnel within and beyond the scope of the trade fair Perimeter Protection, and both job seekers and employers will benefit.

CONTACT

NürnbergMesse GmbH

Nuremberg, Germany

Tel.: +49 911 8606 4902

www.perimeter-protection.de/en/

intersec

19 - 21 January, 2020 | Stand S2-D42

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EVENT

Connected Security in Smart Buildings

Light + Building and Intersec Building Aim Focus on Safety and Security

Climate change, a dwindling supply of natural raw materials, continuous migration to the metropolises: tomorrow's challenges can only be solved with intelligent, networked buildings (smart buildings) whereby networking encompasses all parts of a building – from the electricity supply, taking account of regenerative energy (smart grid), via safety and security technology and operational regulation through interconnected building-automation systems, to control via mobile devices. The prerequisite for all this is systems interoperability, the only way network risks can be mastered.

Greater Security and Economic Efficiency

The connection of safety and security systems with each other and with other building services also offers new functionality and results in greater safety, security and economic efficiency. For example, remote monitoring of hazard-warning systems via the internet by the maintenance service-provider ensures increased availability and avoids unnecessary service callouts. Nowadays, it is possible to combine personalised access control technology with fire-alarm systems in such a way that, in the event of fire, it is immediately apparent which employees are still in the danger area.

Other conceivable scenarios are still a long way off. For example, building users with mobile de-

vices or other connected wearables could receive a personalised warning in the case of an alarm. But that's not all: smartphones connected to the building-automation system could also use an indoor navigation system to guide users out of the building via a safe escape route. To this end, an adaptive escape-route guidance system would evaluate information received from connected mobile devices and, by intelligent control of dynamic escape-route signs, avoid dangerous congestion in the escape routes.

Avoiding System Clash

The use of common sensors in safety, security and building-services systems also has a positive impact on economically efficient building opera-

tion. Thus, information from the motion sensors of a burglar alarm and the temperature sensors of the fire-alarm system can be used to control the natural flow of air within a building. Nevertheless, such interactions can be highly complex, as shown by the simple example of an automatic window. In this case, the burglar alarm requires the window to be closed before the systems can be armed at the same time as the building-services control system calls for the window to be opened so the premises can cool at night. And, finally, in the case of fire, the natural smoke and heat exhaust ventilation system must have priority over all other systems, including the window blind control, and be able to open the window immediately. Numerous sensors and actuators come into play in this case,

which can lead to conflicts and demands that priorities be set and potential scenarios be drawn up. In this case, too, it is evident that joint digital planning is of the essence.

Cyber Security and Data Protection are Musts

Also in the case of tomorrow's safety and security systems, an increased volume of data will flow via the building's common data wiring and via the internet. Strong IT and cyber security, as well as solid data protection are essential prerequisites to protect safety and security systems from unwanted feedback effects from the network and deliberate cyber-attacks. A high and, for safety and security systems, new risk is the increasing linkage with mobile devices and other embedded devices in the IoT. In many cases, these compact devices, most of which are connected wirelessly, are inadequately protected against unauthorised attacks. If, due to inadequate security measures, hackers can assume control of one of these embedded devices, they then have access to the entire internal network to which it is linked. And there are no special security precautions to stop them because today's firewalls

are rather designed to prevent external attacks – not attacks from the internal network.

Today, the damage caused by cyber criminals worldwide is already extensive. According to a study by the Accenture firm of management consultants, companies all over the world will face additional costs and revenue losses amounting to around US \$ 5.2 billion over the next five years. Fortunately, there is a growing awareness of the dangers involved among businesses and building operators. Thus, according to the Allianz Risk Barometer, cyber incidents were the most-feared cause of operational interruptions in 2019 (50 percent of responses), followed by fire / explosion (40 percent) and natural disasters (38 percent). For the first time, cyber incidents now rank among the biggest business risks in the world.

Take Advantage of Opportunities

Light + Building offers a variety of opportunities for an interdisciplinary exchange of expert ideas and information on the situation in the sector. As one of the key issues facing the sector and users, 'connected security' will be one of the main topics within the framework of the top theme – 'Con-

necting' – at Light + Building in March 2020. Ensuring that participants find the right safety and security offers is an exclusive guide that not only localises all suppliers of safety and security technology at the trade fair but also describes and schedules specific offers. "The subject of connected safety and security is an integral part of the technical infrastructure of a building. Accordingly, it is to be found in the product portfolio of numerous exhibitors throughout Light + Building. At the same time, we have integrated several hot spots to spotlight safety and security products and expertise", says Iris Jeglitza-Moshage, Senior Vice President of Messe Frankfurt, drawing attention to the special-interest theme of 'Emergency lighting' in Hall 8.0 and Intersec Building', the international platform for connected safety and security technology in Hall 9.1.

CONTACT

Messe Frankfurt Exhibition

www.messefrankfurt.com

www.light-building.com

www.intersec-building.com

www.intersec-forum.com



A Focussed Plattform on Connected Security

Heiko Baumgartner talked to Iris Jeglitza-Moshage, Chief of Communications, Senior Vice President Technology at Messe Frankfurt Exhibition about Intersec Building in the context of Light + Building

GIT SECURITY: What feedback did you get from the exhibitors and what can visitors expect when they come to Frankfurt for Light + Building and Intersec Building?

Iris Jeglitza-Moshage: The feedback we are receiving regarding a focussed platform on connected security within Light + Building is genuinely positive. Of course this is not entirely unexpected for two reasons: Firstly, the industry directly requested such a format. Secondly, smart buildings can only gain and maintain their status if a multitude of systems are intelligently integrated and interconnected. Besides e.g. progressive energy management or lighting naturally access control and other security relevant smart features have to be part of a state-of-the-art construction. Establishing Intersec Building as a specialised platform within Light + Building, directs even more attention to the integral approach we require to take homes and buildings to the next level of efficiency.

How do you manage the security link between Light + Building and Intersec Building?

Iris Jeglitza-Moshage: To begin with: Connected security has always been a vital element of Light + Building. And, indeed, exhibitors put their according innovations at display all over the fairground. That is why we set-up a Special Interest Guide. From that it is easy to deduct for visitors where to find the connected security technologies at disposal. For instance, there will be emergency lighting at Hall 8 and street lighting at Hall 4.0 – as generally light is one of the most crucial factors for increasing security. Moreover, we shall be concentrating the range of security technology products and services in a particular hot spot: Intersec Building is therefore present at Hall 9.1. This international platform for connected security is a vital element of linking both, product groups as well as specialists. It's high density know-how is a direct result of 13 Messe Frankfurt Safety, Security and Fire trade shows from around the globe – among them Intersec Dubai and Secutech Taipei.

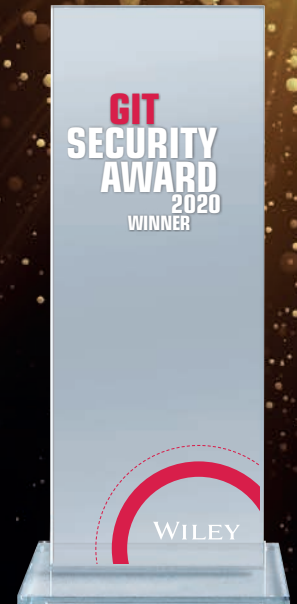
Could you give us some details on the conference program that focuses on connected safety and security technology?

Iris Jeglitza-Moshage: Connectivity can only generate intelligence and, therefore, economic efficiency when all building systems are linked. In this connection, a common language is essential. Thus, the fully integrated digital planning of safety, security and building-services systems is a must for the future. And only Intersec Building at Light + Building makes this evident. Within this framework, the Intersec Forum conference functions as an information interface at which around 80 experts will discuss their experiences and current challenges. The conference will highlight the subjects of semantic interoperability, artificial intelligence (AI) in buildings, cyber security, building information modelling (BIM), fire protection, emergency and safety lighting, video technology, smart-access management, burglar and alarm systems, technologies, services and the legal framework.

GIT SECURITY AWARD

GIT SECURITY AWARD 2020 – The Winners

It's that time again: The winners of the GIT SECURITY AWARD 2020 have been confirmed. The editorial team will present the top three products in categories A to F.



Category A

IT Security and Safety for Automation, Cyber Security

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.



1st
Place

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.

2nd
Place



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.



3rd
Place

intersec

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Category B

Fire and Explosion Protection, Industrial Safety



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.



2nd
Place

Hikvision: DS-2TD2466T-25X

Explosion-Proof Thermal Network Bullet Camera

This camera uses a vanadium oxide uncooled 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.



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.

Category C

Video Security Systems (VSS)

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.



1st
Place

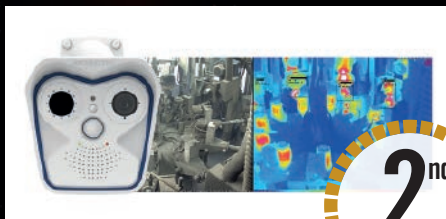
Category C

Video Security Systems (VSS)

Robotix: 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 Robotix 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.



2nd Place

3rd Place

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", 28", 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.

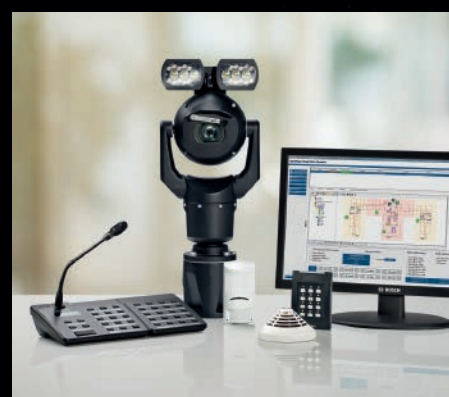


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Category D

Access Control, Intruder Alarm, Perimeter Protection



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.

1st
Place



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.

3rd
Place



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.

Category E

Safety and Security Management, Services and Solutions

**1st
Place**

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.



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.



**2nd
Place**

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.

Vanguard Network Cyber Management System



**3rd
Place**

Category F

Special Category Smart Home



1st
Place

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 auxi-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.

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.



2nd
Place

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.



3rd
Place



Installer APP



User APP



automations control



burglary system



light management



remote audio verification



irrigation



CCTV integration



heating and air conditioning



access control

Complete Integration



Google Home



amazon alexa

lares 4.0 - 16:

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

lares 4.0 - 40:

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

lares 4.0 - 40 wls:

40 IN + 40 OUT - 12 partitions - on board 868 Mhz bi-directional Wireless interface (DPMS - Dynamic Power Management System) and 2 KS-BUS Interfaces.
Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).

lares 4.0 - 140 wls:

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).

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).

Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).

lares 4.0 wls 96:

up to 32 radio peripherals and up to 96 wireless zones. It is possible an essential BUS-based expansion: up to 3 user interfaces (a choice among ergo keyboard, volo and volo-in proximity readers), 1 BUS siren (imago or radius), 1 domus to manage the functions of the programmable thermostat.

Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).

ALARM RECEIVING CENTERS

Alarm and Echo

Reducing Call Handling Times for Emergency Services and Alarm Receiving Centres

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Electronic Call Handling Operation (Echo) is the name of a new project. A project where the British Security Industry Association (BSIA), the Fire Industry Association (FIA) and the Fire & Security Association (F&SA) will be playing a key role in development. The project aims to deliver a centralised fully automated electronic call handling service to reduce pressure on the emergency services and alarm receiving centres (ARCs) by reducing their call handling times and errors that can occur from manual response handling.

The fire and security industries had long felt the development of Fire and Security alarm transfer from protected premises to emergency services were falling behind the technical advances being made in today's digital communications. Three industry trade associations were keen to see more effective working practices: The BSIA, the FIA and the F&SA and set up the Electronic Call Handling Operation (ECHO).

Eliminating Human Error

Echo will generate significant savings to the emergency services as it eliminates human error, a common issue that was brought to forefront of the discussions between National Police Chiefs Council (NPCC) and the private security industry following the Hatton Garden incident in London in 2015. Following those discussions, the decision was made to implement an electronic transfer process.

The NPCC set a target of 2020 for all Alarm Receiving Centres (ARCs) to be operating on an electronic platform. During the review it became clear that the best way to connect to these centres would be via the Government's PSN network and the police PNN system; this, together with ways to format and translate the data, have formed the key to the two possible options presented to the Echo board. Both possible solutions have been beta tested and have been proven to work. Advice was received from a procurement specialist at the Home Office who has assisted the Echo board in moving to place a supply contract.

These pilot schemes have proved that Echo will improve efficiencies and a number of alarm companies and police forces are now accepting electronic transfers, including: Metropolitan, Essex and Avon & Somerset and Northamptonshire Police. Alongside this, the Echo management team are working on the business process and method that will be used for an ARC to easily connect their customers to the Echo system.

What are Echo System Benefits?

- **Fast alarm verification:** At present most alarm calls are passed via a voice call from the ARC to the blue light responder. This is slow and resource intensive, passing these calls from machine to machine will speed the process up thereby reducing response times.
- **Accurate incident Information:** The system will also reduce the potential for human error, such as mishearing an address or transliterating an incident type, ensuring accurate information is transmitted automatically.
- **Automatic event incident acknowledgment from 'Blue light' service to ARC:** ARC's currently ask for the incident number for their event log. With electronic transfer this can become an automatic function again reducing time and cost on both sides.
- **Improved key holder response from ARC to 'Blue light' responder:** Responders to the event normally wish to know the key holder details and their ETA at the site. Currently, this is a very manual process, but can, following research, be incorporated into the electronic call handling process.
- **Possibility to let ARC have close down code automatically:** At present, the ARC passes a call but often does not know the result of the event i.e. was this a false alarm or genuine event? Having this information would help the ARC work with the system maintainer to reduce unwanted alarms.
- **Will enable URN status machine to machine checks to be updated regularly:** Police URNs may be withdrawn or suspended, but the ARC is not always aware of this, if a regular data base update is carried out machine to machine this will reduce unnecessary calls.
- **Additional situation information traffic may be passed:** Any additional information about an event is often available from today's alarm system i.e. 'roller shutter door rear premises open' or 'fire 3rd floor temperature 80 degrees'. Passing this in a

practical and timely manner is difficult at the moment, but once linked machine to machine it will be much easier to achieve.

- **Enable possible cloud-based URN applications to be made:** The URN application and payment system being operated currently does not make use of most of potential benefits that a cloud-based application process may offer. Again, if implemented the URN can be auto linked to both, the ARC and the 'Blue light control systems'.
- **Further development may see the ability to pass live audio/video to the responder:** This may be a further development of the additional situation information, with more and more video images becoming available live streaming from the event to the responder may be offered and routed via the Echo system.

As you have probably noticed, all of the above is based on security systems. Fire Alarm systems have exactly the same issues when it comes to handling alarm signals to central emergency service Centres and ARC's. Work on the fire side of the operation will logically follow on upon completion of beta tests.

Author

Ian Moore, FIA CEO



CONTACT

Fire Industry Association (FIA)
Hampton, United Kingdom
www.fia.uk.com

SHAPING THE FUTURE



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FIRE PROTECTION

Old Masonry

Protecting the Engineers of Tomorrow at One of Southern Europe's Most Important Research Centres

Dating back to 1808, the origins of the University of Belgrade when it was founded as a 'High School', it now has over 89,000 students and is currently the largest university in Southeastern Europe. The building is old, as was its fire system.

The project at the University of Belgrade's School of Electrical Engineering, involved installing a fire system to reliably protect lives and property while respecting the value and authenticity of its 1920s features. This meant overcoming various problems presented by outdated construction methods, inaccessible areas and high ceilings.

What was Installed?

Thanks to their performance, quality and ease of use, a network of three of Advanced's 4-loop and one of its 1-loop MaxPro 5 fire panels, including over 1000 Argus detectors, were chosen to protect the entirety of this top educational and scientific institution, including the facilities of Civil Design, Mechanical and Electrical Engineering.

What was the Advantage?

Advanced's local partner in Serbia, TVI, was responsible for the design, installation and commissioning of the project. Electrical Engineer, Radomir Kerkez, at TVI, said: 'The flexibility of Advanced's fire panels to adapt to sites both, large and small, is what makes us choose them time and time again. Advanced products make even the most complex installation challenges straightforward and we can always rely on them to deliver complete protection.'

The multiprotocol fire system solution MaxPro 5 was recently certified to the EN 54 standard by FM (Factory Mutual). It offers customers a choice of two panel ranges, four detector protocols and a completely open installer network, backed up by free training and support.



Solution for Prestigious Buildings

Advanced, owned by FTSE 100 company Halma PLC, has a long history of protecting some of Europe's most notable and prestigious buildings, including Athens' Stavros Niarchos Foundation Cultural Centre, Istanbul's Hagia Sophia and Sofia's Sofia University.

CONTACT

Advanced

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Security Products

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Advanced Management Tool for Fire Detection

Kentec has launched VR Nimbus, an advanced management tool for fire detection that enables integrators and service companies to remotely access and manage their fire safety system. The package allows end-users to gain access to data from all fire-safety systems to assess their performance and to make fact-based decisions using the latest analytical technologies. It also runs fire detection tests and documents the events in real time to the Nimbus cloud to compile the latest status reports. The new technology provides an in-depth event log which extends beyond that of the fire panel itself; events can be easily filtered to view specific event types and within specific date and time ranges. Notifications detailing the event action, associated control panel descriptive labels and protocol data can be sent to any number of recipients. Nimbus is a non-intrusive add-on to Kentec's Taktis or Syncro addressable fire system meaning installation and connection can be completed in minutes. The system also comes with three possible phone applications for both iPhone and Android, using the Nimbus cloud, delivering fire alarm notifications until the alerts are cleared.



www.kentec.co.uk

New Fire Detector Range

The new range of Soteria UL268 heat, smoke and multi-criteria detectors from Apollo will be launched at Intersec in January 2020. They are for markets that require UL listed systems, including the US, Middle East and Asia. The company has invested heavily in research and development ahead of the new UL standard that comes into force on 29th May 2020. The UL268 7th edition is the new Underwriters Laboratories (UL) smoke detector standard for photoelectric and multi-criteria smoke detectors. The new Soteria UL range replaces the Discovery UL range and is compatible with Discovery and Core Protocol. It comes with a built-in isolator to assist with the detection and correction of faults in fire detection systems. Tests have included sensitivity, directionality, stability, air velocity, temperature, humidity, and corrosion, to name a few. Substantial changes have been made to the new product range, including air flow, smoke chamber size and shape, and sensing technology. Apollo also have variants that are compatible with XP95A protocol. www.apollo-fire.co.uk



GIT

SECURITY

Mobotix 7 –
the next big step in
the intelligent video
technology 'Beyond
Human Vision'

INNER COVER

from page 28



MOBOTIX

MOBOTIX
BeyondHumanVision

INNER COVER STORY

Powerful, Decentralized and Secure

Mobotix Global Partner
Conference 2019:
New Solution
Platform Sets Standards
with Artificial Intelligence
and Deep Learning

The new M73 from
Mobotix: a complete
high-performance
video system with
pre-installed apps

Mobotix is making the next big advance in intelligent video technology, furthering its mission statement of going “Beyond Human Vision”. By launching its new Mobotix 7 open solution platform and the M73 high-end camera that uses it, the company is once again cementing its position as a global leader in this technology.

Supported by artificial intelligence and application solutions based on deep learning, the new generation of video cameras not only enables an unlimited set of functions; it also opens up brand new possibilities far beyond traditional video security. This means that the systems remain fully reliable and secure, as cybersecurity and data security continue to have the highest priority.

The Mobotix 7 system platform and the M73 camera were presented to over 500 international technology and sales partners, as well as representatives of the press, at this year’s Mobotix Global Partner Conference (GPC) in Mainz/Germany, capital of the federal state Rhineland-Palatinate. “The Mobotix 7 is by far our most powerful decentralized and secure modular IoT-video platform based on deep learning modules, and sets new standards for intelligent video technology,” explained Hartmut Sprave, Chief Technology Officer, in his opening speech. “Our hardware and software are ‘Made in Germany’, and tailor-made

camera apps provide limitless possibilities for expanding the Mobotix 7. This will revolutionize numerous IoT processes – not only for us, but for our technology partners and customers in various markets too,” says Sprave.

Mobotix 7: High-Performance Video Solution Platform with Camera Apps for a Wide Range of Vertical Markets

Even at its launch, the Mobotix 7 based M73 camera already comes with 19 pre-installed apps (last updated: November 8, 2019) that are verified and certified by Mobotix and meet the highest standards in terms of cyber security. These apps are supported by artificial intelligence (AI) and deep learning, and cover a significant number of industry-specific, individual requirements. It is also possible for partners, customers or users to develop and program their own solutions and have these certified by Mobotix. “This means that the range is growing dynamically in response to customers’

needs, so virtually any current and future market requirement can be met with a tailor-made application installed directly on a camera featuring the 7 platform,” explained Sprave.

The new video system is also suitable for our customers’ very particular and individual challenges in specific areas: For example, one of the camera apps can detect when a building is in danger of becoming overcrowded. In this case, the camera immediately and automatically triggers a diversion for any further persons wishing to enter the building, thus reliably preventing accidents and panic. By combining image sensors and environmental sensors with AI-based analytics, industrial enterprises can increase their production efficiency and improve fire prevention measures, for example. The object-based recognition of individual road users, such as trucks, cars or people, and their behavior, such as stopping, accelerating and so on, is enabled for traffic and transport applications. The information that is immediately available can im-



Mobotix Management Board: Thomas Lausten (CEO), Klaus Kiener (CFO) and Hartmut Sprave (CTO) set new standards with their new solution platform Mobotix 7

prove the road safety for drivers and passengers, while enabling other road users to continue moving in an unobstructed flow.

"Together with our partners, we aim to develop a multitude of other solutions based on artificial intelligence and deep learning to help predict events and facilitate the early introduction of effective countermeasures aimed at protecting the environment, buildings, systems, people or animals," said Sprave, the Chief Technology Officer.

Partner Expo – Presentation of the Newest Partner Solutions and Technological Alliances

In line with the motto of the GPC 2019 – "Evolution. It Continues With You" – and across a space of more than 200 square meters, 19 technology and solution partners from the Partner Society

Update Mobotix

Mobotix is a leading manufacturer of premium-quality intelligent IP video systems, setting standards for innovative camera technologies and decentralized security solutions with the highest level of cybersecurity. The company was founded in 1999 and is based in Langmeil, state of Rhineland-Palatinate in Germany. It conducts its own research and development, and manufactures its own products with the guarantee of excellence attached to "Made in Germany." Other sales offices are located in New York, Dubai, Sydney, Paris and Madrid. Mobotix products and solutions help customers in industries such as industrial manufacturing, retail, logistics, and healthcare.

were presenting their industry-specific and cross-industry solutions. These solutions cover the fields of industry applications, video management software, IT infrastructure, AI-based video analysis and much more. Together with its Partner Society, the company from Rhineland-Palatinate offers a unique platform and thus facilitate the search for the global partner network by using intelligent components for individual requirements.

Artificial Intelligence and Deep Learning Pave the Way for Smart Video Technologies

In his keynote speech, CEO Thomas Lausten highlighted the fact that camera functions based on artificial intelligence and deep learning are becoming increasingly important: "With Konica Minolta, we have a partner that provides leading technology. We also collaborate with other leading companies and institutions in research when it comes to artificial intelligence." Thanks to the Mobotix system now being more open and the company's collaboration with strategic partners, the video security market is being expanded to include new solutions for a wide range of industries. "By developing and marketing specialized apps, we offer customers around the world access to applications that are perfectly tailored to their requirements. The profit models resulting from this new technology will open up almost unlimited opportunities for us and our partners in the market," predicted Lausten.

"When we unveiled the Mobotix 7 system platform and the once more Onvif-conformant M73 camera, the feedback we received from our technology partners was overwhelming," Lausten was pleased to announce, adding that they expect to make many more innovative developments in intelligent applications that can be marketed



worldwide. "With Mobotix 7, we are launching one of the best IoT platforms for apps on the market. It meets the requirements of a wide variety of industries," says CEO Lausten. "The M73 and all subsequent IoT camera models will have no limits. It goes without saying that protecting our customers' data remains our top priority in all of these endeavors – and as you would expect, the M73 also meets the world's highest cyber security standards."

CONTACT

Mobotix AG

Langmeil

Tel.: +49 6302 9816 0

info@Mobotix.com

www.Mobotix.com

VIDEO MANAGEMENT

Friendly Takeover

Qognify: Seetec and Onssi Successfully Integrated

Qognify made some significant acquisitions in 2018 – through the takeover of Onssi and Seetec. That brought the company into the realms of the leading players in physical security. Qognify operates important development centers in Germany, Israel and the United States as well as Sales and Support offices around the world. GIT SECURITY spoke with Qognify CEO and President Steve Shine and Andreas Beerbaum, Vice President Sales International.



Steve Shine, CEO and president of Qognify



Andreas Beerbaum, Qognify vice president sales international

GIT SECURITY: Andreas, Steve, almost one year has passed since Qognify acquired Seetec and Onssi. What has changed since then, how is the integration of the companies moving forward and what are the main activities?

Steve Shine: It is an exciting time to work at Qognify and I am pleased to report that in just over six months, we have already made excellent progress integrating the three companies – which is not always an easy task, as you can imagine. There are plenty of challenges, the first of which was to establish and communicate a clear positioning for the company with its new portfolio. This has helped our partners and customers to quickly familiarize themselves with the newly expanded organization. We also launched cross-product initiatives in order to benefit from common elements such as mobile and web applications or 3rd party integrations in a much better way. The message is that Qognify is a company dedicated to helping organizations that place a premium on physical security and enterprise incident management, to achieve their desired outcomes. It is encouraging and rewarding to see our talented teams all over the world working together, to make Qognify a trusted advisor for enterprise customers.

A very positive message for all partners and customers relying on Cayuga: the software, which has been very successful in Europe, will become a central component of the Qognify portfolio according to you. Which opportunities and applications do you see for Cayuga in which markets?

Steve Shine: Qognify has a portfolio of solutions capable of meeting the exacting requirements of organizations operating in a wide range of sectors. We analyze the needs of our customers carefully and make recommendations. Our

aim is not to sell a particular product, but to provide every customer with sustainable solutions, generating additional value.

Andreas Beerbaum: Cayuga has a proven track record in EMEA. It is characterized by its convenient rollout capabilities, advanced connectivity and ease of use. Together with BVI, Cayuga provides added value beyond physical security, supporting the business processes of customers. For these reasons, we see enormous global growth potential in retail, logistics, commercial, and transportation environments.

The physical security market is not small, so you see a lot of competition there. What makes you confident that Qognify can stand its ground and diversify into new markets?

Steve Shine: We see ourselves as a global provider of video and enterprise incident management solutions. Our customers understand that physical security and an accompanying strategy is an essential requirement for successfully operating their business. Especially in times of unprecedented threats worldwide such as natural disasters, terrorism or mass shootings, the number of these organizations is growing. We have a strong heritage in the security sector, resulting in a high level of expertise, proven technology and a powerful global organization – this is a very strong foundation to thrive in this industry. If an organization needs cameras at the corners of their buildings, there are probably other vendors that can do this job cheaper – but this is not the market we are addressing.

Let's take a look at your existing partnerships: right after the acquisition, some long-time Seetec customers may have asked themselves what kind of support and assistance they would probably experience

in the future and if there would be new offerings. What is your conclusion after the first few months? What is already going very well and what are you working on?

Andreas Beerbaum: After reviewing our portfolio of services and asking our customers and partners, we came to the conclusion that there are two key areas where we can create major benefits for them. The first is global 24/7 hotline support across all products. The other is an extension of our after-sales service to improve how we share our expertise with customers and partners. As such, we are in the process of establishing a new services organization within Qognify.

One of your latest products is the new web-based "Umbrella" administration platform. Umbrella is designed to enable your customers to make significant cost savings by centrally managing large distributed video surveillance systems in the cloud. How is this platform getting started, and what's next?

Andreas Beerbaum: We designed Umbrella to enable our large Cayuga VMS customers to manage their systems in a more holistic way. We wanted to prevent them from over-spending on technical expertise and unnecessary licenses, as well as reducing the chances of exposing themselves to regulatory risk. Also, in recognition that physical security software is increasingly moving to the cloud, we developed the product based on web technology. Now our customers have the freedom to run it on platforms like Microsoft Azure and AWS, or can choose to install it on-premise within their own infrastructure. When Umbrella was launched in May it attracted a great deal of attention. Some enterprise customers, for instance in the retail industry, have already deployed the platform in environments that typically contain thousands of cameras. They are using Umbrella to simplify the configuration and management of their systems, as well as to monitor their health status. Looking forward, we are working on a central license management component and a module to support live operations.

Finally, a look into the crystal ball: what do you think will be tomorrow's big trends when it comes to VMS, video analytics and incident management?

Steve Shine: When it comes to VMS, we see that the size of systems is still constantly growing, which presents mounting challenges to the organizations operating them. As such, an efficient way to monitor and manage vast systems centrally becomes more and more important. In addition, the concepts of enhanced situational awareness and incident management integrating with video technology is a strong trend, replacing the traditional approach of reacting to events based on a static plan of procedures buried somewhere within a binder on a dusty shelf. It is enabling organizations to significantly reduce response times by providing an immersive experience of the situation and then guiding the operator through the resolution process. Video analytics can contribute to this, especially as there have been enormous advances in the development of AI-based technologies.

CONTACT

Qognify GmbH

Bruchsal, Germany

Tel.: +49 7251 9290 0

info.emea@qognify.com

www.qognify.com

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VIDEO MANAGEMENT

The Chosen Few

Peel L&P Select Their Security Equipment Suppliers for Future Developments

Part of the Peel Group, Peel L&P is responsible for some of the most transformational development projects in the UK. It has been working closely with an independent security consultant, Advanced Security Partners Ltd (ASP), undertaking risk assessments, technical product evaluation and a detailed design, which can be implemented across its portfolio, standardizing equipment to ensure future consistency and compatibility.



Own and managing 12 million sq. ft. of property and 20,000 acres of land and water, Peel L&P's holdings are concentrated in the north west of England, but it also owns and manages significant assets throughout the UK, with a total portfolio value of £2.6 billion. Tony Chebrika, Head of Security for Peel L&P and Richard Sumner, Director for ASP, have evaluated product sets within the marketplace, choosing Wavestore's Video Management Software (VMS), Axis network cameras, Salto access control and Eaton fire detection to be at the heart of the integrated electronic security systems deployed across its entire estate, as part of its vision for the future.

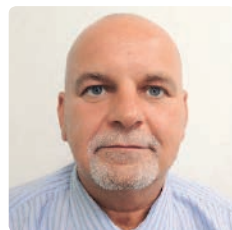
"Peel L&P's vision is to create sustainable environments where people and businesses can flourish," said Tony Chebrika, Head of Security for Peel L&P. "I am determined this vision of sustainability is applied to everything we do from a security perspective. Our strategy is to work with security solutions that offer true added value and are future-proof in their ability to interact with emerging technologies that we may wish to utilize in the future to further enhance our security and operations."

Multiple projects

Peel L&P has already rolled out several projects, including at Media City UK where the security solution helps keep workers and visitors safe across the prestigious 200-acre mixed-use development on the banks of the Manchester Ship Canal. The development is a joint venture with Legal and General Capital and is home to BBC North, ITV, the University of Salford, dock10 and innovation hub The Landing, as well as a number of blue-chip companies including Ericsson, Kellogg's and The Hut Group. It

is also host to over 250 smaller creative and tech businesses. Projects have also been rolled out at Liverpool Waters, a 500-acre scheme to transform Liverpool's northern dockland, which is one of the UK's most significant regeneration schemes.

In addition to its prime purpose of monitoring any suspicious activity and post-event interrogation should there be an incident, the integrated



” Work with security solutions that offer true added value and are future-proof

Tony Chebrika, Head of Security for Peel L&P

security solution is also contributing to operational efficiency in a variety of ways, including the management of car parking areas and assisting receptionists to visually verify the identity of visitors.

Supplier Evaluation

"Before deciding which brands to work with long term, we carefully considered what was on offer from a host of vendors across the market," said Richard Sumner, Director of Advanced Security Partners, the consultants working closely with Tony Chebrika to ensure best practice is utilized in the design and implementation of the group's electronic security systems. "In addition to carrying out stringent tests in varying environments and under different lighting conditions, we also evaluated each potential supplier by taking into account a number of factors over and above functionality. We wanted to work with products that could deliver long term

reliability as well as immediate ROI. Our conclusion was that Axis, Eaton, Salto and Wavestore should form the core of the brands used to form a complete solution across the Peel Group estate".

"One of the key reasons we chose Wavestore as our preferred VMS is that its open platform offers us the flexibility, now or at any time in the future, to bring together third-party devices and sub-

systems from different manufacturers including, for example, the latest generation of hemispheric 360° cameras onto a common, future-proof and easy to operate platform. This was extremely important to us to ensure that we can benefit from the very latest technology as it is introduced."

Following on from the success of the Media City UK and Liverpool Waters projects, Peel L&P has declared its intention to deploy the same combination of safety and security products on all new development projects. It will also be installed as part of any ongoing upgrade program to replace existing legacy security systems.

CONTACT

Wavestore

Uxbridge, UK

Tel: +44 1895 527 127

www.wavestore.com



✓ VEHICLE TYPE: CAR

✓ VEHICLE COLOR: RED

Vehicle Characteristics

Vehicle Type

Car Truck Bus Motorcycle Bicycle

Vehicle Color

Red Brown Orange Yellow Green

Blue Gray White Black

Video Search Made Simple Find What You're Looking For Faster



Avigilon Appearance Search™ technology sorts through hours of video with ease to help quickly locate a specific person or vehicle of interest, reducing hours of work to minutes so that you can respond faster and easily compile evidence.



Search Across Multiple Sites

Initiate a search for a person, vehicle or object of interest across one site, then continue the search for the same subject of interest by seamlessly transitioning to another site that uses the same version of Avigilon Control Center (ACC) video management software.



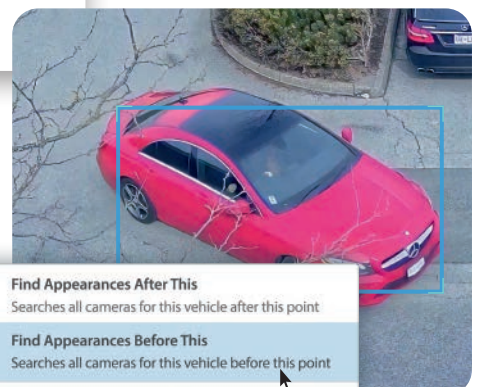
Search with Physical Descriptions

Find a vehicle or person by selecting certain specific physical descriptions, including vehicle type and color, clothing color, gender and age.



Integrated Solution

Works with ACC™, Avigilon cameras with self-learning video analytics and select Avigilon Network Video Recorders.



avigilon.com/appearance-search | asksales@avigilon.com

VIDEO MANAGEMENT

Face Recognition Too

A Video Management System With Comprehensive Search Functions

With the launch of the "Video Management System powered by C-Werk", Grundig Security has brought a software and hardware solution for video security systems into its portfolio that has been conceived for almost all areas of application. Above all, its user-friendliness and simplicity of use as well as advanced search functions such as time-lapse and face recognition were high on the list during development.



Video security: The soft- and hardware solution C-Werk from Grundig Security

The C-Werk platform of the video management systems from Grundig is logical, systematically constructed and optimized for the user. It is completely scalable, modular, and comes with an open system architecture. The transparent licensing model permits individual solutions – the customer only pays for things that they really need; that's the manufacturer's concept.

The VMS is based on an integrated concept with a uniform software solution: from the free version for IP cameras and network recorders up to the comprehensive video management solution for extensive and complex video systems.

Made for Everyday Use

When an event takes place, it's all about quickly finding the relevant images. But searching through large amounts of video material is often time-consuming. And this is where

this manufacturer's system makes a start: the user should be able to quickly see the event and to initiate an appropriate reaction – and this should be as easy as possible for employees to achieve. So for example, repeated similar searches can be saved and called up at the touch of a button.

Search Functions

The system provides various search functions such as time lapse and face recognition. These can also be applied to external files, for example on .AVI files from other recording systems.

Using the "Time Lapse" tool, the user can display all movement events within a predefined space of time – and neatly compiled into a single video file. This significantly reduces the effort required to find a particular scene. The "Face Recognition" function enables faces to be quickly

found and identified. The face found can be compared to a photo and a response automatically initiated. This also functions over multiple cameras and recording sequences.

License Model

The manufacturer provides two licensing schemes – Pro and Premium. Also, different streams from one camera can be used for recording and display. This enables the data rate to be significantly reduced for multiple displays. The memory management can control the storage location and define the recording parameters of various connected cameras, also for different events. The hard disk is efficiently used by a special file system that saves disk space and increases data security. The modular structure and distributed architecture enable flexible design of the video system and, in particular, ensure high reliability.

Webcast: Video Management System C plant from Grundig in use on the Airport – the short webcast shows the event search with the time-lapse function



CONTACT

Abetechs (Grundig Security)

Erkrath, Germany

Tel.: +49 211 538 0680

info@grundig-security.com

www.grundig-security.com

VIDEO MANAGEMENT

Beat The Bad Guys

The Latest VMS Release from Qognify Aims to Combat Cyber Security



Seetec's Cayuga R14 video management system (VMS) places a major focus on cyber security

Qognify has announced the latest release of its Seetec Cayuga R14 video management system (VMS), which places a major focus on cyber security. Almost one-third of companies worldwide admit that they have been the target of an attack on their business-related IT infrastructure. So with the rise of IP solutions for video surveillance systems in recent years, dealing with cybersecurity issues to safeguard video installations has become a task of the utmost importance.

One of the best ways to reduce network vulnerabilities associated with video surveillance systems is to make sure that the communication between the different components of the video solution is securely encrypted. Comprehensive role-based access management must also be in place in order to elevate the level of protection, while meeting the compliance requirements of mission-critical environments.

Cayuga Release 14 focuses on doing just that: the security architecture of the VMS has been revamped to make sure that internal communication is even safer than before. State-of-the-art encryption is used for the export of videos so that they can only be accessed by authorized people. Fundamental Active Directory (AD) optimizations make sure that the login procedure for Cayuga and the

administration of AD roles are now fully aligned with industry standards. As Single Sign On is now fully supported, there is no need to explicitly sign in to the Cayuga application once the Windows login has been successful.

Broad Device Integration

Aside from all the security improvements, Cayuga now offers the option to start the standard client in Viewer mode. This way the user benefits from most of the standard features in the client – even without a connection to the Cayuga server. The new offline Client is also available in a light-weight portable version to be distributed with exported video files. Furthermore, Cayuga now supports more than 5,000 different devices from more than 80 different hardware manufacturers. New camera

functions have also been introduced into its smart drivers, giving customers even more choice when selecting the right hardware for a video security application. Cayuga R14 is available now to current customers with a valid Software Maintenance Agreement (SMA) who can download and install the update manually or, if updated from an installed base, via the built-in Auto Updater.

CONTACT

Qognify GmbH

Bruchsal, Germany

Tel.: +49 7251 92900

info.ememail@qognify.com

www.seetec-video.com



AIRPORTS

Enabled By Metadata

Digital Airports: Control Rooms of The Future Need Rich Data Streams

Airports have always been at the cutting edge of security camera technology. As highly complex security environments, airports demand seamless monitoring of large areas with tremendous passenger throughput, supplemented by extra rigid surveillance of high-security or off-limit zones. Meeting these demands, airport security control rooms have undergone a massive shift from analog to IP-based security cameras over the past decade. This new generation of digital cameras offers better image quality and benefits, like less cabling. As a result, IP-based cameras have now become the benchmark for comprehensive security at airports the world over.

But the next evolution is already on the horizon, as control rooms advance from IP to a data-driven approach. The reason why? Because image quality alone is not the answer to the challenges facing modern airport control rooms in terms of safety and security, as well as airports as a whole in terms of operational efficiency.

Airport Security on a New Scale

What exactly are these challenges? Ultimately, future demands on airport operators revolve around one single crucial factor: scale. Airports need to accommodate larger passenger volumes, as the number of air travelers per year is expected to skyrocket from 3.8 billion in 2016 to a staggering 7.2 billion passengers by 2035, according to the International Air Transport Association (IATA). At the same time, existing airports are expanding by adding new terminals, while newly constructed airports are mega-facilities on an unprecedented scale: The new Beijing Daxing International Airport is the world's largest single-terminal airport at a size of 1.4 million square meters – twice as large as London Heathrow – and expected to process over 100 million passengers per year.

The number of security cameras required to safeguard airports of this size can easily reach over 10,000 installed devices. But with several thousand digital cameras installed, security opera-

As airport security responds to digital transformation and increasing passenger volumes, security cameras are evolving from 'image providers' to 'data sensors'. Maarten Wings, global vertical manager airports at Bosch Security Systems, considers this development and how camera technology is transitioning to provide intelligent support to higher-ranked systems.

tors are overwhelmed by hundreds of video feeds on their screens. And it's no secret that after 20 minutes the average operator misses 90 percent of important scenes. This is exactly where the industry's previous focus on increasing the image quality from IP-based video cameras is reaching its limits. More resolution, more HD, and higher bandwidth will not guarantee more secure airport environments when security personnel is overwhelmed by making sense of all this image data. Plus, the new scale of air travel poses challenges beyond just security.

The Bigger Picture

With more people traveling by plane each year, many airports are reaching the limits of their operational capacity. A single glitch in the computer system can leave thousands of travelers stranded for days, as happened in 2017 when over 20,000 passengers were grounded for three days due to an airline computer system outage.

From the perspective of airport operators, the only way forward is to increase operational efficiency and improve passenger experiences. Airports need to avoid congestion across terminals and ensure the optimal flow of passengers. Adding to the pressure, airlines are asking for lower turnaround times at the gates and shorter waiting times at security checkpoints – or they will move their business elsewhere.

On the back end, this focus on efficiency requires operators to make strategic decisions: for instance, when to increase staffing to meet higher passenger volumes at peak times and how to clear up bottlenecks in passenger flow. And, looking ahead, the ongoing process of digital transformation will require airports to adapt to new technological standards – for instance, the legislation on storage of video data – without disrupting operations.

Shifting the Focus

As an answer to these challenges, airports need to go digital. They need to shift the focus to becoming data-driven operations, both in terms of security and safety as well as operations. Realistically, this mind-change has to start in the security control room as the central hub where all data streams converge. As more data from larger airport terminals and more camera streams into the control room, operators need help in making the most of this intelligence. Here’s where using neural networks and machine learning to turn data from ‘smart’ cameras into actionable intelligence comes in.

Already deployed in major airport installations around the world, cameras with built-in intelligent video analytics add sense and structure by adding a layer of metadata to video images. Processed ‘at the edge’ to reduce network computing loads, video analytics actively support operators on three major levels.

For security: breaches, loitering attempts and perimeter incidents can be automatically detected by video analytics to automatically alert operators and dispatch security teams for on-site investigation. For safety: there should be automatic alerts for fires, unsafe behavior, over-crowding of spaces, speeding incidents in garages, and blocked exits. These alerts can be configured to trigger pre-recorded messages over the public address system, such as “Secure area! Please turn back and leave immediately” to resolve situations automatically.



The average security operator manages over 200 cameras at the same time: helping to add relevance and perspective to all this video data, Bosch video security cameras add rich metadata to automatically understand what is captured

For operations: ‘smart’ cameras can collect rich data in the field to detect congestion, measure occupancy rates and track processing times at gates as the foundation for optimization efforts.

In order to take advantage of these benefits, security operators need to accept that the future lies with the data, not in raw video images. It is metadata, combined with video feeds via task-related web widgets that will allow operators to address the new demands on security and operations facing modern-day airports.

Control Rooms of the Future

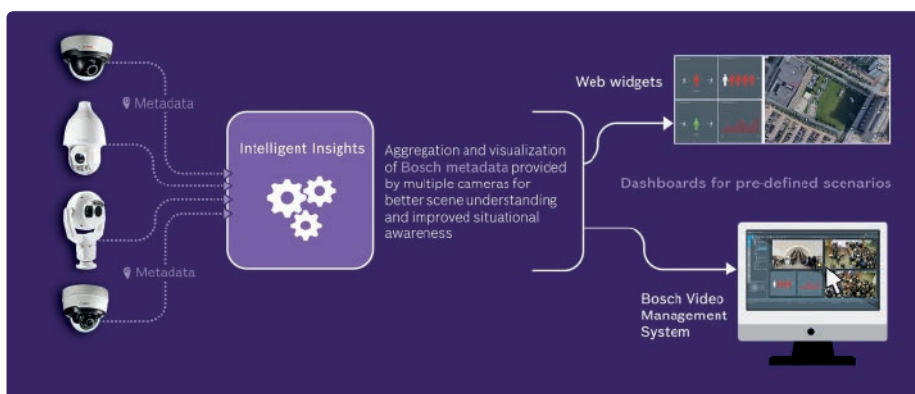
Most of all, this shift happens in the security control room, from where it will reach all parts of the airport organization. Drawing on rich data streams from field sensors, tomorrow’s ‘smart’ control rooms will be able to automate security and safety processes to relieve the operators. And they can also leverage data-driven insights beyond the security realm to make informed decisions on how to optimize operational efficiency for air travel on a new scale. Speaking of informed decisions, now is the time for operators to ensure that control rooms are connected to the necessary data streams. This starts with selecting the next camera system: Will

the decision be based on image quality – or data performance?

Choosing data performance over image quality will future-proof your organization for what comes next in digital transformation. Instead of reacting to existing situations, metadata will empower airports to take a more proactive approach. On the strength of targeted first-hand data, they can finally understand why certain areas of the terminal become overcrowded or when additional staff are needed to ensure a smooth process during peak times. Looking ahead, intelligent insights driven by video analytics will even allow operators to prevent security incidents altogether. Drawing on insights gained from collected data – like when and how disruptions occur – they can take precautionary measures and eliminate threats before they become active scenarios.

What our industry needs to make it happen is a mind shift from considering a security camera as an image source to seeing it as a data sensor: a shift from IP to data. The data will carry you into the future of digital transformation. The image will not.

Looking ahead, only the best-performing data source is the most future-proof investment



Is Your Video Security System Ready for a Data Shootout?

For the last ten years, it’s been standard practice for airport security managers to test the image quality of digital cameras in camera shootouts under realistic conditions. But with the paradigm shift from IP to data, we need a data shootout to see which camera delivers the most relevant metadata. Because looking ahead, only the best-performing data source is the most future-proof investment.

CONTACT

Bosch Building Technologies

Grasbrunn, Germany

www.boschbuildingtechnologies.com

VIDEO SURVEILLANCE

Fewer Cameras for More Security

Dallmeier Publishes Multi-Media Information About its Panomera W Camera Series

Dallmeier has prepared a comprehensive information package for its recently unveiled Panomera W-series.

The concept is explained with the help of a comprehensive solution and benefits compendium and an explanatory video.



Dallmeier electronic has released an extensive information package to inform its customers and the interested public in still greater detail about the added value of the 180 and 360-degree versions of the Panomera W series. This includes a product video, which demonstrates how even expansive areas can be safeguarded through the function of a 360° view with distortion correction while minimizing the total cost of ownership. The product brochure explains the advantages of the design, functionality, material quality, operating concept and the integrated time-saving 'Mountera' mounting system in full detail. The manufacturer also provides references to already published press releases and the product data sheets.

The patented Panomera Multifocal Sensor System is a camera technology, specifically developed for the extensive video surveillance of large scale areas. Enormous expanses and areas are captured in a new quality of resolution in real time, which results in significantly lower infrastructure requirements. Where previously several megapixel cameras would have been necessary, a single Panomera system is now sufficient.

Hemisphere

The 360° sensor system has been designed with a focus on securing large exterior and interior areas from a single location. The innovative combination of high-resolution sensors offers an outstanding dynamic range of 130 dB UWDR effectively and allows the recording of a complete half-space (half-sphere) in real time. This offers a resolution

of more than 125 px/m up to a distance of 17 m, making it possible to recognize people on an area of 929 m². The observation with 62 px/m is even supported on an area of 3,778 m², which corresponds to more than half a football field.

The innovative lens sensor concept of the system is based on precisely measured and pre-focused lenses that are optimally matched to the extremely high-resolution image sensors. The individual lens sensor units are automatically calibrated over the network using the system's auto-calibration software.

AI-supported Analytics

The optional Video Content Analysis (VCA) detects movements and objects in the uncompressed image and analyzes them in real-time (depending on the analysis resolution) with highly-developed analysis functions such as Intrusion Detection or Line Crossing. The detected events can be used to trigger the recording of a Smavia recording system. Together with the detected objects and the corresponding metadata, they are stored in a database. This allows targeted search and evaluation of the recordings by the Smavia Viewing Client with the Smartfinder function.

The latest variants of the multifocal sensor system are equipped with encoder technology that enables Video Content Analysis supported by Artificial Intelligence functions based on neural networks in the camera. This provides a significantly more powerful object classification. After a short training phase, the system then offers even more targeted evaluation of the recordings and more ef-

fective use of automatic functions such as lossless and multiple auto tracking.

Permanent Capturing

The multifocal sensor system captures and stores all areas of the object space in maximum detail resolution. It does not matter whether the operators in live mode concentrate on a certain area (multiple detail zoom) or whether interesting areas are displayed in detail on the basis of video content analysis (multiple auto tracking). The Panomera recordings always contain the entire action, which enables later analysis of each incident.

Dewarped Display

The sophisticated image processing algorithms of the Panomera 360° multifocal sensor system deliver a geometrically correct and almost undistorted display of the monitoring area (linearly scaled in both horizontal and vertical directions). This provides the operator with completely integrated object tracking on the monitor as well as an overview for the evaluation of the finest details, even at long distances.

Product Video & Brochure Download

www.dallmeier.com/panomera-w

CONTACT

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www.dallmeier.com

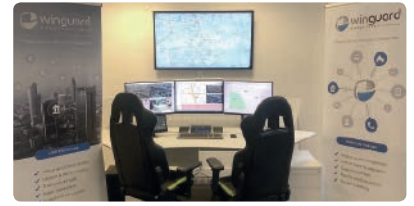
License Plate Recognition Cameras

Grundig license plate capture cameras are specialized CCTV cameras that have built-in software to help identify and record license plates on still or moving vehicles. The cameras support a white list and an output relay, and can be used as a standalone solution to open gates or barriers. Used together with Grundig NVR and VMS, the cameras are perfectly integrated to manage car entrances and exits. Two 2MP bullet models are available, with a motorized zoom lens focal length of either 2.8–12mm or 8–32mm so they can be used near a barrier or set for long distance recognition of car number plates. Intelligent traffic modes built into the cameras compensate for speed, weather and headlight issues, which can all make it challenging to capture a usable video that identifies license plates. www.grundig-security.com



Control Center Demonstration Facility

Advancis UK has opened a new showroom at Beaufort Court in Canary Wharf, London. Located in the heart of the financial district, the showroom is equipped with a control center desk as well as a four screen setup for an optimal demonstration of the vendor-neutral Winguard integration platform. A meeting area is available too. Canary Wharf is one of the main financial centers of the United Kingdom. The location was chosen as it offers easy access from London City Airport as well as excellent road and train links. The showroom is open from Monday to Friday by appointment. To arrange a meeting, please contact Andrew Pasqualin by e-mail: andrew.pasqualin@advancis.net. www.advancis.net



Simple, Scalable and Always Available Access Management




With the introduction of its Access Management System 2.0, Bosch has addressed the need for today's access systems to be easy to set up and use, easily scalable and able to integrate with video and intrusion systems. The software comes in three pre-configured software bundles called Lite (max. 144 doors and 200,000 cards), Plus (max. 512 doors and 200,000 cards) and Professional (max. 10,000 doors and 200,000 cards). Existing floor maps can be imported and icons are dragged and dropped on the map to represent controllers, doors and building objects. The GUI is dark to reduce eye-strain and fatigue. Up to 15 configurable threat levels such as lockdown, controlled lockdown or evacuation mean that safety measures can be initiated quickly in critical situations. The database and communication between server and access controllers is encrypted at all stages by the secure Open Supervised Device v2 Protocol (OSDP). www.boschbuildingtechnologies.com

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PERIMETER PROTECTION

Exterior Surveillance of Logistics Centers

All-in-One Solution with PoE and IP-supported Network Interface Boxes

Perimeter protection: A Slat Synaps PoE 3E P2 with a 2-port Ethernet switch and fiber-optic media converter is supplying and buffering Axis fixed bullet cameras here

In January 2019, the storage halls of the largest logistics facility in France were opened. A chain of furniture shops has built its warehouse in XXL format in Tournan-en-Brie in the département of Seine et Marne, to the east of the capital Paris. The company, whose furniture shops can be found in various European countries, counts among the largest of this type in Europe. Here is an article from Frauke Petzold, Marketing and Communication Manager at Slat GmbH.

With an area of 200,000m² on 33ha of land (800m long and 250m wide), the center is as large as 28 football fields. The planners and investors are particularly proud of the "Very good" accreditation by Breeam, a British sustainability certificate (British Research Establishment Environmental Assessment Method). The certificate takes into account the whole lifetime of a building. With a warehouse capacity of 270,000 palettes, the center will cover the total logistics needs of the company's furniture stores and also the

e-commerce division in northern France, and simultaneously optimize the delivery times.

Danger Recognition, Surveillance of the Unloading Zone, Perimeter Protection

A logistics project of this scale requires a comprehensive security concept. In this case, the surveillance of the perimeter fence, the access roads, the truck unloading





Danger recognition: A Slat Synaps 24V 3E IP with a built-in 60W high PoE injector and a fiber-optic media converter supplying and buffering moveable Axis dome infra-red cameras

ramps and reliable danger detection played a prime role. Cameras would be fixed on the already existing lighting masts at regular intervals and at all strategically important points. But to be absolutely sure and to cope with power failure as well as short power interruptions, the customer demanded a 15 minute long power backup of the camera systems that would ensure continuity of the video recording.

Solutions

For the uninterrupted surveillance of the truck unloading areas and the perimeter security of the extensive open area, the choice made by the installers was a PoE fixed bullet camera from Axis, which would be supplied and supported by a Slat Synaps PoE 3E-P2 solution. The Synaps Outdoor box (IP65/IK10) with a factory-installed and integrated micro DC-USV (LiFePO4 battery technology/ten year life), an uninterruptible 2-port Ethernet switch and secure web server connection (SNMP V1&V3, HTTPS, BACnet IP) provided enough space to include a fiber-optic media converter to bridge longer distances.

And for the systems that would provide certain recognition of dangerous situations to avoid false alarms with expensive consequences, moveable, dome infrared cameras from Axis were installed. In this case, the Synaps 24V 3E IP with an additional 60W high PoE injector and fiber-optic media converter integrated by the manufacturer was ideal for the supply and security solution. This all ensures the continuity of the remote-controlled video recordings to capture serious and potentially dangerous situations in real time. The subsequent installation of the Synaps boxes on the lighting masts was quick and without problems, thanks to their compact dimensions (200x300x150mm) and the manufacturer-supplied mounting and anti-vandal accessories.

Completely CE Certified

More than 100 outdoor network interface boxes of the Synaps range by Slat were installed, distributed over the entire premises, together with dome infrared and fixed bullet cameras from Axis. For the installer, the Synaps solution was ideal because it could easily meet the customer's minimum required sustained time period, and they saved a lot of time by not having to find and fit the individual components themselves. Slat provided a security package that not only included a high-quality, tailored and all-in-one network interface box, but was also completely CE-certified. This represented real added value for the installer as he could deliver a quality solution and still use his time for other profitable projects.

CONTACT

Slat

Lyon, France

Tel.: +33 4 7866 6363

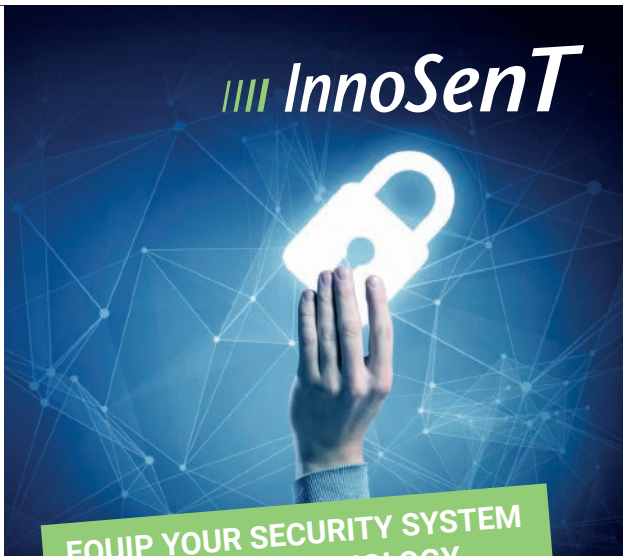
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VIDEO SURVEILLANCE

Sports Streaming

Enhancing the Thrill of Motor Racing Using CCTV Cameras for Streaming

Central to the Italian motor racing scene, Gruppo Peroni Race organizes very high level car championships in the Imola, Vallelunga and Monza Italian racing circuits. For thirty years in the sector, the activity of the Peroni Race Group includes various championships and numerous special events, such as endurance tests. When they wanted to open up the racing experience to more members of the public, they turned to a solution using Hikvision products.

The company decided to make its free events more accessible to the public and asked DirectE20, its historical partner in the audio-video industry, to come up with a solution to broadcast the live video-chronicle on Youtube, Facebook and other social events. They worked in close collaboration with Italtel, a distributor of professional security solutions specialized in planning and technical assistance. In order for viewers to be able to experience the sheer thrill of the race, they needed cameras that could follow the high speed action. And due to the unpredictability of weather, the solution needed to provide great images even in adverse weather conditions and other poor light situations.

Italtel chose to design the solution using Hikvision products, and in particular the Speed Dome Solution 2 and 4 MP and the 96XX and 77XX series recorders, together with monitors and a keyboard to control the cameras. They chose Hikvision for the high performance of its PTZ products, able to obtain extremely interesting rapid-focus and



Hikvision cameras broadcast high quality images of cars racing at high speed

self-tracking. Video management was entrusted to iVMS 4200, the free Hikvision software.

Fast Action

All of these products were brought together in a mobile control room which could broadcast high quality images able to follow cars racing at high speed. The flexibility of the system and the adjustable nature of the cameras meant that they could respond immediately to the action, both automatically and on command from the control room. In order to maximize the viewer experience, during the installation of the products installers had to pay particular attention to camera positioning. It was essential to capture the images of the vehicles in the approach to curves with different viewing angles, both on arrival at and departure from the circuit curve.

Alessandro Rossi, Sales Manager of Italtec, says: "We chose Hikvision for its high-tech video surveillance. Analyzing the professional CCTV market, we received lots of positive feedback from those who have been using the brand for years. So we decided to carry out tests, following which we definitively decided to go with Hikvision."

All Sports

Gruppo Peroni was also impressed. Sergio Peroni, the organization's President, says: "Thanks to the work carried out by DirectE20 that created the mobile technology solution, today we can collect high quality video material that perfectly meets the needs of our audience. Enthusiasts can follow live racing competitions on the circuits and the material collected and filed can also be used later to make videos for advertising or repertoire purposes. We are very satisfied with the technical choices made and, above all, the results obtained." Hikvision products delivered a result in the form of an innovative system for audio and video distribution of motor racing at its best, thanks to its simplicity and flexibility. This solution could be used to stream all kinds of sports events in the future.



CONTACT

Hikvision Europe

Hoofddorp, The Netherlands
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VIDEO SURVEILLANCE

Far Out, Man

Fujifilm's Integrated Product for Long-distance Video Surveillance

Fujifilm recently showed its innovative SX800 camera system for long range surveillance at the Milipol 2019 homeland security event in Paris. It features two integrated high-performance components: a Full-HD camera and a stabilized 40x zoom lens. This innovation is the result of years of experience in digital cameras and a dedication to the highest optical quality.

Thanks to its powerful 1/1.8" image sensor, a broad focal length range of 20mm to 800mm and state-of-the-art image processing technology, the Fujinon SX800 is ideally suited for demanding long-range surveillance applications to protect critical infrastructure and transportation networks, including airports, harbors, highways and borders. The powerful combined optical and electronic image stabilization mechanism provides angle correction of up to ± 0.22 degrees and provides consistently sharp images – even of objects several kilometers away. The integrated high-speed autofocus provides a sharply focused image in less than a second.

Integration With PTZ Units

The SX800 in combination with a pan tilt head results in the greatest possible benefit and maxi-

mum safety for the user. The ONVIF-compatible SX800 camera system can be integrated into PTZ units to provide accurate long-range surveillance which is particularly useful in the applications mentioned above as well as for keeping an eye on the environment or for aerial surveillance. Building the SX800 camera into the robust and precise positioning unit is simple and fast, resulting in a flexible PTZ camera system.

Stable at a Distance

The built-in SX800 camera lens is complemented by a 1.25x digital zoom to achieve long-range surveillance equivalent to 1000mm focal length. The Fujifilm SX800 camera has an integrated lens system, thereby avoiding focussing problems during setup and maintenance. While the built-in image stabiliser accurately compensates for camera

movement, typically caused by gusts of wind or structure vibrations, the system is particularly effective when shooting in the ultra-telephoto range, which is susceptible to even the smallest movement. With a highly sensitive sensor and advanced noise reduction, the SX800 can shoot clear footage with minimal noise even in low-light conditions. A de-fog function brings vivid clarity to hazy images caused by light diffusion due to mist and dust.

CONTACT

Fujifilm Optical Devices Europe

Kleve, Germany

Tel.: +49 2821 7115 400

www.fujifilm.eu/sx800

Centralized Electronic Access Control for a School

Smartair wireless online access management has proven a simple, school-wide electronic solution for greater control and security at Westbridge School. Each staff member now carries one RFID credential card, programmed with access rights personalized to their individual role. In an emergency, the school can institute a complete lockdown via the centralized system. "Having a Smartair system in place has given us peace of mind – it's quicker, it's safer and it's simple," says Joanna Brunton, executive officer. The school's teaching, administration and residential buildings require multiple layers of access control, for both staff and students. The inflexibility of a legacy mechanical locking system had presented facility management and pupil safety challenges for years. "With over 50 staff, we needed more subtlety in assigning access permissions, which you simply can't do with a bundle of metal keys," explained Joanna. The intuitive system software can open or secure individual zones, connecting to individual locks via a network of 9 hubs. The door devices are wireless and battery operated and, because there's no need to run cabling to individual doors, installation was fast and cost-efficient.



www.assaabloy.com

South East Asia Office in Singapore

Perimeter Protection Germany (PPG), best-known for their vehicle barriers, bollards and gates, and pedestrian turnstiles and security gates, have expanded their reach into the South East Asia region by opening up an office in the German Center in Singapore. The aim and purpose of this decision was to be closer to the company's partners in this huge part of the world, and to have even more regular face-to-face meetings in a professional environment. The company looks forward to this exciting new step ahead and to expand its business in the region even further.

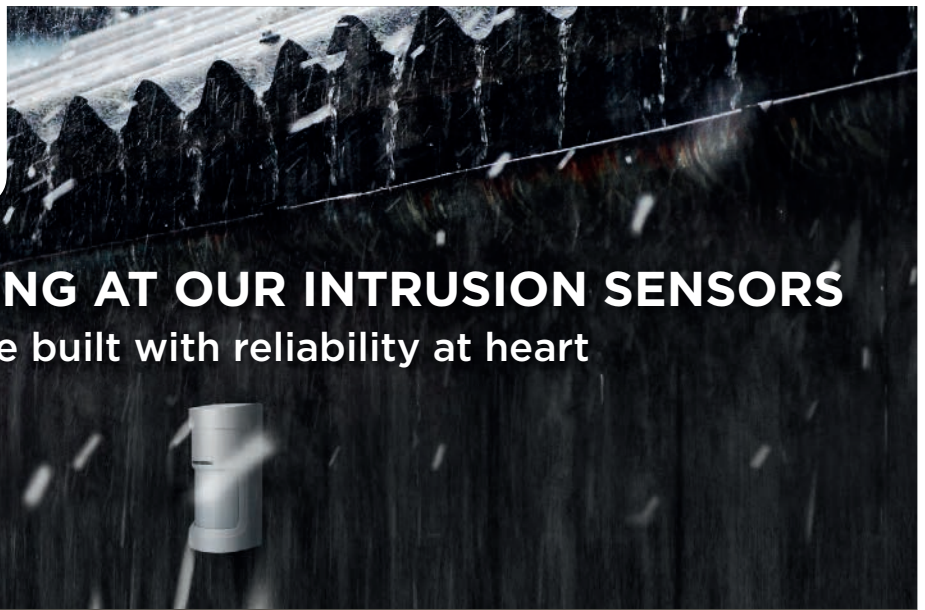


www.perimeterprotection.net

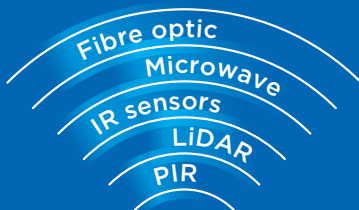
Making Things Easier – Dallmeier Launches New Website

Dallmeier Electronic, the German video information technology manufacturer, has completely reworked the content of its website to provide intuitive navigation and a clear design language that reflects the new corporate design. This revamp follows in tandem with the introduction of the new Panomera W series of cameras. The web presence particularly addresses the requirements not only of end customers in the company's various core markets, but also of partners and installers, and the transformation of the company from a camera manufacturer to a provider of integrated solutions is now evident in its Internet presence. The simple navigation concentrates on the company's core competences of economical industry solutions, innovative, radical technologies, and comprehensive services. Customers can navigate the new web presence rapidly by recognizing solution advantages specifically for their industry and finding concise explanations of the associated technologies.

www.dallmeier.com



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NEAR-RANGE DETECTION

Around the Building

Radar for Home and Small Business Security

The fear of break-ins rises along with the need to protect precious belongings. Media reports on burglars or thieves in the area add to the unease. The feeling of security is shaken.

Victims of break-ins not only complain about property damage but also struggle with psychological repercussions. This boosts the demand for security measures. The rising expenditures for security equipment reflects this development¹ (source: Statista.de). But not every security measure is effective. Particularly in the small business and private areas, generally the simplest and most affordable technologies are used, such as motion sensors² (source: Statista.de). These generally offer little leeway in terms of adaptation and deliver only moderate performance. This results in false alarms.

While the industry and military already have very advanced security solutions at their disposal, it takes much longer before such state-of-the-art products are available to small businesses and households. But there is demand for improved security products to equip apartments, houses, or companies. User requirements are on the rise. This puts the security equipment manufacturers under pressure.

Surveillance of the Nearby Surroundings

For private households and small companies, products for near-range surveillance are of particular relevance. The simplest solutions are detectors that activate the exterior lighting or alarm signals when persons or objects are detected. They operate using different sensors. The dominant technologies are currently passive infrared (PIR) and radar. Infrared sensors recognise the differences between

body and ambient temperatures, checking them continuously, thereby determining changes in position. Radar sensors, on the other hand, detect the movement of persons by continuously emitting and receiving electromagnetic waves.

These sensors are integrated into motion and presence detectors, alarm systems, and invisible sensor barriers, and they enable automatic, contactless control both indoors and outdoors. They monitor the building environment, in particular dark or unclear areas, as well as entries, fences, driveways, doors, gates, and windows.

Requirements for Near-range Detection

One of the greatest challenges is to individually adapt the security solutions to the existing buildings and premises. The structures are close to road traffic, surrounded by densely planted gardens, or in direct proximity to other buildings or parking lots.

Irrelevant areas, such as the neighbour's garden, are – to the greatest extent possible – not meant to be covered. Clear demarcation of the coverage range plays a key role here in terms of efficiency. Permanent and temporary on-site interference factors, such as the weather, objects, or animals, must be taken into account. In addition to functionality requirements, sensors should also be as small, reliable, precise, and easy to integrate as possible. In other words, maximum technology installed in a small sensor. An ever-increasing number of tasks are to be implemented with a single

device. However, these demands overwhelm many of the available products.

Standstill for Motion Detectors

There have been no revolutionary improvements made to established sensor systems for quite some time. It almost seems as though there is no further potential for development. As if homeowners and businesspeople should just have to make do with current products. And simply opt between radar and PIR, depending on the desired application.

After all, each technology has different benefits and disadvantages. Infrared sensors, for example, run into problems with heat-insulated clothing or the use of floor heating. Most radar solutions, however, require precise positioning and do not detect people standing in place. Further technical advancements for security solutions in the home area and companies have long been a long time coming. Where's the progress in the field of near-range detection?

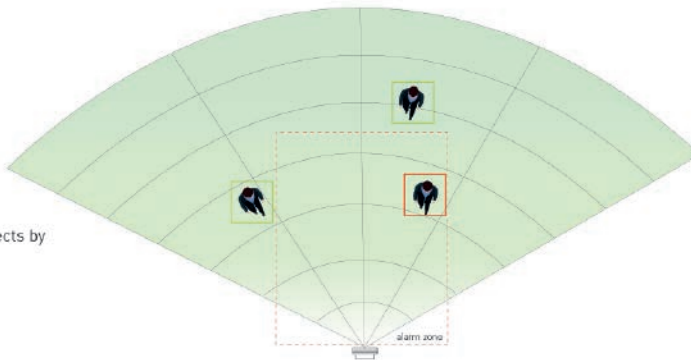
Things Are on the Move

This question was also posed by the engineers of the German radar expert Innosent. Due to the technology's potential for the security market, they are working intensely on innovative solutions. In light of the progress being made with radar and the newly created possibilities presented by related technical areas such as software development, an increasing number of enhanced functions are revealing themselves. These modern high-tech

USE SCENARIO

DETECTION of object

- speed
- distance
- angle
- direction



SEPARATION of objects by

- speed
- distance
- angle

The user scenario shows how it provides important security-relevant data such as the distance, speed, direction of movement and position of persons or objects

products initially were created for the monitoring of large outdoor facilities and perimeters.

A New Chapter in Near-range Detection

The new generation of radar for close range is based on the advanced MIMO principle (multiple input – multiple output). The system employs multiple antennas in order to differentiate between objects according to their angle within the detection range in addition to making distinctions based on speed and distance. This enables multi-target detection in real time. Thanks to the angle dimension, the objects can be located and distinguished from each other with greater precision.

Additional Radar Information

The new radar solution provides important security-relevant data such as the distance, speed, direction of movement and position of persons or objects. This allows, for example, cross traffic to be hidden or the estimated arrival time (ETA) to be calculated. This is an important function not only for security but also for building automation applications, such as the automatic opening of doors and gates.

While conventional motion detectors detect only moving targets, the new product from Innosent also records static objects or persons standing in place. It can also differentiate between different object classes, such as vehicles or persons.

Innovative Features

Another new feature is the capability to delimit the detection range: this makes it possible to freely define an alarm zone, coordinated with local conditions. The system ignores detections in non-relevant areas – an advantage for residential areas. To detect manipulations, the system utilises the tried-and-tested anti-masking function. The angular selectivity also helps to better identify individual persons.

Another special feature of this innovative product is the tracking function. It allows several objects to be observed and tracked over time.

Easy Integration

Since the new system is 24 GHz, its dimensions are compact and it can be concealed in inconspicuous housing. The tracking function is already integrated into the system. This way, very little development work is required on the part of security equipment manufacturers. Innosent's new radar system is planned for launch next year.

Be on the Safe Side by Merging Technologies

Nonetheless, one general disadvantage of radar technology remains. Even the best radar system falters when it comes to environments with a very large number of glass structures or reflectors. Here, a combination of multiple technologies provides greater security. Radar is ideal for connecting with PIR or video equipment. Such a combination significantly reduces the rate of false alarms and maximises reliability. After all, the advantage of the one compensates for the disadvantage of the other technology. However, simple motion detectors will remain in demand on into the future. They have been established on the market for many years, are cost-effective, and are good for handling less sophisticated applications, such as lighting control.

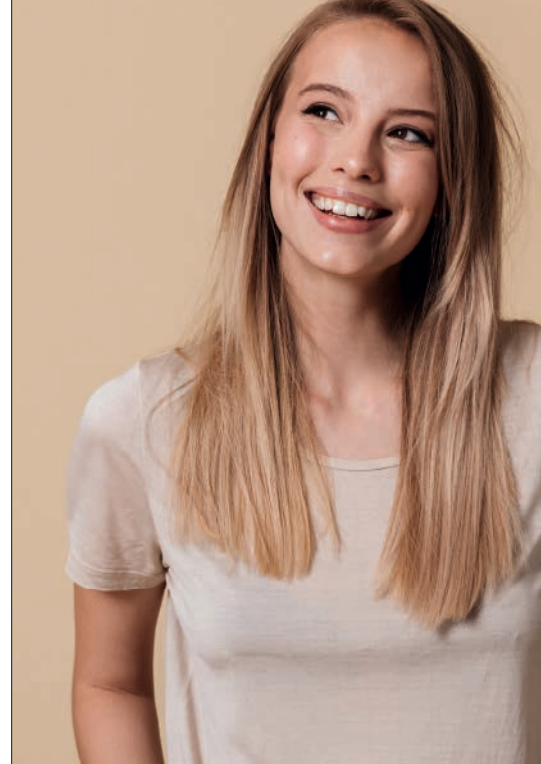
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CONTACT

Innosent

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SMART HOME

One For All

Ksenia Security: A Pillar of Italian Development and Manufacturing

Around the Sicurezza show in Milano, GIT SECURITY took the opportunity to talk with Raffaele Di Crosta of Ksenia Security, the Italian security and automation solution manufacturer. The insights he gave us into his company and its strategy are detailed in the interview below.

GIT SECURITY: Mr. Di Crosta, GIT SECURITY's readers have known your Company for quite a while. Let us, however, take a glance at your portfolio to get orientated: Security & Home Automation – what does this include?

Raffaele Di Crosta: Ksenia offers an IoT solution that covers intrusion, access control, video-audio verification as well as home & building automation. One control panel is used for both the residential and the large industrial or commercial installations, with just one app for the end-user (Lares 4.0). There is an app for the installer too (Ksenia Pro), who now can configure every type of panel from a mobile device (no matter whether tablet or smartphone) in a much faster and convenient way.

What are the main strategic propositions of your brand positioning?

Raffaele Di Crosta: The four main strategic directions, the four pillars of our positioning, are definitely innovation, design, made-in-Italy and eco-sustainability. To be present in professional business, all these have to be based on strong fundamentals, which in our case are our different certifications, primarily Grade 3 of EN50131.

How does your research and development team look – and could you give us an example of new approaches that differ from those of your competitors?

Raffaele Di Crosta: Our R&D, formed by young talents in software, firmware and hardware, is definitely working as a single team and adopting the agile-scrum mindset and methodology to improve its communication and the quality and reliability of their developments while significantly decreasing the time to market.

Design is important for your company. This is surely something that is considered a crucial part of being "made in Italy"?

Raffaele Di Crosta: Yes, it is. Since the very beginning, we have paid a lot of attention to properly design a product, not only from an electronic point of view – which is also very important- but also to make it the nicest product ever, even from an aesthetic perspective, of the right color. Take an outdoor siren as an example; we did not want to impact

◀ **Ksenia's smart home managing app:**
With lares 4.0 users can monitor their home, office or industry at any time



Raffaele Di Crosta, CEO Ksenia Security



Each device installed at home corresponds to a virtual card in the App

our historical cities with ugly colors or shapes, so we designed it as little "architecture invasive" as possible.

How is your distribution organized? In what way are you working together with distributors, installers etc.?

Raffaele Di Crosta: Our business model, and thereby our sales channel, involves only the best professional distributors throughout EMEA. That said, we are now growing even in other continents thanks to our value proposition combined with our strong investments in the sales and marketing organization. Our distributors are fundamentally our real partners, our Ksenia evangelists in their respective marketplaces.

Could you tell us about your latest solutions?

Raffaele Di Crosta: The latest IoT Solution is named "Lares 4.0", and is available in different sizes: from 16 to 644 I/O. It covers all possible market needs both in terms of physical security and in smart homes or building management systems. All our control panels are "always connected" thanks to their dual path technology, which is onboard IP + 4G-LTE. Recently, we also launched an energy management system, which for large installations can mean up to 40 % energy saving. Specifically for smart automation, we can also take advantage of voice assistants such as Google Home and Amazon Alexa. Last but not least, as Lares is an open platform, it also integrates perfectly with KNX, control 4 and crestron.

Mr. Di Crosta, you have moved to newly-built headquarters quite recently. What were the reasons for this step?

Raffaele Di Crosta: Yes, we moved in June into the newly-built Ksenia HQ which encompasses three office buildings with a new R&D center and a much larger manufacturing plant. The company is sometimes growing faster than our expansion plans and we simply needed more space in all areas; offices and plant.

This year was again Sicurezza time in Milano. What did you surprise your customers with in November?

Raffaele Di Crosta: During this trade show, we presented again a lot of new products as a "worldwide premiere", both for the security and the smart home markets. But we also highlighted the multi-sensor called "Domus", which was the number one GIT SECURITY award winner in the category Smart Home.

And congratulations for that once again.

CONTACT

Ksenia Security s.r.l.

Ripatransone, Italy

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EASY TO INSTALL: Designed to be installed in doors with existing locks, with no need for additional modifications or wiring.

SECURE KEYLESS ACCESS: Complete mobile-compatible electronic locking platform, increase in security, control and convenience.

SALTO
inspired access



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SECURITY FOR RETAIL

Retail 2020

An Update on Recent Developments in Retail Security

Retail theft cost storeowners globally around 100 billion USD per year, the equivalent of 1.4% of global retail sales. Retailers need to cut these losses, but loss prevention professionals face various problems in their daily job. They have to deal with lowered budgets but also with increased crime. Additionally, they have to cope with Marketing Managers who want to improve the customer experience, which can, occasionally, increase the risk of loss. For example, by not locking electronic devices by a cable the customer experience can be enhanced, but the risk of theft can be increased.

To cope with this dilemma the standard approach of loss prevention professionals is to concentrate on cost saving, leading security performance to a dead end. It is possible for loss prevention professionals to work with very cheap cameras, or even with mock-up cameras, but there is the very high risk of losing parts of the business. Modern IP surveillance solutions and intelligent management and access control systems can help balancing marketing and security needs.

Enhance Employee Productivity

A retail solution can increase employee productivity in retail shops:

- Unproductivity in the shop or in the backroom can be identified.
- Traffic jams at the point of sales can be detected, traffic patterns can be analyzed and staff resources can be optimized.
- Best practices can be recorded for employee training purposes.

High-resolution IP cameras connected to the existing IT network bring with them the benefits of digital technology. The most obvious benefit is the fact that with high-resolution pictures available, retailers are able to zoom in and freeze the frame at the exact point when the razor blade pack slips into the coat of a criminal and out of sight. Clear pictures that are usable in court make a big difference and might be enough to help with successful litigation or at least an admission of guilt. What

loss prevention directors in large retail operations like best is the idea of potentially being able to share video between stores and corporate headquarters. The big advantage is that retail managers have remote access to any video taken in the store, both live and recorded material, from any desired location including mobile devices connected to the internet or the 3G network.

Add Value

With data integrated in an IP network, the retailer can add value to the system by taking advantage of video analytics built into the camera or included in management software. Simple motion detectors and trip wires can alert storeowners when there is unexpected movement in an area or unauthorized entry.

An intelligent video solution is capable of more than helping to catch thieves; they can also tell management how well the store is working. The system can provide highly valuable customer frequency information and enable behavior monitoring, giving security a new marketing-related purpose. This dramatically increases the return on investment as profits are influenced by factors such as consumer traffic, campaigns and promotions that are more successful when there is an understanding of consumer behaviour. Visual statistics show exact customer traffic flows, indicate where customers stop and record how long each stop lasts. The tills might record sales volumes, but the cameras can now record the number of store

visitors, show stock takers the current level of stocks in storage and issue a message to the staff when shelves need replenishing.

Optimize Opening Hours

Video data can be used to monitor when customer traffic is high and low during the day. Staff hired for quiet periods is under-utilized and leads to high costs. Understaffing in busy times leads to a lower customer service level and a lowered sales performance. Retailers know that long checkout lines turn away customers. A solution that analyzes checkout lines can help to plan staffing levels and customer service provision and provide long-queue alerts in real-time so staff can be re-deployed to the registers, reducing the chance of customers being lost to queues.

Finally, modern systems can identify specific behaviors and instruct the camera system to identify and follow a person throughout the store. For example, if someone packs in a great amount of OTC painkillers, the camera will lock onto them as they walk through the store. Other cameras in the system will be instructed to follow the person and zoom in. Video analytics can also alert store management to a variety of other situations, such as a blocked emergency doors and specific shopping habits.

Clearly the data collected is of enormous value to the marketing department of retailers as well as the marketing department of companies selling through retailers. Using this data store managers



The Code Handle battery-operated digital lock secures doors with a slim-line handle



Hikvision's DeepinView Facial Recognition Camera can capture a shopper's gender and age

can make sure that they have set up special promotions correctly and control if seasonal products are displayed in a timely manner, making a direct contribution to the retailer's profit. Retailers can also address their suppliers directly and sell them the data collected for marketing controlling purposes. It is easy for Brand Managers or Marketing Executives to check what effect a TV or advertising campaign for a certain product has on the demand for the advertised product. If you control the traffic in a retail chain during a campaign you can get an in-depth analysis of customers' behaviour as well as sales figures. Face recognition, for example, enables retail leaders to rely on actual data instead of assumptions concerning age and gender of customers.

Cloud-based Platform for Access Control and Video Management

ACRE companies **Vanderbilt, ComNet** and **Open Options** are gearing up toward an exciting Intersec show. Core of the presence there will be the award-winning cloud-based solutions, SPC Connect and ACT365. ACT365 is Vanderbilt's platform for access control and video management and is a good example for a clever retail solution. Clients can download an app on their smartphone. In case of an early-morning delivery, the store manager can identify the courier through a live video feed and then remotely open the doors of the loading bay to allow the delivery to be made. The manager can monitor all of this remotely and once the delivery is finished, they can close the loading bay door and it will automatically rearm SPC Connect is a hosted cloud-based solution designed specifically for installers to monitor, manage and maintain SPC panels remotely from any location. Both these solutions are designed to excel in several sectors, both have earned stripes and praise for excellence in banking and retail in particular.

Qognify's Umbrella VMS is another VMS perfectly suited for organizations in the banking, retail, logistics and transportation industry, which operate large-scale branch networks with hundreds of sites and thousands of cameras to be managed and place a premium on their physical security strategy.

Enhance the Shopping Experience

Marketeters' quest has now turned to technology to bring exciting new experiences to the shop floor, and at the front of the queue for these changes is the fashion industry. One of these innovative methods uses a camera, for example **Hikvision's** DeepinView Facial Recognition Camera to capture a shopper's gender and age to recommend suitable products, giving them an immersive experience.

Software can also recommend items – either as replacement, or even to complement, which increases the sale value. The DeepinView camera is armed with Deep Learning technology, which powers the smart element of the solution. Although the system does not keep records of those it scans, and so cannot identify them, it can detect how old they are and their gender using facial recognition. It can also be used to create a VIP customer scheme (with explicit permission from the customer) so that when the camera recognizes the customer entering the store, the sales attendants are alerted, with information about the customer. This means they can immediately approach them with a much more personalized service. This can really help shoppers and goes some way to make them feel special, understood and catered to individually.

Panasonic takes on this challenge, too. Its business analytics identifies customers on the premises and drawing from that visual information, retailers can assess their gender, their age, their approved access level or even their likelihood to buy products or services. Furthermore, they deepen their level of detail by matching gathered information with heat mapping, which monitors the movement of individuals, groups or large crowds of people throughout the premises, looking at where customers went, how long they stayed in certain areas and where the greatest density of visitors was at any given time of day, month or year. A great addition is a digital signage solution. It integrates LinkRay technology, which uses LED light to transmit content to mobile devices, and turns digital signage displays, signboards and light sources into 1-2-1 marketing tools for smartphones. The signage also uses age and gen-

der recognition to deliver targeted advertising specific to the viewer.

The people counting functionality built into the new **Hanwha Techwin** Wisenet Q mini domes offer retailers the opportunity to monitor store efficiency in terms of the relationship of footfall data with actual sales. Retailers can also take advantage of the captured data to measure the impact of on-line promotions and other marketing activities on the number of people who enter their stores, as well as making best use of human resources in order to manage the peaks and troughs of customer flow at checkouts. In addition, the new mini domes have been integrated with Retail Insight, a shortly to be launched business intelligence solution which users will be able to purchase separately and which utilises people counting, queue management and heat mapping applications to provide Statistical Analytics via an affordable centralised dashboard software solution. Accessed from anywhere on the network, Retail Insight will consolidate data captured by up to 500 cameras and present it on an easy to understand dashboard to enable business managers to have a greater understanding of customer related activity.

Access Control Solutions

All retail outlets have doors off their shop floor where the public should not go. Yet managing keys creates a distracting staff workload. A bulky mechanical PIN lock ruins the aesthetics of the shop. In a small retail space, electronic access control could be overkill. Now, the **Assa Abloy** Code Handle battery-operated digital lock secures doors with a slim-line handle. Code Handle is a locking handle with a built-in PIN keypad. It adds reliable electronic security to almost any interior door, with no unsightly push-button unit. To lock a door facing a public space, Code Handle does it subtly, simply and with no hassle. Code Handle is easy for shop staff to operate, you set your own Master Code and issue up to 9 different user PINs (4–6 digits). Employees and authorised visitors such as cleaners press their code on the handle's keypad and the door unlocks. Close the door and the Code Handle locks automatically. ■



SPECIAL FOCUS HOTEL

Best of Hotel

GIT SECURITY Has Put Together a Selection of the Latest Security Solutions for Hotels

Successful hotels are able to make guests feel welcome. Business travellers want an absolutely smooth and uncomplicated check-in and -out, private individuals simply don't want to worry about anything.

In addition to basic conditions such as cleanliness, friendliness and good food, it is an indefinable feeling of safety that plays a major role in well-being while staying at a hotel. What many people don't know is that security and a smooth-running organization during a stay often go hand in hand. One major influence are the components of a security systems that not only have now far surpassed their reputation for pure security. They have long since ceased to provide only monitoring, but now offer a number of advantages in the course of hotel operations. From arrival through the door to identification, the room door, check-in and check-out, entry and exit at any time of day and the secured areas. GIT SECURITY provides you with some of the latest solutions directed towards the hotel sector.

It All Starts Outside

The entrance area and lobby are the face of a hotel. Maintaining the signature of the entrance in style and securing it on the other hand is one challenge many hotels face. One solution are the revolving doors by **Boon Edam**. Depending on what requirements are given, the high security revolving door, Tourlock 180, can be integrated with a variety of different security systems that accurately detect any form of piggybacking or tailgating. The rotation of the revolving door can only be started af-

ter an authorisation signal from an access control system such as a card reader or biometrics reader.

This can even be combined with something else: Sometimes it is a simple sensor outside a door that provides reliable detection even in bad lighting conditions. "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", says Toru Kamimura, President of **Optex** Japan.

Solution for Every Hotel Type

Access control is the core part of the security system of a hotel. **Salto**, for example, offers a complete solution for many hotel types, both newly constructed and refurbished. By combining Salto electronic locks, ProAccess Space software with the JustIn mobile app, the Zoku Hotel in Amsterdam have found the solution they needed. ProAccess Space includes functionalities such as mobile keys, group check-in, real-time re-rooming and real-time extended stay. By using the software in combination with the guest mobile app, users can book meeting spaces, services or extend their stay instantly. If a meeting takes more time than expected or a flight is delayed, they can enjoy their stay longer at the hotel. Their keys are updated, and the access rights extended for a few hours or more if needed.

One of the highest operating expenses the hotel industry experiences is the usage of energy right behind labour. Salto has another solution called Universal ESD. The system allows hotels to optimize energy consumption by turning off lighting and adjusting climate control systems when guests are not in the room for long periods of time. The system components and Salto's Universal ESD ecosystem uses infrared detectors and advanced wireless technology.

Mechanical keys, electronic keys, key cards, fingerprint readers and wireless systems: Dormakaba also offers a wide range of access control elements - from individual devices to sophisticated wireless network solutions. This means that hoteliers always have the security of their facilities under control. All RFID locks are Bluetooth Low Energy (BLE) capable and can operate using the **Dormakaba** Mobile Access Solutions, allowing guests to use their mobile devices as their room key.

From Keys to Surveillance

Entries should have clever access control, but it doesn't mean that premises shouldn't be under surveillance. One example is the CCTV Solution for Landmark Amman Hotel by **Dahua**. The 5-star hotel had security patrols for the grounds and premises and an old analogue system where many cameras were broken. The new CCTV solution included IP



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Siqura (TKH Group) cameras secure the Kuwait Hyatt Regency hotel situated in Al Kout Mall, the second-largest shopping mall in Kuwait

cameras and NVRs and solved many problems. The 4 MP IR Eyeball Network Camera includes smart coding, intelligent video analysis, WDR and smart IR technology. The NVR supports 4K and H.265 encoding technology, can be used as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control. The hotel could not only increase their security level, but also revenue by monitoring and invoicing according to the actual numbers of guests.

Another larger-scale project took place in Kuwait, where **Siqura (TKH Group)** cameras secure the Kuwait Hyatt Regency hotel situated in Al Kout

Mall, the second-largest shopping mall in Kuwait. The order was for a video surveillance and access control system as a complete solution. 'The video surveillance part of this project consists of around 350 Siqura cameras of different types along with the proven VDG Sense video management software, operated from an internal control room in the hotel. The i-Protect access control part is for around 120 doors with swipe cards. In addition, there are some 300 monitored doors', says Ibrahim Matkawala, Business Development Manager at Delite Engineering Center, by whom the system was implemented.

CCTV, Access Control and Fire Protection

Amthal Fire & Security currently maintain all existing fire and CCTV systems throughout Sopwell House, a Georgian Country House Hotel in the UK. And for the new spa facilities, Amthal is installing latest IP CCTV together with access control integrated with the main hotel and extending the fire systems, again from the main hotel building. Paul Rosenthal, Sales Director at Amthal Fire and Security added: 'Today, hotel guests have higher expectations than ever, including personalised experiences and the opportunity to create memories, even if it's just an overnight stay.'

Dormakaba Mobile Access Solutions allowin guests to use their mobile devices as their room key



ROI Through Key Management

By integrating hotel key inventory software, facility managers can more easily control reporting and program access capabilities. A key or an asset management system is very helpful. **Morse Watchmans** is one brand to look at when keys, assets or a carpool needs some management. Their hotel key control software can run activity reports and sort based on different criteria, allowing management to generate useful information to help mitigate access control issues. It can be a true ROI when key control cabinets are installed on various floors of the hotel for the housekeeping staff. For example, when an employee has called in sick, and another staff member must cover for that individual, the manager can remotely authorize access to a KeyWatcher Touch rather than physically traveling to the site to release a key. A pre-programmed access control card is all that is needed to access or return a key from the cabinet, and all key activity including the time and the individual's name is automatically recorded. ■

Security in a new building at the University Hospital is ensured 24/7 by a flexible eCLIQ solution



COVER STORY

The Best of Both Worlds

Intelligent Electronic Locking Without Throwing Away the Keys

With its 32 clinics and 20 research institutes, the University Hospital in Frankfurt is the largest hospital in Hesse, Germany. More than 4,500 employees treat around 270,000 patients per year. Extensive new expansion and renovation in multi-phase construction stages have been in progress since 2001. As part of an access control overhaul, electronic eCliq cylinders and keys from Assa Abloy now provide the secure locking system for a new building. Nurses update access rights every morning for the day ahead.

Host GmbH Hospital Service and Technology and its staff of 150 employees are responsible for all the technology in use at the University Hospital. An Assa Abloy locking system has already provided several years of faultless operation. Therefore, it was an obvious choice for them to install eCliq in a recently completed new building. This system comprises 1,100 cylinders with an equal number of keys, and a customized web system. There are also five wall-mounted programmers, four of which are provided with anti-vandalism protection.

And not only hospitals benefit from this technology: Cliq systems are already providing convenient lock management in ski resorts, schools, medieval castles, theaters, museums and railway buildings, alongside many large and small offices around the world. Retail banking combines high security with complex workflows; staff need efficient access; facility managers need the flexibility to design access permissions around individual needs and clearances. Creval's bank doors across Italy's Lombardy region are now locked with more than 30 eCliq cylinders, putting managers in total control of entrance security. In the unlikely event that a key is misplaced, Creval administrators simply delete it from the system.

Elsewhere in Germany, eCliq locks Ampelmann branches and their 2,200 m² logistics center, meeting the needs of a decentralized branch organization. Its eight Berlin branches are staffed by several permanent employees while external service providers like cleaners also need access at certain times. eCliq provides it, safely, securely and without major key-management workload.

Rights Management

An electronic locking solution minimizes security risks when keys go missing. Everyone's access can be managed from anywhere, at any time, electronically, securely and wirelessly. Thanks to multiple software options, users' access rights are managed in a way that best suits the situation. Authorized key-holders carry a single, battery-powered key that is programmed with only their cleared access permissions.

The eCliq system is built around precise locking mechanics and high-end microelectronics. A battery inside each programmable key powers the wide range of programmable cylinders and padlocks – and secures every data transfer.



Combining the best of both worlds, the Cliq key provides mechanical and electronic security in a straightforward and versatile system

Off Site Challenge

Helen Oy (previously Helsingin Energia) is one of Finland's largest energy companies. It supplies around 400,000 customers with electricity, covering about 90 percent of the heating needs of the national capital, Helsinki. The company required a secure locking system suited to a large and dispersed workforce: they have around 1,250 employees and 2,600 contractors, with ever-changing access requirements. Infrastructure security is of course paramount – any interruption in supply would affect homes and businesses across the city – so the company needed to switch to a security system tailored to the needs of critical services.

The solution needed to have high levels of security to ensure reliability of energy supply, around the clock and every day of the year; a unified locking system that works across 3,500 door openings and 70 different site locations, ranging in type from power plants to warehouses; and remote web-based administration for managing employee and contractor access rights.

The Protec2 Cliq system, first installed in 2013, uses mechanical locking paired with electronic identification. Each employee now carries just a single, programmable key that opens only the doors that correspond to their particular access rights.

eCliq keys are durable, compact, and waterproof (IP67), and are easy to reprogram, enabling temporary and time-limited access permissions for every employee or contractor. AES encryption, rapid processing, and efficient energy management are built into the chip. When a key's battery runs out, it is easily replaced without tools.

Unlike other electronic access control systems, eCliq uses no mains electricity. The microelectronics inside a lock are powered by a standard battery inside every key. Energy-efficient and sustainable, battery power also minimizes disruption when you switch to eCliq. Because there is no cabling around the door, you don't need to schedule invasive, expensive electrical wiring.

Not Just for Doors

Robust and durable cylinders are available for a wide range of doors, cabinets, lifts, alarm boxes, machines and entrance gates. Maintenance of the components is also easy: an integrated lubricant reservoir ensures cylinders remain maintenance-free for up to 200,000 cycles. Mechanical and encrypted electronic elements work together to make an installation highly resistant to both physical and electronic attack.

Simple, Secure Management

Managing eCliq is straightforward. You can program keys with easy-to-use Manager software: choose between a local software installation or secure web-based software which manages access rights from anywhere, in the cloud. Security managers can host the Web Manager software on their own or use Assa Abloy's Software as a Service solution. Missing keys can be quickly de-authorized, cutting the risks associated with key loss or theft. At any time, facility managers can generate a full audit trail to discover who has accessed which locks. Users can also update their own keys with a range of programming devices, including wall-mounted units.

"eCliq is more durable, more secure and more efficient than conventional locking systems," says Stephan Schulz, Product Manager at Assa Abloy Opening Solutions EMEA. "This evolution of our technology is already protecting businesses and public services across Europe. A range of sectors and building types, from banks and hospitals to shops and warehouses, have found that eCliq provides the control and flexibility their premises need."



eCLIQ solution by Assa Abloy

CONTACT

Assa Abloy Digital and Access Solutions EMEA
London, United Kingdom
thomas.schulz@assaabloy.com
campaigns.assaabloyopeningsolutions.eu/ecliq



Vincent Dupart, CEO STid

ACCESS CONTROL

The Success of Instinctive Identification

STid Focussing on International Growth and Innovation

STid has been leading the field in the design of contactless instinctive identification solutions for more than 20 years. With revenues of €13 million in 2019, the group's strong growth is fuelled by supplying solutions to protect people, data and property for enterprises, governments and the most demanding industries. We take a closer look at the latest news from STid and the major trends in security with STid's CEO, Vincent Dupart.

GIT SECURITY: Tell us about the skills behind STid's success.

Vincent Dupart: STid is a pioneer in the command of contactless identification technologies and the IoT. The Group deploys this know-how in two strategically important fields of activity: security, with access control for people and vehicles, and traceability in industries like aerospace, energy or defence. Our strength lies in our capacity to merge enterprise security policies with ease of use. These conflicting expectations can both be met thanks to two key factors: innovation for greater ease of use and uncompromising levels of security.

What are the major trends for STid in 2019–2020?

Vincent Dupart: 2019 is the first year of our five-year growth plan. STid now posts revenues of €13 million, employs 70 people and operates on a global scale. We are progressing well, with a growth rate of 39%. This has been achieved thanks to our development in the United Kingdom, the United States and the Middle East, and to our investments in industrial traceability.

A dynamic that is reflected by recent events in the Group. The Strategic Committee for Security Industries also recently awarded us its "Major Events" label, in readiness for the preparations of the 2024 Olympic and Paralympic games in France. We recently won the 2019 Golden Trophy at the APS exhibition in France, and we have also been nominated for the 2019 Detektor International Award for Spectre, our simultaneous and automatic vehicle and driver identification solution. A great reward for our team!

How is Spectre an innovative solution?

Vincent Dupart: The new Spectre range of readers combines passive UHF technologies and Bluetooth. What are its main benefits? The automatic and remote identification of vehicles, with simultaneous access control of up to four lanes. Spectre can also withstand impacts and acts of vandalism and has received an IK10 certification. This new range is designed to optimise access to parking lots and the management of vehicle fleets for businesses, industry and State organisations. The Spectre reader has revolutionised the codes of vehicle access control.

What are the next steps?

Vincent Dupart: We are continuing to invest in the technologies of the future, still on the basis of open and interoperable solutions. This is a bold stance. By working with open technologies, we run the risk of witnessing our customers turn to other solutions however our annual growth demonstrates that we have adopted the correct position. Today, a reader that is scalable over time, working on open technologies or offering resin-free solutions, all make STid a unique player on the contactless identification market. Also, we plan to reinforce our teams. In 2019, we have made 25 new hires in order to offer the proximity and the presence that our customers' needs demand. Growing is our priority but not at any cost. We will maintain the same level and quality of service on which STid's reputation is built.

CONTACT

STid

Greasque, France

Tel.: +33 442 126 060

www.stid-security.com

Third-Party Biometric Readers

Vanderbilt has added three ZKTeco Biometric readers to its access control portfolio. The latest additions come off the back of the launch of the company's Bluetooth Low Energy (BLE) readers, plus the inclusion of Akuvox's IP Door Entry Phones into their collection of products. As with the BLE readers, the biometric readers integrate with Vanderbilt's ACT Enterprise access control software, version 2.10 or later. The ZKTeco Biometric readers that now integrate with Vanderbilt's ACT Enterprise are the MA300, the SF420, and the SLK20R. These readers have a fast and accurate fingerprint algorithm, easy installation and connectivity, and smooth operation and management. The MA300 fingerprint reader comes in a metallic casing and is IP65 rated, making it resistant to water, dust, and other outside damage. It also contains full access control features with anti-passback, an access control interface for third-party electric locks, a door sensor, an exit button, an alarm, and a doorbell. Moreover, it works with ACT Mifare Classic cards.



www.vanderbiltindustries.com

PIN Door Lock for Health Premises

The Code Handle electronic PIN lock from Assa Abloy provides security, in particular in busy medical facilities such as surgeries, dental practices or physiotherapy suites, where it's all too easy to accidentally leave a door unlocked. With expensive equipment or controlled drugs on the other side, any opening invites an opportunist. The secure, easy-to-fit handle fits right over an existing locking cylinder and is fixed in place with two screws to instantly add PIN security to any consultation room, medicine store or equipment cupboard. There is no wiring and no expensive access control to fit. Two standard batteries (CR2) slot inside the handle, typically lasting 30,000 lock/unlock cycles before replacement. The product comes with a master code and 9 different user PINs that are easy to set and change whenever an office manager decides. For added security and peace of mind, the Code Handle locks itself when the door closes.



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As if by Magic

'Do I have my keys with me?' Almost everyone asks themselves this question as they leave the house. Soon, we'll just need a smartphone to lock and unlock doors instead of metal keys. The market is seeing more and more intelligent locks that can be locked and unlocked remotely thanks to sophisticated technology. Safety remains the top priority.

The creation of the lock goes back many thousands of years. The mortise lock is the oldest known lock in human history. The oldest found dates back to 750 BC. Mortise locks are still produced and used in certain parts of the world (West Africa, Anatolia and the Faroe Islands). There are well over twenty different types of lock, distinguished by their latches and overall designs. Most of these locks are very sophisticated — after all, this is a millennia-old tradition and master craft.

Mobile Access

In the 21st century, lock design has made a quantum leap away from mechanical and towards digital solutions, enabling completely new applications with disruptive potential.

Intelligent locks let you open a lock located at the other end of the world simply by clicking a button on your smartphone or by sending someone else your permission to open the lock. This technology is, on the one hand, intriguing and, on the other, somewhat disturbing at the same time. After all, security is essential when

it comes to smart locks. Therefore, the protection of data is central to building trust in this new technology.

To provide the highest possible level of security, wireless lock communication needs to be secured with modern, symmetrical or asymmetrical encryption algorithms. Sensitive data such as the key should be encrypted before storage. Instead of saving user passwords as plain text, only their hash (encrypted checksum) should be stored.

Cloud applications are best operated in geo-redundant data centres and on the infrastructure of well-established companies. Digital keys, lock networks and the data generated by them allow for new knowledge through the use of intelligent machine learning algorithms. With online authorisation management, the administrator can ensure that only authorised persons or groups can gain access. The administrator can also retrieve detailed information concerning when or where a door has been unlocked. Permissions can be issued and withdrawn anytime, anywhere.

Digital locking systems will soon provide additional functions that allow for more convenience than proprietary technologies such as traditional keys or RFID cards. Pioneering features such as 'hands-free mode' and the integration of 'mobile access' into smartwatches are currently being worked on. The goal is to let authorised users pass through a door as if it were already unlocked without having to pull a key, card or smartphone out of their pocket.

At the moment, there are various intelligent lock solutions on the market. Some of them stem from one of the roughly 150 traditional lock manufacturers in Europe, while others are designed for specific niches such as use in the automotive industry or exclusively for the 'smart home' environment. Obviously, the big upturn in mobile access is still to come.

The ideal solution should be vendor-neutral with open cloud architecture that allows customers to flexibly scale their hardware and effortlessly integrate additional services. Otherwise, customers would need to install countless mobile access apps in order to open all the doors in both their private and business environments.

The 'KleverKey' mobile access solution by Swissprime Technologies AG has integrated many of the various lock manufacturers into its solution. Customers only need one app to gain access to their car, printer, home, office, bike or gym and to remotely manage their permissions.

The Advantages of Mobile Access

The rapid increase in demand and the high level of interest indicate a clear trend towards mobile access. The advantages speak for themselves:

Users manage all their locks in a single app. So as well as unlocking/starting their car, bike and home, they can easily rent their belongings and generate additional revenue streams. By connecting the 'mobile access' service with other services such as booking platforms and alarm systems, completely new areas of applications are opened up and the value for the user increases exponentially.

Operators benefit from massively simpler management of entire user groups and properties. Access rights are managed via an intuitive web interface or using existing IT systems. No keys can get lost, no locks need to be replaced. Connecting more services through the cloud creates simpler processes and cuts costs significantly. KleverKey therefore relies on open interfaces to accelerate integration.

Manufacturers of intelligent locks whose products can be operated by key and RFID card can extend their portfolio to include mobile access and thus participate in a digital SaaS (software-as-a-service) business model. With KleverKey, it takes only a few days to integrate mobile access technology into new intelligent locks. As a vendor-independent provider of a mobile access solution, KleverKey's vision is that customers can manage all of their locks and permissions in a single app.

Service providers can use mobile access to connect the KleverKey cloud service with their own services, creating further business opportunities such as: reception-free hotels, AirBnB apartments and co-working spaces unlocked via smartphone; intelligent alerts for blue light organisations and autonomous pick-up stations; keyless facility management; automated access for care organisations; and guaranteed package delivery to name but a few.

CONTACT

Swissprime Technologies AG
Miro Mandelz (Partner, Head of Sales)
m.mandelz@swissprime-tech.com
swissprime.tech

eCLIQ: The key to electronic locking

eCLIQ is a durable and secure electronic locking system utilizing web-based software

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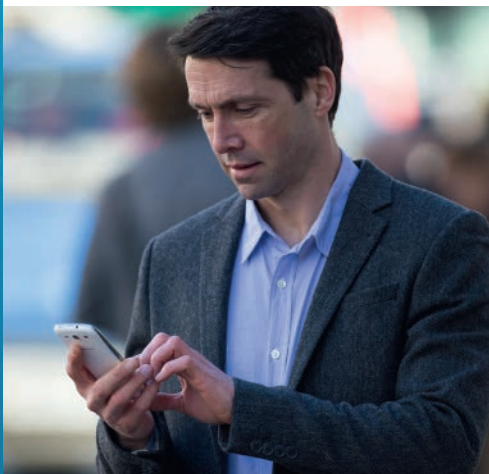
Experience a safer
and more open world



For small businesses



CLIQ® Go app enables you to manage your system on the run



For complex businesses



CLIQ® Web-Manager and CLIQ® Connect app help to manage access rights of mobile workforces using Bluetooth®



For all businesses



CLIQ® Web-Manager for small to medium sized businesses that want to manage access rights, anytime from anywhere





ACCESS CONTROL

Fully Assured

A Truly Secure Mobile Key Solution
Starts With its Architecture

There are many mobile key offerings on the market today, however not all solutions are created equal – especially when it comes to security. In critical infrastructure facilities such as airports, government offices, military bases, or financial institutions, would simply entering a four-digit code that was sent to a smartphone onto a keypad be considered a secure access solution?

A false sense of security can create vulnerabilities. The next step up from simply sending a code for a user to enter on a keypad would be to transmit such a code from the smartphone to the electronic lock over a communication channel such as Bluetooth or NFC. By using the built-in security features of such channels, the code cannot be eavesdropped. However, since the code stays the same for a period of time, a message between smartphone and lock could potentially be recorded and then replayed while pretending to be a valid sender, hence compromising access security to potentially gain access.

Symmetric Cryptography

Other mobile key solutions start to get serious about security by using an end-to-end symmetric encryption solution which completely hides the access permissions data from any third party. Such a solution involves encrypting the access permission data on the sending end, then transmitting that data, and finally decrypting that data on the receiving side. However, since symmetric encryption is based on a single secret key responsible for encrypting and decrypting the data, it is essential that this key be kept secret at all times.

When applying this method to the mobile keys use-case, fundamental weaknesses arise concerning the distribution and protection of this secret key. Although installing the secret key onto the lock could be done securely at the manufacturer, the difficulty arises in getting the secret key securely onto the mobile phone. Distributing the secret key over the air risks interception which would then compromise all locks using that secret key. And requiring that the smartphone be brought to a secure location to have the secret key installed is clearly not a feasible distribution method. Further, the phone itself could be attacked and the secret key stolen or manipulated, meaning that applying symmetric encryption to the use case of mobile keys yields an inherently insecure solution.

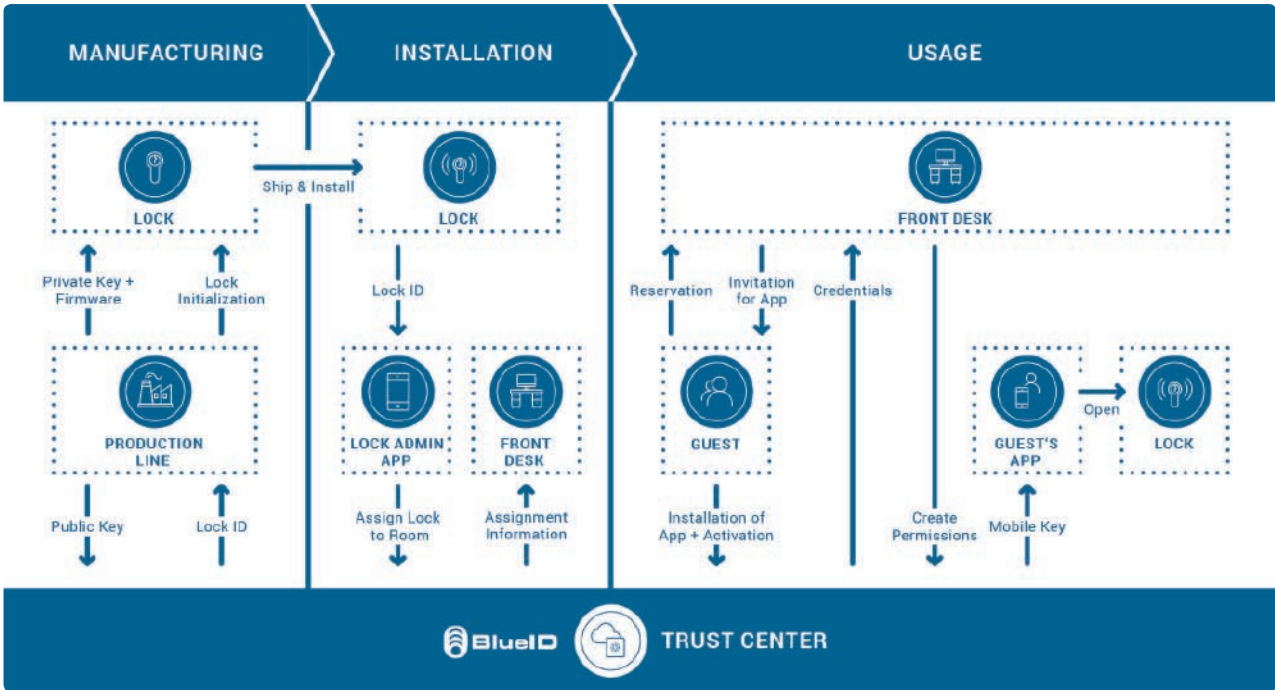
Asymmetric Cryptography

Asymmetric cryptography uses two different but mathematically linked keys – one private and one public. Modern asymmetric cryptography algorithms are so secure that they are commonly used to provide communications security in computer networks, like for example within the widely used Transport Layer Security protocol, used for Internet banking. In contrast to symmetric encryp-

tion, asymmetric cryptography not solely focuses on hiding a piece of information but enables a different kind of cryptographic entity: the digital signature. This signature enables a secure way for verifying the authenticity of a digital message and is created by signing a piece of data with the private key. Vice-versa, the public key can be used to verify the signature and thus the authenticity of the data.

One major advantage of this concept is that there is no need to transmit the private key - only the public key needs to be distributed to another entity for this to work. Distributing a public key over an insecure communication channel implies no security risk - intercepting a public key would be akin to finding half of a physical key on the street – without the other half, it would be effectively useless.

But how does this apply to the world of mobile keys? Generally speaking, there is just no need to encrypt the transmission of data containing the access rights in most applications – the crucial part is the authenticity of this data. Using asymmetric cryptography and digital signatures, this authenticity can be provided between a lock and a smartphone. Although asymmetric cryptography is



Public key integrity is ensured, from manufacture to installation and then to usage

more complex than symmetric encryption, the processing power of modern embedded devices and mobile phones enables such cryptographic operations in a reasonable amount of time and does not interfere in any kind with a fast and reliable user experience.

PKI Architecture

For even further security, a trusted managing party can be established. By adopting this to a cloud-based solution, a Public Key Infrastructure (PKI) with the managing party as Root of Trust is established. Consequently, the managing party is used to issue, sign and distribute new access rights securely to a smartphone. In order to securely prove the access rights and verify the signature of the

managing party, the lock only requires the public key of the cloud service, which could easily be installed on the lock at production. By attaching the public key of the smartphone to the signed access rights, a challenge-response protocol can be accomplished between lock and smartphone, resulting in mutual authentication between lock and smartphone.

One such implementation for mobile key solutions that is available today and has been in use for a decade is offered by BlueID GmbH, a Munich-based company that got its start with secure vehicle access. "The security requirements of the automotive market are extremely demanding, therefore from the very beginning we designed our solution from this perspective using PKI to be even more

secure than traditional car keys. The many simpler methods being currently offered, just cannot ensure that access to or the starting of cars could not be exploited." says Philipp Spangenberg, BlueID CEO and founder, adding "Our customers such as VW and Audi rely on BlueID's secure PKI architecture to protect their brand reputation. We offer the same real-world tested platform to the facility market, especially for office buildings, hotels and utilities infrastructure where security is paramount."

Hotel Use Case

To illustrate the creation and usage of a mobile key, the process begins with integrating the BlueID solution into the Bluetooth chip of the smart lock – with the BlueID Ready2Go firmware offering out-



KEYLESS WORLD

Digital locking systems with access APP control

The finest in keyless security www.simons-voss.com

of-the-box solutions for chip series from Nordic Semiconductor and Silicon Labs. The BlueID firmware along with a private and public key pair are loaded during production, resulting in the private key never leaving a secured environment or stored anywhere else than on the lock itself. Consequently, only the public key of the lock is sent to the Trust Center which creates a unique lock ID that is additionally loaded onto the lock at production.

After production, the lock is sent to the facility and installed at a specific room. The BlueID Lock Admin App is subsequently used to get the new lock's ID and assign the lock to this specific room. The app further informs the Trust Center about the assignment, which finally correlates this data for the front desk software of the hotel. After receiving a reservation by a hotel guest, the front desk creates an app invitation for this guest who just needs to install the hotel's mobile key app, thereby uniquely identifying his smartphone to the Trust Center.

Within this activation, a public and private key pair are generated on the mobile phone, with only the public key being sent to the Trust Center and the private key being stored securely on the phone. After receiving the activation from the guest's app, the Trust Center creates credentials for the guest and sends them to the front desk which associates this data to the guest in the hotel's booking system. Finally, the front desk requests that the Trust Center generates the mobile keys for the guest's phone, which are created and signed in the Trust Center and distributed to the guest's mobile key app.

Arriving at the hotel room, the guest simply uses the app to open his room, initiating the verification procedure with the lock that opens the door – typically within a second or two. Within this verification procedure not only the validity and authenticity of the access permissions (e.g. room number, time frame) are verified by the signature

of the Trust Center, but also an authentication of the guest's phone with the lock is performed.

The guest enjoys the convenience of using a phone, while the hotel benefits from PKI security.

Authors

Benedikt Petschkuhn,

Embedded Software Engineer

Dennis ODonohue,

Senior Business Development Manager

CONTACT

BlueID

Munich, Germany

communications@blueid.net

www.blueid.net

+49 (0)89 8099 0260

ACCESS CONTROL

Easy Access Management

Choices on Managing a Key-Based Access Control System

The way a Cliq access control installation is run can be customized. The Cliq Web Manager makes it easy to program, reprogram or audit every key, cylinder, padlock or updater. And because the interface is accessible from anywhere with an Internet connection, via secure login over https and multi-factor authentication if required, access can be managed whenever and wherever necessary.

The intuitive software from Assa Abloy boosts operational efficiency. Access to specific locks is filtered according to the precise security needs of a site and its users. For any Cliq system, individual schedules can be created for key-holders, doors or audit trails. With just a few clicks, a key or system can require users to revalidate keys regularly, making it safer to issue time-limited access to contractors or visitors.

The Web Manager offers this same degree of customized efficiency when Cliq electromechanical locks or fully electronic eCliq locks are managed. It powers the interface between Connect keys and the Bluetooth-powered Connect app, for the secure updating of remote keys used by mobile workers and contractors – with added PIN protection if required.

The Web Manager program has the flexibility to integrate with existing access control systems and other customer software. Its architecture supports multiple administrators or sites, even across different time zones. Workflows become easier and the option is available to administer access



Every element of an electronic locking system is easily managed with the Cliq Web Manager, also remotely.

in a self-hosted IT environment or completely free of local software installation with two different software-as-a-service solutions.

For the highest levels of access security and scalability, the Web Manager comes with a software-as-a-service (SaaS) option. Either a shared SaaS solution or a dedicated SaaS solution with hosting just for yourself can be chosen, selecting maintenance schedules which best suit the business. Both options are hosted by Assa Abloy, and save businesses the cost of extending in-house server capacity or employing dedicated IT staff to manage access software. Security infrastructure budgeting becomes more predictable.

Data benefits from complete redundancy, so regulatory and compliance requirements can be met without stress. The company provides round-the-clock support, maintenance and incident reporting in standard Service Level Agreements delivering up to 99.5% availability. And with a SaaS solution, the Cliq software is automatically kept up to date – a big plus for cyber-security resilience.

CONTACT

Assa Abloy EMEA, Woking, UK

www.assaabloy.com

Solution Platform with Artificial Intelligence and Deep Learning

Mobotix has launched its Mobotix 7 open solution platform and the M73 high-end camera that uses it (see also large article on page 27). Supported by artificial intelligence and application solutions based on deep learning, the video camera enables a broad set of functions and opens up possibilities beyond traditional video security. The Mobotix 7 is a decentralized and secure, modular IoT-video system based on deep learning modules. The hardware and software are 'Made in Germany', and tailor-made camera apps can expand the platform. The product comes with pre-installed apps that are verified and certified to meet the highest standards of cyber security. These apps are supported by artificial intelligence (AI) and deep learning, and cover a significant number of industry-specific, individual requirements. It is also possible for partners, customers or users to develop and program their own solutions and have these certified by Mobotix. The new M73 camera is ONVIF-conformant.



www.mobotix.com

Authenticated Access Control

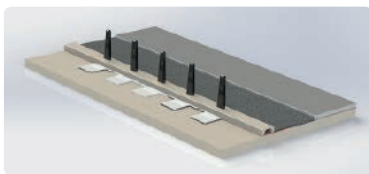
With its main product named Access, Blue ID has developed a secure and versatile cloud-based access control solution for the authentication and authorization of a user's mobile device in the facility market. As a hardware-independent solution, it supports not only different System-on-Chips (SoCs), but also the locks and wall readers of various manufacturers. Now it has been integrated into mortise locks: the Ülock-B Battery and Ülock-B Inductive from Südmetall are the newest additions to the Blue ID hardware catalog. The new mortise locks offer functionality and convenience and can be retrofitted into any standard door. They are not recognizable from the outside and do not require additional components to unlock the digital functionalities. The Ülock-B Inductive model operates without batteries and is charged via induction when the door is closed. The mortise locks can be combined with common lock cylinders and door fittings.



www.blueid.net

Bridge Protection System

ATG Access has just launched its brand new Bridge Protection System, specifically designed to ensure civilians are protected from the threat of vehicle-ramming attacks when on bridges. The product has been successfully tested to both the IWA 14 and PAS 68 standards, stopping 7,500 kg vehicles traveling at 30 mph with less than 0.5 m of penetration. The system allows bollards to be fitted into a new, super shallow foundation depth of just 40mm, meaning that minimal excavation is required and the structural integrity of the bridge is maintained. Although the system was tested with the company's Westminster high security bollard, the foundation and socket can also be used with other bollard types and shapes to suit individual security and aesthetic requirements. The system should help to safeguard the general public by both deterring potential perpetrators from attempting to commit these ramming attacks in the first place, and ensuring they are not successful if they do.



www.atgaccess.com

Integrated Video Surveillance Solution with IP Decoding Monitors and VMS

Edmonton Transit Service (ETS) in Alberta, Canada, uses Eizo Duravision FDF2304W-IP monitors together with the Genetec Security Center VMS (video management system) as part of their security framework for buses and the light-rail transit (LRT). They have 18 LRT stations and service about 100,000 boardings per day. A plugin designed by Eizo and Genetec provides enhanced capabilities for the framework through the centralized management of the IP decoding monitors via the Genetec Security Center platform. Older stations were fitted with analog cameras, so there was a lot of installed coax cable. In making the transition from analogue to IP, the Eizo monitors could be connected directly to the network via Ethernet and remotely managed with the Genetec VMS. The monitors do not require a Windows PC or other computer as everything is integrated into the monitor, which additionally reduces the system's vulnerability from a cyber security perspective.



www.eizo.com

Intelligent Porter

Winkhaus bluesmart electronic access organization already covers a particularly wide range of individual solutions. A new intelligent striker designated ETB-IM will soon expand that range. The bluesmart products are electronic access control devices that manage complex tasks and building layouts. Users operate the technology with a key or a card that communicates with the door components without contact. These include, for example, access readers, strikers and flush-mounted lock cylinders or even cabinet locks. The systems can run offline and network virtually, making it much more flexible as offline only systems and much cheaper than online systems. The designs and materials used are chosen for the most varied situations: the high grade handles are made of stainless steel, and the discreet plastic cases in black or white can be tailored into almost any location.



www.winkhaus.com

Innovations at the Big 5 Trade Fair

Uhlmann & Zacher will be represented at the Big 5 trade fair in Dubai for the first time. This is a large construction fair in the Middle East and takes place from 25th to 28th November 2019 in the Dubai World Trade Center. The meeting point for regional and international construction and civil engineering experts, additional events will include the Big 5 Technical Conference and the Big 5 GAIA Awards. The latest product developments from Uhlmann & Zacher will be presented on site where the focus will be on the integration of Bluetooth Low Energy. This innovative technology enables a uniform application around the globe. The team on site will be welcoming visitors to booth 6D245 to give individual advice on the company's products and solutions.



www.uundz.de

ELECTRONIC ACCESS CONTROL

Handling Personal Data

On the Implementation of the GDPR on Electronic Access Control and Digital Locking Technology

Andreas Grauvogl,
Product Manager at
SimonsVoss

One and a half years after the introduction of the GDPR (General Data Protection Regulation), many companies are still unsure what has to be changed. This also applies to the electronic access control and digital lock technology. Andreas Grauvogl, the responsible product manager for the subject of GDPR at SimonsVoss, answers the most important questions of data protection here in connection with the 3060 system and the locking system management (LSM) software from SimonsVoss.



SimonsVoss locking system 3060:
Enabling GDPR compliance for
personal data

Mr Grauvogl, what personal data is stored in the LSM software ?

Andreas Grauvogl: The first and second names, title, address, telephone, e-mail, staff number, user name, department, location/building, date started/left, birthday, cost center and a photo can all be stored. In principle though only the second name and the staff number are so-called compulsory fields, and necessary for the use of LSM. The customer must decide which of the other fields to use, depending upon the operational requirements of the business. Particularly sensitive categories of personal data acc. Article 9 of the GDPR are not saved.

For what purpose is personal data stored?

Andreas Grauvogl: It is fundamentally necessary to assign the identification media used (e.g. a transponder) to a particular person (e.g. employee) in order to make full use of an electronic locking system. Ultimately, data is stored to ensure secure access rights assignment.

How long is personal data stored in the software?

Andreas Grauvogl: Data is maintained at least for the duration of possession of an identification medium (e.g. during employment), because the system needs this data at least for this period. The duration of storage of data, for example in reports, can be altered by the locking system administrator and adapted to the needs of the company.

Is personal data in the software protected from access by third parties?

Andreas Grauvogl: The end user of the locking system and the software is fundamentally responsible for system administration and assigning access rights. And for that reason it is not possible to open the graphic user interface to access the data without a password and the corresponding user rights. All data is secured by a multi-level encryption process in the SimonsVoss 3060 locking system itself. Automatic transfer, usage or processing by SimonsVoss with regard to business operations does not take place.

Can the stored data be made available as a copy on request?

Andreas Grauvogl: As from Version 3.4, provided the appropriate user-rights are available, all data gathered about a person can be made available as a copy by the customer using the export function, for example for the purposes of an audit. This permits the customer to fulfill the requirements for the provision of information acc. Art. 15 GDPR Paragraph 3.

Can personal data be deleted from the software?

Andreas Grauvogl: Personal data can correspondingly be removed from the software by the customer upon request by an affected person acc. Art. 17 GDPR (as from version 3.4) and the relevant database deleted. We have described the procedure step-by-step in our software handbook. In addition, SimonsVoss is preparing its own module on the subject of fulfilling the requirements of the GDPR in the training documentation for the 3060 digital locking and access control system as well as for the LSM Software.

CONTACT

SimonsVoss Technologies
 Unterföhring, Germany
 Tel.: +49 (0)89 9922 8184
 marketing@simons-voss.com
 www.simons-voss.com
 www.allegion.com

Companies under obligation

It has been in force since 25th May 2018 and applies to all companies in the EU that process personal data: the European General Data Protection Regulation (GDPR).

Among other things, the subject of liability and the frequently mentioned associated penalties of up to 20 million Euro or 4% of the previous year's annual turnover has caused uncertainty and a negative atmosphere. The existing interpretation leeway of the EU directives on data protection first of all requires some additional clarification by the authorities and the courts before legal clarity can be obtained for those affected. The directive has a multiple effect on various different company processes. Sticking points are often the technical implementation of data protection, the physical data storage, the storage location, the password protection etc.

"We are in contact with our customers on the subject of data protection in digital locking systems", says Andreas Grauvogl, the product manager responsible at SimonsVoss for the subject of GDPR, "and have established that many companies rely upon the software manufacturer. But in fact, the companies themselves are obliged to make use of the options made available by the manufacturers in order to operate in conformance with the GDPR."

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

Security Products

Video Management Hardware Solutions

Video Storage Solutions (VSS) is a new company that has been launched to provide Milestone's systems integration community with pre-engineered video recording and storage appliances via authorized EMEA based distributors. The wide range of solutions within the VSS catalog includes IP video recording servers, storage and network architecture. The objective of the company is to provide a one-stop-shop for purpose-built, performance-driven and feature-rich appliances that are integrated with Milestone Systems Xprotect and that are able to withstand the taxing video data write load of systems that have a high number of cameras. System integrators can be sure that the product engineering team has certified the bandwidth capabilities of each appliance and that, where applicable, they feature a storage accelerator, which significantly increases storage scalability, performance and reliability.



www.videoappliances.com

Camera Solutions Integrated in Cloud-Based Video Management System



After extensive development processes and testing, all Mobotix IoT camera solutions have now been integrated in Genetec's cloud-based Stratocast video management system. The system (VSaaS) is designed specially for small and medium-sized businesses. Using a PC, laptop, tablet, or smartphone, Stratocast guarantees access to live videos and video recordings that are stored cyber-safe in the cloud. The end customer themselves requires only basic computer expertise, as no computer infrastructure such as additional servers have to be installed on site and no maintenance or updates are required. This makes the solutions affordable and very transparent for the customer. They only pay by usage. The solution allows the customer to circumvent typical server-based problems, such as needing additional IT infrastructure or employees, a lack of storage space, loss of records, and unscalable prices or functionalities.

www.mobotix.com

ACCESS CONTROL

Safe on the Oktoberfest

Access Security for Medical Personnel at the Munich Oktoberfest

The largest public festival in the world, the Oktoberfest, started again in 2019 with the traditional call of "Ozapft is". Around six million visitors came to the Theresienwiese in Munich this year. Some 10,000 people can find a place just in the largest marquee alone. The Aicher Ambulanz Union was one of the organizations responsible for emergency medical services – and AirKey from Evva also had an important role to play: it ensured, amongst other things, that only authorized staff had access to the treatment rooms.



When so many people come together in party mood, things can happen quickly. That's why the organizers go to a lot of trouble to ensure security on site. A valued partner for this since last year is the voluntary team from the Aicher Ambulanz Union. The provision of medical services has belonged to the core business of the organization, along with emergency rescue and patient transport, for over 30 years. International intensive care patient transport, recovery from abroad, mobility services as well as a home emergency call service complete the portfolio. In total, some 950 people are employed.

"The contract from the city of Munich confirms our long-term competence in medical services and

emergency rescue", said CEO Peter Aicher. "Such large events require flexibility and dependability on site, which is why we hired a locking system again this year from Evva."

Unlimited Access Options

Evva makes its AirKey profile cylinders and furniture cylinders available for the two weeks of Oktoberfest. This enables the Aicher Ambulanz Union to secure the central coordination office as well as the staff room and treatment rooms at the Wiesn, and simultaneously grant access to the numerous personnel working there. Forty-three administrative employees each receive a lock card with access to various different zones. They can only open

the doors to one of the thirteen zones that are permitted for those specific employees.

Central Control

Access can be simply blocked if anything should go astray during all the hustle and bustle. The



▲ The numerous personnel working there each receive a lock card, granting them access to various different zones



▲ The system enables the Aicher Ambulanz Union to secure the central control room on the Wiesn as well as the staff and treatment rooms, and simultaneously grant access to all the numerous personnel on site

© – Fotos: Evva



▲ Once again it's "Ozapft is" at the famous Munich Oktoberfest. Since last year, the voluntary unit of the Aicher Ambulanz Union is a trusted partner

access rules, the issuing of access authorization, locking and opening can be centrally administered by the Aicher Group staff from a PC via the AirKey app, which was specially developed by Evva, and the online administration.

The Aicher Group has already been administering around 600 access cards for some years with the AirKey solution. Installation of the necessary cylinders is carried out by the company's own in-house technology team together with an external partner. And since Evva carried out the training, the responsible employees can now administer all access settings themselves.



▲ Evva provides AirKey profile cylinders and AirKey furniture cylinders

CONTACT

Evva Sicherheitstechnik
Krefeld, Germany
Tel.: +49 (0)2151 37360
office-krefeld@evva.com
www.evva.com

Long Shifts Negatively Impact CCTV Operator Health and Effectiveness

Kerry Jones, co-founder and director of Wigan-based independent monitoring center Professional Surveillance Management (PSM) believes that CCTV operators in most UK monitoring centers are working long hours, which can prove detrimental to their performance, reduce the effectiveness of their clients' video security systems and cumulatively have a negative health impact as well. PSM has achieved the Secured by Design 'Police Preferred' specification, and also holds Gold accreditation from the National Security Inspectorate (NSI). Kerry says, "During a 12-hour shift, the fatigue tends to kick in during that stretch between 9 and 12 hours, and that can be dangerous – we might miss a criminal incident because of fatigue. The majority of our shifts cover seven or eight hours, and our operators never work more than four in a row." That's why she is inviting security installers and integrators to try PSM's monitoring services free for 30 days, with no contractual obligations. www.psmrvrc.co.uk

Edge-to-Cloud IIoT Connectivity Solutions

The UC series IIoT Edge Gateways are the first Azure IoT Edge certified Arm-based computers. Integrating Azure



IoT Edge with Moxa's IIoT gateways benefits customers, especially those operating on Linux platforms, in a number of ways. The benefits include secure remote connections to enable deployment in remote locations, connectivity to allow existing brownfield applications to share data with the cloud, and device management and product longevity. The latter ensures that users can deploy, scale, and maintain their IIoT applications. Moxa's IoT Gateway UC-8100A-ME-T computing platform is built around a Cortex-A8 processor and designed for embedded data acquisition applications. It has built-in remote communication capabilities and is Microsoft Azure-ready to facilitate data transfer from field devices to the cloud. The computer comes with dual RS-232/422/485 serial ports and dual 10/100 Mbps Ethernet ports, as well as a Mini PCIe socket to support cellular modules. Due to these flexible interfacing options, this tiny embedded computer is a reliable and secure gateway for data acquisition and processing at field sites as well as a useful communications platform for many other large-scale deployments. Wide-temperature and LTE-enabled models are available. www.moxa.com



Thomas Reimers, Managing Director Windcloud 4.0

GIT SECURITY: Mr. Reimers, your CO₂-neutral and cost-efficient data centers, with which you also offer various cloud services, kill several trend birds with one technological stone. Could you first outline the basic idea of the whole thing?

Thomas Reimers: At Windcloud, the data center is the core of a larger, digital-energetic ecosystem. On the one hand, it constantly consumes large quantities of electricity, which is why we can buy 100 percent green electricity from local producers in the North Frisian region at very favourable conditions. Virtually, we use it to produce computing power, which is currently in demand in increasing quantities. Physically, this electricity is almost completely converted into heat. In contrast to other computer centres, where this waste heat usually goes up in the atmosphere, we refine this heat energy with the help of other producing industrial concepts, which are located directly next door. For example, we can keep greenhouses at the right temperature all year round or gently dry harvested biomass from surrounding fields. And all this in a very economical and sustainable way. This further added value earns money, which we refund to the data center operation and allocate to the kilowatt hours of electricity that were initially fed into the grid. The result is a serious cost advantage that we can pass on to our customers for the most part. Suddenly, we are more competitive because we work sustainably in cycles. I will then be able to

DATA CENTRES

It Doesn't Get Much Greener

CO₂-neutral Data Centres in Northern Germany

Wincloud operates data centres and cloud computing as a sustainable model – with green electricity from renewable energies. In the interview with GIT SECURITY, Managing Director Thomas Reimers explains how this all works.

sell organic products at a low price, and that will change everything.

The green energy comes from wind power and solar energy? Offshore wind turbines are also part of the system. What are the dimensions of this?

Thomas Reimers: In the North Frisia region and the west coast of Schleswig-Holstein, where we operate our sites, there are several gigawatts of green electricity available, primarily from wind and solar power, as well as many large storage facilities. This is the equivalent of several large coal-fired and nuclear power plants that can be replaced. We aim to operate over 12 megawatts of installed computing capacity in the course of 2020. By 2030, we want to have established an IT infrastructure with an equivalent capacity of 300 megawatts. The need for this is clear. And we can offer by far the most exciting overall package of security, price, holistic sustainability and maximum data protection.

You can buy wind power at low prices - what does this business model look like? Sustainability and competitive prices are obviously not a contradiction in terms?

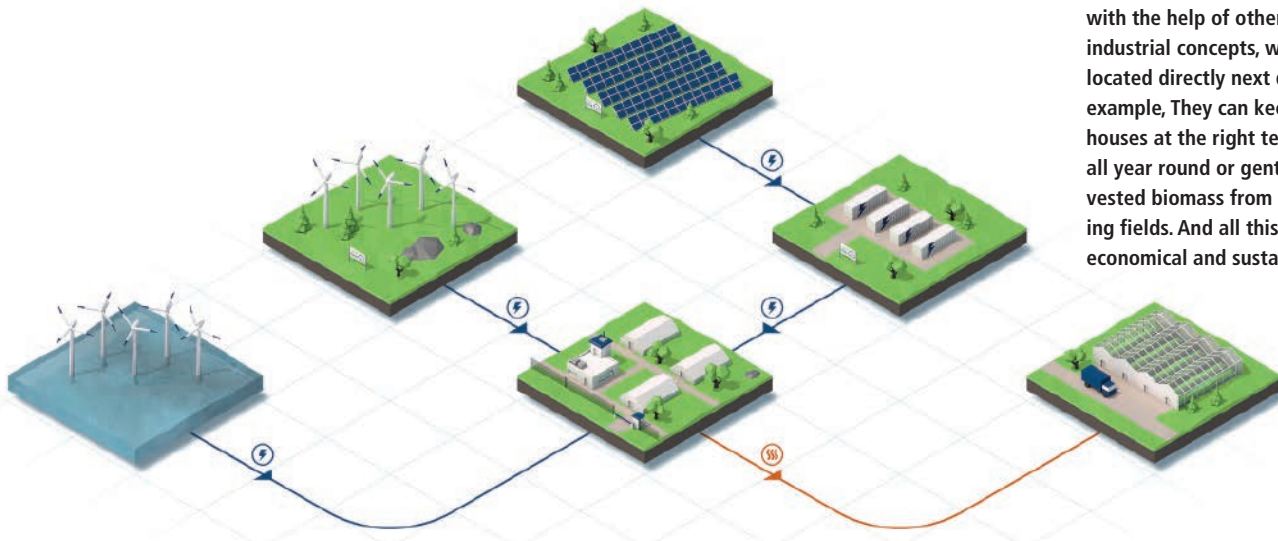
Thomas Reimers: Technically speaking, it would be easy to use local green electricity directly. Unfortunately, the state and a very complicated, completely outdated legal situation put many hurdles in

the way of implementing cost-effective direct use at the place of generating in an economical and low-risk manner. We are working with 16 specialists from the fields of renewable energies, energy law, energy trading and infrastructure planners on two promising concepts that guarantee us an apportionment-free use of electricity with 100 percent availability of supplies. Here we are making great progress. It has to be taken into account that the German electricity price consists of more than 70 percent apportionments such as the EEG apportionment, grid fees and electricity taxes and that only a small part is paid for the actual production of the energy. Since we do not use the grids, we and our customers should not pay these levies either.

The concepts already mentioned for the use of waste heat and other factors that are also used elsewhere contribute to sustainability?

Thomas Reimers: Sector coupling in general and waste heat utilisation in data centres have been big words for years. But actually doing it is not done by anyone on a serious scale. We have put many exciting concepts through their paces. Technically, almost anything is possible. Most approaches ultimately fail because of their economic viability. However, two approaches have made it into the final selection: With the data center waste heat, we now grow microalgae all year round in greenhouses, which are then sold to the food, cosmetics and pharmaceutical industries. In addition, we cultivate industrial hemp on outdoor areas with

Windcloud refines heat energy with the help of other producing industrial concepts, which are located directly next door. For example, They can keep greenhouses at the right temperature all year round or gently dry harvested biomass from surrounding fields. And all this in a very economical and sustainable way



a partner network of regional farmers and then gently dry it with our data centre waste heat. A first drying plant of this kind will be completed in summer 2020. During biomass production and drying, a lot of CO₂ is bound, which has a very positive and measurable effect on our CO₂ footprint.

What does your safety concept look like?

Thomas Reimers: We can already offer the safety level of protection class 3. In addition, we are creating the infrastructural prerequisites to be able to implement protection classes 3+ and 4 in 2020. On the Green TEC Campus, our main location, we are building a multi-level security zone concept that leaves nothing to be desired in terms of access control and fire protection. We do not leave out any common measures of modern IT and net-

work security. In addition, our sites are completely outside the so-called first strike area (nuclear war) and the earthquake probability is 0 percent. At the cyber security level, we also work with very experienced partners. In addition to our own resources, for example, we have entered into a strong partnership with A1 Digital, whose Security Operations Center (SOC) monitors and protects all data streams and accesses to our data centers in real time 24/7 and can ward off any attacks (e.g. DDoS) with the highest possible reliability.

Your data centers themselves are located on former military sites. What are the advantages?

Thomas Reimers: On former Bundeswehr properties, we find a very intact infrastructure in massive

construction. The structural table was built here for eternity. We are now benefiting from this. It is also in the nature of things that these facilities - in which medium-range missiles and other highly sensitive goods were stored before our time - are very well shieldable from the outside world. It is easier to achieve a high level of physical safety than at other locations. This level of safety combined with uncompromising sustainability at an affordable price can only be achieved at a few locations in Germany or Europe.

CONTACT

Wincloud 4.0

Enge-Sande, Germany
 info@wincloud.org
 www.wincloud.org

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

Security Products

Hand-Held Card Reading Device

The CEM Systems S3050 Portable Reader is a lightweight hand-held card reading device for use with the AC2000 access control and security management system. It is designed for ID card validation at temporary entrances or remote sites that have no power, and as a mobile device for random checks within pre-defined zones. A large full colour touch screen provides quick and easy navigation and also provides information about card validity, including cardholder details such as name, date of birth and an image of the cardholder. The cardholder image display on the S3050 reader provides visual verification, which is ideal when mustering is required and for minimising the threat of card sharing. Up to 250,000 card ID's can be held in the reader's database. Card technologies supported include 125kHz HID Proximity, Desfire CSN, HID iclass/iclass SEOS, Picopass Sector and CEM Desfire.



www.cemsys.com

BASF Launches a Virtual Concept Safety Shoe

BASF unveiled "Limitless," a new virtual concept shoe at the A+A fair, highlighting its various material innovations for the footwear segment. BASF completely transformed the safety shoe with a bold concept, at the same time setting standards in comfort, design flexibility, lightweight cushioning and durability. Since trips and falls are major causes of workplace accidents, laces are removed in the design to improve workers' safety. Moreover, a closed, lace-less design offers better protection from spills and allows users to slip in and out of their shoes faster. A knitted upper made from Freeflex fiber is combined with a protective overlay made from Haptex, BASF's premium solvent-free artificial leather. Special bands engineered from Freeflex add further stability and enhanced abrasion resistance. BASF's innovative technologies also enabled the industry's first transparent toe cap made from Elastollan. This alternative to a metal toe cap offers completely new design possibilities to the safety footwear industry.



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E-Mail: contact@inspect-online.com

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Security Management



deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification;
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deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification;
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ALARM MANAGEMENT

Alarm Management



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

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

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Funkwerk video systeme GmbH
Thomas-Mann-Str. 50 · D-90471 Nürnberg
Tel. +49(0)911/75884-0
Fax +49(0)911/75884-100
info@funkwerk-vs.com · www.funkwerk.com
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NSC Sicherheitstechnik GmbH
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Time & Attendance, Access Control, Biometrics, Plant Data Collection, Staff Scheduling, SAP Communication

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PCS Systemtechnik GmbH
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intus@pcs.com · www.pcs.com
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Touchless Biometric Systems AG
Rietbrunnen 2 · CH-8808 Pfaeffikon, Switzerland
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info@gitverlag.com · www.gitverlag.com

Managing Directors

- Sabine Steinbach
- Dr. Guido F. Herrmann

Publishing Directors

- Dr. Heiko Baumgartner
Tel.: +49 (0) 6201/606-703
heiko.baumgartner@wiley.com
- Steffen Ebert
Tel.: +49 (0) 6201/606-709
steffen.ebert@wiley.com

Sales Managers

- Regina Berg-Jauernig
Tel.: +49 (0) 6201/606-704
regina.berg-jauernig@wiley.com
- Miryam Reubold
Tel.: +49 (0) 6201/606-127
mirreubold@wiley.com
- Dr. Michael Leising
Tel.: +49 (0) 36 03/8942800
leising@leising-marketing.de

Wiley GIT Reader Service

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

Editorial

- Lisa Schneiderheinze
Tel.: +49 (0) 6201/606-738
lschneider@wiley.com
- Matthias Erler
Tel.: +49 (0) 6723/9 94 99 82
matthias.erler@wiley.com

Editorial Assistant

- Eva Kukatzki
Tel.: +49 (0) 6201/606-761
eva.kukatzki@wiley.com

Production

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

European Representatives

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

Bank Account

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

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WILEY



1. Right now:

I am on the flight back from visiting the Wiley team in Kolkata, India.

2. At 7 o'clock in the morning: I am already on my way to work. I start my day early, usually with light stretching and meditation. Then I check my emails and plan for what I will get done that day. I get ready quickly, have breakfast, and head out to my martial arts class.

3. The natural talent I would like to be gifted with is: Eidetic memory – although I'd settle for the ability to remember people's names.

4. Three things that I am most grateful for in life are: My daughter, my wife, and my job.

5. The best decision in my career so far is: To always choose my next job based on where I want to end up and not where I want to be.

6. The best compliment anyone has ever given to me is:
"You're the best dad ever."

7. If my life was a movie, I would be portrayed by:
I'd say: Matt Damon. My wife says: Robin Williams

8. I am entering the wrestling arena and while the crowd is calling out my wrestling name SMACK, I can hear the 'Immigrant Song' by Led Zeppelin playing!

9. At the most horrible job I ever had: I have worked my entire life. In high school I earned money by picking up after some of the finest canines in New York City. While up there in terms of dirty jobs it was quite lucrative.

10. The biggest challenge for me/my industry at the moment is the rapid pace of innovation and change. In the next four years more applications will be developed than in the previous forty. At the same time the number of cyber threats is growing at an alarming pace. Industries are being disrupted by new technologies left and right. In order to be successful today we must leverage technology and relentlessly innovate to drive business forward.

11. The last thing/gadget I bought was a robot dog for my daughter.

12. As a child I was teased, because I had freckles and bright red curly hair and also, I was short.

Name: Sean D. Mack
Position, Company: CIO & CISO, Wiley
Date of Birth: December 28
Hometown: New York, NY
Favourite homemade dish: I love to cook! Last Christmas I made Lobster Thermador for Christmas dinner. The best.

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